

# MySQL Server Version Reference

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## Abstract

This document provides a single resource for summary information about MySQL server, including specific information on changes between different versions for options and variables, and summary tables showing the availability across MySQL series for several server features, such as operators and functions, [INFORMATION\\_SCHEMA](#) and Performance Schem tables, sys schema objects, keywords and reserved words, and build options.

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# Chapter 1 mysqld Options and Variables

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The following table shows all the options and variables available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Intr:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Depr:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- **Cmd:** Whether the item is valid on the command line.
- **Cnf:** Whether the item is valid within a configuration file.
- **Srvr:** Whether the item is a server system variable.
- **Stat:** Whether the item is a status variable.
- **Scp:** The scope of the item (session-specific, global, or both). A value of [Varies](#) indicates that the scope varies across versions.
- **Dyn:** Whether the item is dynamically settable while the server is running. A value of [Varies](#) indicates that this attribute varies across versions.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 1.1 Option and Variable Reference**

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
abort-slave-event-count		8.0.29		Yes	Yes					Yes	Yes	Yes			
Aborted_clients							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Aborted_connects							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Acl_cache_items_count							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
active_roles_count	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
admin_address	8.0.14			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
admin_port	8.0.14			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
admin_ssl	8.0.21	8.0.26		Yes	Yes						Some	Yes	Yes	Yes	
admin_ssl_ca	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_capath	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_cert	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_cipher	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_crl	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_crlpath	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_key	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_ciphersuites	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
admin_ssl_version	8.0.21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
allow-suspicious-udfs				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
ansi				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
audit_log	5.7.9, 8.0.11			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
audit_log_buffer_size	5.7.9, 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_compression	5.7.21, 8.0.11			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
audit_log_connection_collation	5.7.9, 8.0.11	8.0.34		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_current_session	5.7.9, 8.0.11					Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit_log_current_size	5.7.9, 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_database	8.0.33			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
Audit_log_direct_writes							Yes	Global	No			Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
audit_log_disable	5.7.37 8.0.28			Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes	Yes
audit_log_encryption	5.7.21 8.0.11			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
Audit_log_event_max_drop_size	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit_log_events	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit_log_events_filtered	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit_log_events_lost	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit_log_events_written	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_exclude_accounts	5.7.9 8.0.11	8.0.34		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_file	5.7.9 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_id	5.7.13 8.0.11					Yes		Both	No	Some	Yes	Yes	Yes	Yes	Yes
audit_log_flush	5.7.9 8.0.11					Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_flush_interval_seconds	8.0.34		Yes	Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
audit_log_format	5.7.9 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_format_unicode_ambiguous	5.7.35 8.0.26			Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes	Yes
audit_log_exclude_accounts	5.7.9 8.0.11	8.0.34		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_max_size	8.0.26		Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
audit_log_password_history_keeps_days	8.0.17		Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
audit_log_policy	5.7.9 8.0.11	8.0.134		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_prune_seconds	8.0.24		Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
audit_log_read_buffer_size	5.7.21 8.0.11			Yes	Yes	Yes		Varies	Varies	Some	Yes	Yes	Yes	Yes	Yes
audit_log_rotate_on_size	5.7.9 8.0.11			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_statement_policy	5.7.9 8.0.11	8.0.34		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_strategy	5.7.9 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Audit_log_total_size	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit_log_write_waits	5.7.9 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
authentication_kerberos_fido_cred	8.0.27 8.2.0	8.0.35		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	
authentication_kerberos_service_key_tab	8.0.26			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
authentication_kerberos_principal	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_sasl_supported_Yes_1_Yes_1	8.0.21			Yes	Yes	Yes	Yes	Global	No		Some	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap_1_Yes_1_Yes_1_Yes_1	5.7.19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes			Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_policy	8.0:27			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
authentication_webauth	5.7-19 8.0.11			Yes	Yes	Yes		Global	Yes				Yes	Yes	Yes
authentication_windows	5.7-19 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
authentication_windows	5.7-19 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
auto_generate_certs	5.7-5			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
auto_increment_increment				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
auto_increment_offset				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
autocommit				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
automatic_sp_privileges				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
avoid_temporary_upgrade	5.7-6 5.7.6	5.6-24 5.7.6	upgrad	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
back_log				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
basedir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
big_tables				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
bind_address				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_cache_disk_use							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_cache_use							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog-checksum				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
binlog_checksum				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_direct_non_transactional_updates				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog-do-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
binlog_encryption	8.0.14			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
binlog_error_action	5.7.6			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_expire_logs_avg_row_size	8.0.29			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
binlog_expire_logs_seconds	8.0.1			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
binlog_format	8.0.34			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_group_commit_sync_delay	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_group_commit_sync_delay_count	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_group_commit_sync_no_delay_count	5.7.6			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_ignore_db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
binlog_max_flush_queue_time	5.7.19			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_order_commits				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_row_event_integrity	8.0.14			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
binlog_row_event_max_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_row_image				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_row_metadata	8.0.1			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
binlog_row_value_options	8.0.3			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
binlog_rows_query_log_events				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_stmt_cache_disk_use							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_stmt_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_stmt_cache_use							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
<a href="#">binlog_transaction_compression</a>	8.0.20			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">binlog_transaction_compression_level_size</a>	8.0.20			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">binlog_transaction_dependency_history_size</a>	5.7.22 8.0.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
<a href="#">binlog_transaction_dependency_tracking</a>	5.7.22 8.0.1	8.0.35 8.2.0		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	
<a href="#">binlogging_innodb_double_write</a>	5.7.5	5.6.22 5.7.6		Yes	Yes	Yes		Both	Yes						
<a href="#">block_encryption_mode</a>	5.7.4			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">bootstrap</a>	5.7.6			Yes	Yes					Yes					
<a href="#">build</a>	8.0.31					Yes		Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">bulk_insert_buffer_size</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Bytes_received</a>							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Bytes_sent</a>							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">cached_sha2_password_autogenerate_rsa_public_key</a>	8.0.4			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
<a href="#">cached_sha2_password_digest_rounds</a>	8.0.24			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">cached_sha2_password_private_key_path</a>	8.0.3			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
<a href="#">cached_sha2_password_public_key_path</a>	8.0.3			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
<a href="#">Cached_sha2_password_rsa_public_key</a>	8.0.4					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_client</a>						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_client_handshake</a>	8.0.35, 8.2.0			Yes	Yes					Yes	Yes	Yes	Yes		
<a href="#">character_set_connection</a>						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_database</a>						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_filesym</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_results</a>						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_server</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_set_system</a>						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">character_sets_dir</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">check_proxy_users</a>	5.7.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">chroot</a>				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">clone_autotune_concurrency</a>	8.0.17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">clone_checkpoint_ddl</a>	8.0.17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">clone_checkpoint_size</a>	8.0.17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">clone_checkpoint_timeout</a>	8.0.17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">clone_delay_after_data_dir</a>	8.0.29			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">clone_delay_after_network_failure</a>	8.0.24			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">clone_enable_compression</a>	8.0.17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
clone_8.0-17	ok	concurrency		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0-17		data_bandwidth		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0-17		network_bandwidth		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0-14		ca		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0-14		cert		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0-14		key		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0-17		donor_list		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
collation_connection						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
collation_database						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
collation_server				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Com_admin_commands							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_db_upgrade							Yes	Both	No	Yes					
Com_alter_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_8.0-3		resource_group					Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_alter_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_tablespace							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_user_default_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_analyze							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_assign_to_keycache							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_begin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_binlog							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_call_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_change_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_change_master							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_change_5.7-3		repl_filter					Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_change_8.0-23		replication_source					Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_check							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_checksum							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_clone_8.0-2							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_create_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_resource_group							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_create_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_create_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_udf							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_dealloc_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_delete_multi							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_do							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_resource_group							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_drop_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_drop_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_empty_query							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_execute_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_escape_other							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_flush							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_get_diagnostics							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_grant							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_grant_roles							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_grant_replication_start							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_grant_replication_stop							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_ha_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_ha_open							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_ha_read							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_help							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_insert							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_insert_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_install_component							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_install_plugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_kill							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_load							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_lock_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_optimize							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_preload_keys							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_prepare_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_purge							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_purge_before_date							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_release_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_rename_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_rename_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_repair							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_replace							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_replace_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_reset	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_reset_slave	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_reset							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_resignal							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_restart	8.0.4						Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Com_revoke							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_revoke_all							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_revoke_roles							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_rollback_to_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_set_option							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_set_resource_group	8.0.3						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_set_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_show_authors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_binary_log_status							Yes	Both	No				Yes	Yes	Yes
Com_show_binlog_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_binlogs							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_show_charsets							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_collations							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_contributors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_func							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_proc							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_user	5.7.6						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_databases							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_engine_logs							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_engine_mutex							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_engine_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_errors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_fields							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_function_code							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_function_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_grants							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_keys							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_innodb_status	8.2.0						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_show_ndb_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_open_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_plugins							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_privileges							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_procedure_code							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_procedure_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_processlist							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_profile							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_profiles							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_relaylog_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_replica_status	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_show_replicas	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_show_slave_hosts							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_show_slave_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_show_slave_status_nonblocking	5.7.6						Yes	Both	No						
Com_show_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_show_storage_engines							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_table_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_triggers							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_variables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_warnings							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_down	5.7.9						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_signal							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_slave_start							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_slave_stop							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_stmt_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_execute							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_fetch							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_reprepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_reset							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_send_long_data							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_truncate							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_uninstall_component							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_uninstall_plugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_unlock_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_update_multi							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_end							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_recover							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_start							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
completion_type				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
component_masking.delay_on_flush	Yes	Yes	Yes	Yes	Yes	Yes		Global	No					Yes	Yes
component_masking.masking_database	Yes	Yes	Yes	Yes	Yes	Yes		Global	No					Yes	Yes
component_scheduler	8.0.34			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Compression	8.0.18						Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Compression_algorithm	8.0.18						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Compression_level	8.0.18						Yes	Global	No		Some	Yes	Yes	Yes	Yes
concurrent_insert				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
connect_timeout				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Connection_control_delay_generated	5.7.17 8.0.1						Yes	Global	No	Some	Yes	Yes	Yes	Yes	Yes
connection_control_failed_connections_threshold	5.7.17 8.0.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
connection_control_max_connection_delay	5.7.17 8.0.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
connection_control_max_connection_delay_log_bytes	5.7.17 8.0.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Connection_errors_accept							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_internal							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_max_connections							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_peer_address							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_select							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_tcpwrap							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
connection_memory_chunk_size	8.0.28			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
connection_memory_limit	8.0.28			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
Connections							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
console				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
core_file				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
core_file						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
create_table_in_listen_thread	8.0.14			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
Created_tmp_disk_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Created_tmp_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Created_tmp_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
cte_max_recursion_depth	8.0.3			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
Current_s_ca	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_capath	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_cert	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_cipher	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_ciphersuites	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_crl	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_crlpath	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_key	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Current_s_version	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
daemon_memory_enabled_enable_binlog	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
daemon_memory_enabled_engine_name	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
daemon_memory_enabled_engine_name_parallel	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
daemon_memory_enabled_optimizations	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
daemon_memory_size		8.0.22		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
daemon_memory_size		8.0.22		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
daemon_memory_size	5.7.6			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
datadir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
date_format		8.0.3				Yes		Global	No	Yes					
datetime_format		8.0.3				Yes		Global	No	Yes					
ddl-rewriter	8.0.16			Yes	Yes						Some	Yes	Yes	Yes	Yes
debug				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
debug_sync						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
debug-sync-timeout				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
default-authentication-plugin		5.7.2		Yes	Yes										
default_authentication_plugin	5.7.2	8.0.27		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
default_collation_for_utf8mb4	8.0.11			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
default_password_lifetime	5.7.4			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
default_storage_engine				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
default_table_encryption	8.0.16			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
default-time-zone				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
default_tmp_storage_engine				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
default_week_format				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
defaults-extra-file				Yes						Yes	Yes	Yes	Yes	Yes	Yes
defaults-file				Yes						Yes	Yes	Yes	Yes	Yes	Yes
defaults-group-suffix				Yes						Yes	Yes	Yes	Yes	Yes	Yes
delay_key_write				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_error	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
delayed_insert_limit	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_insert_threads	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
delayed_insert_timeout	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
delayed_queue_size	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_write	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
<a href="#">Deprecated_use_i_s_processlist_count</a>							Yes	Global	No					Yes	Yes
<a href="#">Deprecated_use_i_s_processlist_last_time_checked</a>							Yes	Global	No					Yes	Yes
<a href="#">des-key-file</a>		5.7.6	8.0.3	Yes	Yes					Yes					
<a href="#">disabled_partition_engine_check</a>	5.7.17	5.7.17		Yes	Yes					Some					
<a href="#">disabled_storage_engine</a>	5.7.8			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">disconnect_on_expired_password</a>	5.7.1			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">disconnect_slave_event_count</a>		8.0.29		Yes	Yes					Yes	Yes	Yes			
<a href="#">div_precision_increment</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">dragon_log_error_files</a>	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
<a href="#">dragon_status</a>	8.0.12						Yes	Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">early_plugin_load</a>	5.7.11			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
<a href="#">end_markers_in_json</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">enforce_gtid_consistency</a>				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">enterprise_encryption_maximum_key_size</a>	8.0.30			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">enterprise_encryption_legacy_key</a>	8.0.30			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">eq_range_index_divert</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">error_count</a>						Yes		Session	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Error_8.0.22_buffered_bytes</a>	8.0.22						Yes	Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">Error_8.0.22_buffered_events</a>	8.0.22						Yes	Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">Error_8.0.22_expired_events</a>	8.0.22						Yes	Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">Error_8.0.22_latest_write</a>	8.0.22						Yes	Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">event_scheduler</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">execute_gtid_compression_period</a>	5.7.5	5.7.6		Yes	Yes	Yes		Global	Yes						
<a href="#">exit-info</a>				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">expire_logs_days</a>		8.0.3		Yes	Yes	Yes		Global	Yes	Yes	Yes				
<a href="#">explain_format</a>	8.0.32			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">explain_json_format_size</a>				Yes	Yes	Yes		Both	Yes					Yes	Yes
<a href="#">explicit_defaults_for_timestamp</a>	5.6.6			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">external-locking</a>				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
external_user						Yes		Session	No	Yes	Yes	Yes	Yes	Yes	Yes
federated				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
Firewall_rules_access_denied	5.7.9, 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Firewall_rules_access_granted	5.7.9, 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Firewall_rules_cached_entries	5.7.9, 8.0.11						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
flush				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flush_commands							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
flush_time				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
foreign_key_checks						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ft_boolean_syntax				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ft_max_word_len				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ft_min_word_len				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ft_query_expansion_limit				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ft_stopword_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
gdb				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
general_log				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
general_log_file				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
general_log_random_password_length	8.0.18			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
Global_connection_memory_limit	8.0.28						Yes	Global	No		Some	Yes	Yes	Yes	Yes
global_connection_memory_limit_warning	8.0.28			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
global_connection_memory_limit_warning_factor	8.0.28			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
Gr_all_consensus_proposals_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_all_consensus_time_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_certification_garbage_collector_timeout							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_certification_garbage_collector_timeout_warning							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_consensus_bytes_received_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_consensus_bytes_sent_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_control_messages_sent_bytes_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_control_messages_sent_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_control_messages_sent_roundtrip_time_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_data_messages_sent_bytes_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_data_messages_sent_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_data_messages_sent_roundtrip_time_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_empty_consensus_proposals_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_extended_consensus_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_flow_control_throttle_active_count							Yes	Global	No			Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Gr_flow_control_throttle_count							Yes	Global	No			Yes	Yes	Yes	Yes
Gr_flow_control_throttle_last_throttle_time_sum							Yes	Global	No			Yes	Yes	Yes	Yes
Gr_flow_control_throttle_time_sum							Yes	Global	No			Yes	Yes	Yes	Yes
Gr_last_consensus_end_timestamp							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_total_messages_sent_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_transactions_consistency_after_sync_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_transactions_consistency_after_sync_time_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_transactions_consistency_after_timeout_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_transactions_consistency_after_timeout_time_sum							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_transactions_consistency_before_sync_count							Yes	Both	No			Yes	Yes	Yes	Yes
Gr_transactions_consistency_before_sync_time_sum							Yes	Both	No			Yes	Yes	Yes	Yes
group_concat_max_len				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_advertise_recovery_end_timestamp	8.0-21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_advertise_recovery_start_timestamp	5.7-17, 5.7-21, 8.0-4			Yes	Yes	Yes		Global	Yes	Some					
group_replication_advertise_recovery_time_sum	5.7-17, 8.0-0			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_annotate_incremental_checksums	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_annotate_incremental_checksums_time_sum	8.0-16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-3			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-27					Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-14			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-24, 8.0-12			Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_apply_group_checksums_time_sum	8.0-2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
group_replication_force_members	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_group_name	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_group_size	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_group_system_block_size	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_ip_allowlist	8.0-22			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_ip_blacklist	5.7-17	8.0-22		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes		
group_replication_load_balance_mode	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_member_connect_timeout	8.0-13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_member_host_name	5.7-20, 8.0.2			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_message_checksum_size	8.0-16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_parallel_slave_threads	8.0-27			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_parallel_workers	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_preemptive_cutover				Yes	Yes	Yes		Global	Yes						Yes
group_replication_preemptive_cutover_rows_threshold				Yes	Yes	Yes		Global	Yes						Yes
group_replication_primary_member	8.0-4						Yes	Global	No	Yes	Yes	Yes	Yes		
group_replication_recover_compact_at	5.7-17	8.0-34		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	
group_replication_recover_compression_algorithm	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_recover_get_public_key	8.0-4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_recover_public_key_path	8.0-4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_recover_reconnect_interval	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_retry_count	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cipherpath	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cert	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cipher	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cipherlist	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cipherpathlist	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_key	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_verify_splice	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_ciphersuites	8.0-19			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_recover_ssl_version	8.0-19			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cipherlist	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_recover_ssl_cipherlist_compress	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_slave_parallel_mode	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_slave_parallel_workers	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_slave_parallel_workers_threads	5.7-17			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_thread_source	8.0-21			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
group_replication_transaction_size_limit	5.7.19			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_unsafe_checksum_verbosity	5.7.19, 8.0.2			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_vote_change_timeout	8.0.26, 8.3.0			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
gtid_executed						Yes		Varies	No	Yes	Yes	Yes	Yes	Yes	Yes
gtid_executed_compression_expiration	5.7.6			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gtid_mode				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
gtid_next						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gtid_owned						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
gtid_purged						Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Handler_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_discover							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_external_lock							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_mrr_init							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_first							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_key							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_last							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_next							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_prev							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_rnd							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_rnd_next							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_savepoint_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_write							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
have_compress						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_crypt	5.7.6	8.0.3				Yes		Global	No	Yes					
have_dynamic_loading						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_geometry						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_openssl	8.0.26					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
have_profiling	5.6.8					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_query_cache	5.7.20					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_rtree_keys						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_ssl	8.0.26					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
have_table_tenant_timeout	5.7.4					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
have_symlink						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
help				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
historical_generation_max_size	8.0.2			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
host_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
hostname						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
identity						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ignore_builtin_innodb	5.5.22	8.0.3		Yes	Yes	Yes		Global	No	Yes					
ignore-db-dir	5.7.16			Yes	Yes					Yes					
ignore_db_dir	5.7.16					Yes		Global	No	Yes					
immediate_server_version	8.0.14					Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
information_schema_statistics	8.0.3			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
init_connect				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
init_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
init_slave_ca	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
init_slave	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
initiate	5.7.6			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
initiate-insecure	5.7.6			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
innodb	5.6.21, 5.7.5			Yes	Yes					Yes	Yes	Yes	Yes		
innodb_adaptive_flushing				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_flushing_0				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_hash_index				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_hash_index_parts	5.7.8			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_max_concurrent_olap_index				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_add_dropped_index_files	5.6.13	5.7.4		Yes	Yes	Yes		Global	No						
innodb_api_block_commit_intervals	8.0.22			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes		
innodb_api_disable_rowlock	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
innodb_api_enable_binlog	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
innodb_api_enable_md_recording	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
innodb_api_enable_level_1	8.0.22			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes		
innodb_autoextend_increment				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_autoinc_lock_mode				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_available_undo_logs	5.7.19	8.0.2					Yes	Global	No	Yes					
innodb_background_drop_tables	5.7.10			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
InnoDB_buffer_pool_bytes_data							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_buffer_pool_bytes_dirty							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_buffer_pool_resize	5.7.5			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_shutdown				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_status				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_status_page	5.7.2			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_dump_status							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_filename				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_io_error_files	8.0.14			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_buffer_pool_io_status				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_latch_status				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_latch_status_page				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_load_status							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_data							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_dirty							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_flushed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_free							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_latched							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_misc							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_total							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_evicted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_rnd							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_resize_status	5.7.5						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_resize_status_copy	8.0.31						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Innodb_buffer_pool_resize_status_progress	8.0.31						Yes	Global	No		Some	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_wait_free							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_max_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_status				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_checkpoint_disable	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_checksum_algorithm				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_checksums	5.6.3			Yes	Yes	Yes		Global	No	Yes					
innodb_cmp_per_index_enabled				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_commit_concurrency				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compress_debug	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_features_threshold_pct				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_level				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_pages_per_max				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_concurrency_tickets				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_data_file_path				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_fsyncs							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_data_home_dir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_pending_fsyncs							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_pending_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_pending_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_read							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_data_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_dblwr_pages_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_dblwr_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_buffer_size	8.0.27			Yes	Yes	Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_log_crash_reset_debug	8.0.31			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_threads	8.0.27			Yes	Yes	Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_lock_detect	5.7.15			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_dedicated_server	8.0.3			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_default_row_format	5.7.9			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_directories	8.0.4			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_disable_resize_buffer_pages_debug	5.7.6			Yes	Yes	Yes		Global	Yes	Yes					
innodb_doublewrite_disable_sort_cache				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_doublewrite				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_doublewrite_batch_size	8.0.20			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_doublewrite_dir	8.0.20			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_doublewrite_files	8.0.20			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_doublewrite_pages	8.0.20			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_doublewrite_end_and_innodb_doublewrite	8.0.22			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_doublewrite_fast_shutdown				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_file_make_page_dirty_debug				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite_file_format	5.7.7			Yes	Yes	Yes		Global	Yes	Yes					

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
<a href="#">innodb_file_format_checkpoint</a>		5.7.7	format_checkpoint	Yes	Yes	Yes		Global	No	Yes					
<a href="#">innodb_file_format_max</a>		5.7.7	format_max	Yes	Yes	Yes		Global	Yes	Yes					
<a href="#">innodb_file_per_table</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_fill_factor</a>		5.7.5		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_flush_log_at_timeout</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_flush_log_at_trx_commit</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_flush_method</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_flush_neighbors</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_flush_sync</a>		5.7.8		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_flushing_avg_pages</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_force_load_consistency</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_force_recovery</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_io_capacity</a>		8.0.13	sync_threshold	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_aux_table</a>						Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_cache_size</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_enable_diag_print</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_enable_stopword</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_max_token_size</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_min_token_size</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_num_word_optimize</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_result_cache_limit</a>		5.7.2		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_server_stopword_table</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_sort_pll_degree</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_total_cache_size</a>		5.7.2		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_ft_user_stopword_table</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">InnoDB_have_atomic_builtins</a>							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_io_capacity_max</a>		8.0.18	flush_page_size	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">innodb_io_capacity_max</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_io_capacity_max</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_large_prefix</a>		5.7.7		Yes	Yes	Yes		Global	Yes	Yes					
<a href="#">innodb_limit_optimizer_invert_index</a>				Yes	Yes	Yes	debug	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_lock_wait_timeout</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_locks_unsafe_for_binlog</a>		5.6.3		Yes	Yes	Yes		Global	No	Yes					
<a href="#">innodb_log_buffer_size</a>				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_log_checkpoint_fuzzy_no_flush</a>		8.0.13		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">innodb_log_checkpoint_no_flush</a>		5.7.2		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">innodb_log_checkpoint_sync</a>		5.7.8	5.7.9	Yes	Yes	Yes		Global	Yes						
<a href="#">innodb_log_checksum_algorithm</a>		5.7.19		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_log_compressed_pages				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_8.0.130_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_8.0.130_in_Yes				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_group_home_Yes				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.111_spin_cpu_Yes				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_8.0.111_spin_cpu_Yes				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_8.0.111_wait_for_Yes				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
InnoDB_log_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.14_log_write_ahead_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_log_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.122_writer_threads_Yes				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
InnoDB_log_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lru_scan_depth_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_pages_pct_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_pages_pct_wm_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_purge_lag_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_purge_lag_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_max_undo_log_size_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.6_merge_threshold_Yes				Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_disable_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_enable_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_reset_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_reset_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_num_open_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.9_innoma_interleave_Yes				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_pct_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_time_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_online_alter_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_open_files				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
innodb_optimize_fulltext_Yes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_optimize_fulltext_Yes				Yes	Yes	Yes		Session	Yes						
InnoDB_os_log_fsyncs							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_os_log_pending_fsyncs							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_os_log_pending_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_os_log_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.4_page_cleaners_Yes				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_page_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_page_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
InnoDB_pages_created							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_pages_read							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_pages_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_parallel_read_threads	8.0.14			Yes	Yes	Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
innodb_print_all_deadlocks				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_print_ddl_logs	8.0.3			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_purge_batch_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_purge_rseg_truncate_frequency	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_purge_threads				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_random_read_ahead				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_ahead_threshold				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_io_threads				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_only			Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_redo_log_archive_dir	8.0.17			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_redo_log_capacity	8.0.30			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_capacity_resized	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_checkpoint_lsn	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_current_lsn	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_enabled	8.0.21						Yes	Global	No		Some	Yes	Yes	Yes	Yes
innodb_redo_log_encrypt	8.0.1			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
InnoDB_redo_log_flushed_to_disk_lsn	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_logical_size	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_physical_size	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_read_only	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_resize_status	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_redo_log_uuid	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
innodb_replication_disabled			Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_rollback_on_timeout			Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_rollback_segments			Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_row_lock_current_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_row_lock_time							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_row_lock_time_avg							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_row_lock_time_max							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_row_lock_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_rows_deleted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_rows_inserted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_rows_read							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_rows_updated							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_saved_page_number				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_scan_dir	8.0.2		8.0.4	Yes	Yes	Yes		Global	No						
innodb_segment_reserve_factor	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_sort_buffer_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_spin_wait_delay				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_spin_wait_pause_multiple	8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_stats_auto_reset				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_include_tablespace	5.7.17 8.0.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb_stats_method				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_on_metadata				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_persistent				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_persistent_sample_pages				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_sample_pages	5.6.3			Yes	Yes	Yes		Global	Yes	Yes					
innodb_stats_transient_sample_pages				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb-status-file				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
innodb_status_output	5.7.4			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_status_output_locks	5.7.4			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_strict_mode				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_support_xa	5.7.10			Yes	Yes	Yes		Both	Yes	Yes					
innodb_sync_array_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_sync_debug	5.7.8			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_sync_spin_loops				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
InnoDB_system_rows_deleted	8.0.19						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_system_rows_inserted	8.0.19						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_system_rows_read	8.0.19						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_system_rows_updated	8.0.19						Yes	Global	No		Some	Yes	Yes	Yes	Yes
innodb_table_locks				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_tmp_data_files_path	5.7.1			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_tmp_tablespace_dir	8.0.13			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_thread_concurrency				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_thread_sleep_delay				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_tmpdir	5.7.11			Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
InnoDB_truncated_status_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_trx_purge_views_only_debug				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_trx_rseg_n_slides				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_undo_directory				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_undo_log_encrypt	8.0.1			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_undo_log_truncate	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_undo_logs	5.7.19	8.0.2		Yes	Yes	Yes		Global	Yes	Yes					
innodb_undo_tablespaces	5.7.21			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
	8.0.4														
InnoDB_no_tablespaces_active	8.0.14						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_no_tablespaces_explicit	8.0.14						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_no_tablespaces_implicit	8.0.14						Yes	Global	No		Some	Yes	Yes	Yes	Yes
InnoDB_no_tablespaces_total	8.0.14						Yes	Global	No		Some	Yes	Yes	Yes	Yes
innodb_optimize_fdatasync	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_use_native_aio				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_use_sys_dir_for_metadata	5.6.3	5.7.4		Yes	Yes	Yes		Global	No						
innodb_validate_tablespaces_path	8.0.21			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_write_io_threads				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
insert_id						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
install				Yes						Yes	Yes	Yes	Yes	Yes	Yes
install-manual				Yes						Yes	Yes	Yes	Yes	Yes	Yes
interactive_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
interactive_tmp_disk_page_engine	5.7.5	8.0.16		Yes	Yes	Yes		Global	Yes	Yes	Some				
interactive_tmp_mem_storage_engine	8.0.2			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
join_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keep_files_on_create				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_not_flushed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_unused							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_used							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
key_buffer_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_age_threshold				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_block_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_division_limit				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Key_read_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
keyring_keys_cmk_id	5.7.19			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
	8.0.11														
keyring_keys_conf_file	5.7.19			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
	8.0.11														

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
keyring- sys_data_files	5.7-19, 8.0-11			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
keyring- sys_region	5.7-19, 8.0-11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
keyring- encrypted_files_data	5.7-21, 8.0-11	8.0-34		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	
keyring- encrypted_files_passwords	5.7-21, 8.0-11	8.0-34		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	
keyring- file_data	5.7-11, 8.0-34			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	
keyring- hashicorp_auth_path	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_ca_path	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_caching	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_commit_auth_path	8.0-18			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_commit_ca_path	8.0-18			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_commit_caching	8.0-18			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_commit_role	8.0-18			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_commit_serverurl	8.0-18			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_commit_store_path	8.0-18			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_role_id	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_serverurl	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_serverurl	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- hashicorp_store_path	8.0-18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring- migration- destination	5.7-21, 8.0-4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring- migration- from- component				Yes	Yes										Yes
keyring- migration- host	5.7-21, 8.0-4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring- migration- password	5.7-21, 8.0-4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring- migration- port	5.7-21, 8.0-4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring- migration- socket	5.7-21, 8.0-4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
keyring_migrationsource	5.7-21, 8.0.4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring_migration-to-component	8.0-24			Yes	Yes						Some	Yes	Yes	Yes	Yes
keyring_migration-user	5.7-21, 8.0.4			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring_8.0.22-8.0.31_certificate	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_compartment	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_cryptopoint	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_key_file	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_key_fingerprint	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_management_endpoint	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_master_key	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_secrets_endpoint	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_thruancy	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_user	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_vaults_endpoint	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_8.0.22-8.0.31_virtual_key	8.0.22-8.0.31			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	
keyring_5.7.12-8.0.11_kv_conf_dir	5.7.12-8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
keyring_5.7.21-8.0.4_operations	5.7.21-8.0.4					Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
language	5.5.0			Yes	Yes	Yes		Global	No	Yes		Yes	Yes	Yes	
large_files_support						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
large_page_size						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
large-pages				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
last_insert_id						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Last_query_cost							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Last_query_partial_plans							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
lc-messages				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
lc-messages-dir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
lc_time_names				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
license						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
local_infile				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
local-service				Yes						Yes	Yes	Yes	Yes	Yes	Yes
lock_8.0.17				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_debug_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_debug_missing_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_debug_missing_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_debug_missing_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_dependency				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_extra_dependencies				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_output_directory				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_print_text				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_trace_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_trace_missing_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_trace_missing_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_trace_missing_lock				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_wait_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
lock_connects	5.7.6						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
locked_in_memory						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log_backward_compatible_user_definitions	5.7.6	5.7.9	Yes	Yes	Yes			Global	Yes						
log_bin				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log_bin						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log_bin_basename						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log_bin_index				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log_bin_trust_function_creators	8.0.34			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log_bin_use_old_row_events	8.0.18			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes			
log_bin_as_insecure_by_password	5.7.19	8.0.11	Yes	Yes	Yes			Global	Yes	Yes					
log_error				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log_error_filters	8.0.2	8.0.4	Yes	Yes	Yes			Global	Yes						
log_error_services	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
log_error_suppression_list	8.0.13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
log_error_verbosity	5.7.2			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log_isam				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log_output				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
log_queries_not_using_indexes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log-raw				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log_replica_updates	8.0.26			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
log-short-format				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log_slave_updates	8.0.26			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log-slow-admin-statements			5.7.1	Yes	Yes										
log_slow_admin_statements	5.7.1			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log_slow_extra	8.0.14			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
log_slow_replica_statements	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
log-slow-slave-statements			5.7.1	Yes	Yes										
log_slow_slave_statements	5.7.1	8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log_statements_not_safe_for_binlog	5.7.11	8.0.34		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
log_syslog	5.7.5	8.0.2	8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log_syslog_facility	5.7.5		8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log_syslog_include_path	5.7.5		8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log_syslog_tag	5.7.5		8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log-tc				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log-tc-size				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log_throttle_queries_not_using_indexes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log_timestamps	5.7.2			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log-warnings		5.7.2	8.0.3	Yes	Yes	Yes		Global	Yes	Yes					
long_query_time				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
low_priority_updates				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
lower_case_file_system						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
lower_case_table_names				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mandatory_roles	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
master-info-file		8.0.18		Yes	Yes					Yes	Yes	Yes	Yes		

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master_info_repository		8.0.23		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes		
master-retry-count		5.6.1		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
master_verify_checksums		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_allowed_packet				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max-binlog-dump-events				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_stmt_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_connect_errors				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_connections				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_delayed_reads		5.6.7		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_digest_length		5.7.6		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
max_error_count				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_execution_time		5.7.8		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max_execution_time_exceeded		5.7.8					Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Max_execution_time_set		5.7.8					Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Max_execution_time_set_failed		5.7.8					Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
max_heap_table_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_insert_delayed_threads		5.6.7				Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_join_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_length_in_sort_order		8.0.20		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_length_in_geometry_index		5.7.8		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_prepared_stmt_count				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_relay_log_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_seeks_for_key				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_sort_length				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_sp_recursion_depth				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_statement_time		5.7.4				Yes		Both	Yes						
Max_statement_time_exceeded		5.7.4					Yes	Both	No						
Max_statement_time_set		5.7.4					Yes	Both	No						
Max_statement_time_set_failed		5.7.4					Yes	Both	No						
max_tmp_tables		5.6.7	8.0.3			Yes		Both	Yes	Yes					
Max_used_connections							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Max_used_connections_time		5.7.5					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
max_user_connections				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_write_lock_count				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mecab_5.7.6_arset							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mecab_5.7.6_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
memlock				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
metadata_5.7.4_8.0.13_files_block_size				Yes	Yes	Yes		Global	No	Yes	Some				
metadata_5.7.4_8.0.13_files_block_size_statuses				Yes	Yes	Yes		Global	No	Yes	Some				
min_examined_row_limit				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
multi_range_count				5.6.7, 8.0.3	Yes	Yes	Yes	Both	Yes	Yes					
mysam-block-size				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
mysam_data_pointer_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysam_max_sort_file_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysam_mmap_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysam_recover_options				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysam_replication_filters				5.7.38, 5.7.39, 8.0.29, 8.0.30	Yes	Yes	Yes	Both	Yes	Some	Some				
mysam_sort_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysam_stats_method				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysam_use_mmap				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_firewall_database				Yes	Yes	Yes		Global	No				Yes	Yes	Yes
mysql_5.7.9_8.0.11_firewall_mode				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_firewall_reload_interval				Yes	Yes	Yes	seconds	Global	No				Yes	Yes	Yes
mysql_5.7.9_8.0.11_firewall_trace				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql-native-password		8.4.0		Yes	Yes										Yes
mysql_native_password_proxy_users		5.7.7, 8.0.16		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_8.0.11_native_password_proxy_users				Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
Mysqlex_aborted_clients							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Mysqlex_address							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.17_bind_address				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlex_bytes_received							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlex_bytes_received_compressed_payload							Yes	Both	No		Some	Yes	Yes	Yes	Yes
Mysqlex_bytes_received_uncompressed_payload							Yes	Both	No		Some	Yes	Yes	Yes	Yes
Mysqlex_bytes_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Mysql	8.0-19			bytes_sent_compressed_payload			Yes	Both	No		Some	Yes	Yes	Yes	Yes
Mysql	8.0-19			bytes_sent_uncompressed_frame			Yes	Both	No		Some	Yes	Yes	Yes	Yes
Mysql	8.0-20			compression_algorithm			Yes	Session	No		Some	Yes	Yes	Yes	Yes
mysql	8.0-19			compression_algorithm	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Mysql	8.0-20			compression_level			Yes	Session	No		Some	Yes	Yes	Yes	Yes
mysql	5.7-12			connect_timeout	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Mysql	x			connection_accept_errors			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			connection_errors			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			connections_accepted			Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			connections_closed			Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			connections_rejected			Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_create_view			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_delete			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_drop_view			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_find			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_insert			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_modify_view			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			crud_update			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			cursor_close			Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysql	x			cursor_fetch			Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysql	x			cursor_open			Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysql	8.0-20			late_default_compression_level	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
mysql	8.0-20			late_max_client_compression_level	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
mysql	x			document_id_unique_refs	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes
mysql	x			enable_hello_timeout	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes
Mysql	x			errors_sent			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			errors_unknown_message_type			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			expect_close			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysql	x			expect_open			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql	5.7-12			file_worker_threads	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Mysql	x			init_error			Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql	8.0-14			interactive_timeout	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes
mysql	8.0-20			late_default_compression_level	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
mysql	8.0-20			late_max_client_compression_level	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
mysql	5.7-12			max_allowed_packet	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
mysql	5.7-12			max_connections	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Mysql	x			messages_sent			Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysql	5.7-12			worker_threads	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Mysqlx_notice_global_sent							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_notice_other_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_notice_warning_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_notified_by_group_replication							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_port							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql_5.7.17_5.7.17			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_prep_deallocate							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_prep_execute							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_prep_prepare							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysql_8.0.4_8.0.4			Yes	Yes	Yes			Session	Yes		Yes	Yes	Yes	Yes	Yes
Mysqlx_rows_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_accepted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_closed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_fatal_error							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_killed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_rejected							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_socket							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.15_5.7.15			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_accept_renegotiates							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_active							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_cipher							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_cipher_list							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_ctx_verify_depth							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_ctx_verify_mode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_finished_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql_5.7.12_5.7.12			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_server_not_after							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_server_not_before							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_verify_depth							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Mysqlx_ssl_verify_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_version							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_create_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_create_collection_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_disable_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_drop_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_drop_collection_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_enable_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_ensure_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_mysqlx							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_xplugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_get_collection_options							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_kill_client							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_clients							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_objects							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_modify_collection_options							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_ping							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_wait_timeout	8.0.4			Yes	Yes	Yes		Session	Yes		Yes	Yes	Yes	Yes	Yes
Mysqlx_worker_threads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_worker_threads_active							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_write_timeout	8.0.4			Yes	Yes	Yes		Session	Yes		Yes	Yes	Yes	Yes	Yes
mysqlx_zstd_default_compression_level	8.0.20			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
mysqlx_zstd_max_client_compression_level	8.0.20			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
named_pipe				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
named_pipe_full_access_group	5.7.25 8.0.14			Yes	Yes	Yes		Global	No	Some	Some	Yes	Yes	Yes	Yes
ndb_allow_copying_alter_table	5.7.10- ndb-7.5.0			Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_exp	8.0.23- ndb-8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_slaves							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_slave	8.0.23- ndb-8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_api_adaptive_send_forced_count	8.0-23	8.0-23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count_replica	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count_slave	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_replica	8.0-23	8.0-23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_session	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_slave	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_replica	8.0-23	8.0-23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_session	8.0-23	8.0-23					Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_slave	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_replica	8.0-23	8.0-23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_session	8.0-23	8.0-23					Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_slave	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_bytes_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_bytes_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_data_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_data_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_nondata_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_nondata_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_replica	8.0-23	8.0-23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_session	8.0-23	8.0-23					Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_slave	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_replica	8.0-23	8.0-23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_session	8.0-23	8.0-23					Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_slave	8.0-23	8.0-23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_api_range_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_replica	8.0.23	ndb-8.0.23					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_slave	8.0.23	ndb-8.0.23					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_api_trans_local_read_row_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_trans_local_read_row_count							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_trans_start_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_trans_start_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_uk_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_uk_op_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_exec_complete_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_exec_complete_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_meta_request_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_meta_request_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_nanos_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_nanos_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_scan_result_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_wait_scan_result_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
ndb- appli- allow- skip- epoch	8.0.28- ndb-8.0.28			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
ndb_increment_preset				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb- batch- size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb- blob- read- batch- bytes				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb- blob- write- batch- bytes				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_cache_size	5.7.20-8.0.11			Yes	Yes	Yes		Global	Yes	Yes					
ndb_clear_apply_status				Yes		Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb- cluster- connection- pool				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb- cluster- connection- pool- nodeids	5.7.10- ndb-7.5.0			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
Ndb_cluster_node_id							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_config_from_host							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_config_from_port							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_config_generation	8.0.24- ndb-8.0.24						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch_trans							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2_trans							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max_del_win							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max_del_win_ins	8.0.30- ndb-8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_conflict_fn_max_ins	8.0.30- ndb-8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_conflict_fn_old							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_last_conflict_epoch							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_last_stable_epoch							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_reflected_op_discard_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_reflected_op_prepare_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_refresh_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_conflict_role	8.0.23- ndb-8.0.23			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Ndb_conflict_trans_conflict_commit_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_detect_iter_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_reject_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_row_conflict_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_row_reject_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-connectstring				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
ndb_conflict_node_neighbors	5.7.12- ndb-7.5.2			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb_conflict_check_shares	8.0.13- ndb-8.0.13			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
ndb_default_column_format	5.7.11- ndb-7.5.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb_default_column_format	5.7.11- ndb-7.5.1			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb-deferred-constraints				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_deferred_constraints				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-distribution				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_distribution				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_epoch_delete_delete_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_eventbuffer_free_percent				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_eventbuffer_max_free_percent				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_execute_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_extra_logging				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_force_send				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
ndb_5.7.12-replicated-ndb-7.5.2				Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_enable				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_optim				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_join_pushdown						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_server							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-apply-status				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_apply_status				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_bin				Yes		Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_binlog_index				Yes		Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_8.0.40-cache_size-ndb-8.0.40,8.4.3-ndb-8.4.3				Yes	Yes	Yes		Global	Yes		Some				Some
ndb-log-empty-epochs				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_epochs				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-empty-update				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_update				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-exclusive-reads				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_exclusive_reads				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-fail-terminate-ndb-5.7.29-ndb-7.6.14,8.0.21-ndb-8.0.21				Yes	Yes	Yes		Global	No	Some	Some	Yes	Yes	Yes	Yes
ndb-log-orig				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_orig				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_8.0.31-transaction_compression-ndb-8.0.31				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
<a href="#">ndb_log_transaction_id</a>	8.0.31- ndb-8.0.31	transaction_id		Yes	Yes	Yes	level_size	Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">ndb_log_transaction_dependency</a>	8.0.33- ndb-8.0.33			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">ndb_log_transaction_id</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ndb_log_transaction_id</a>						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ndb_log_update_as_write</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ndb_log_update_minimal</a>	5.7.18- ndb-7.6.3			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
<a href="#">ndb_log_updated_only</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Ndb_mdata_block_size</a>	8.0.18-8.0.21- ndb-8.0.18-8.0.21	8.0.22- ndb-8.0.21-8.0.22					block_size	Global	No		Some				
<a href="#">ndb_mdata_check</a>	8.0.16- ndb-8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">ndb_mdata_check_interval</a>	8.0.16- ndb-8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">Ndb_mdata_detected_count</a>	8.0.16- ndb-8.0.16							Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">Ndb_mdata_excluded_count</a>	8.0.18- ndb-8.0.22							Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">ndb_mdata_sync</a>	8.0.19- ndb-8.0.19					Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">Ndb_mdata_synced_count</a>	8.0.18- ndb-8.0.18							Global	No		Some	Yes	Yes	Yes	Yes
<a href="#">ndb_mgm_tls</a>	8.3.0- ndb-8.3.0			Yes	Yes	Yes		Global	No					Some	Yes
<a href="#">ndb_mgm_host</a>				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ndb_nodeid</a>				Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_number_of_data_nodes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-optimization-delay				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-optimized-node-selection				Yes						Yes	Yes	Yes	Yes	Yes	Yes
ndb_optimized_node_select				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pruned_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_defined							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_dropped							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_executed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_recv_thread_backup	5.7.12			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb-7.5.2															
ndb_recv_thread_activation_threshold				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_recv_thread_cpu_mask				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_report_a_batch_size	8.0.30			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
ndb-8.0.30															
ndb_report_a_blob_writes_batch_bytes	8.0.30			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
ndb-8.0.30															
Ndb_replica_max_replicated_epochs	8.0.23					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
ndb_report_thresh_binlog_repl_ip				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_report_thresh_binlog_usage				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_row_checksum	5.7.23					Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb-7.6.8															
Ndb_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_slave_dist_lock_wait_timeout	8.0.18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
ndb-8.0.18															
ndb-schem-dist-timeout	8.0.17-			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.17															
ndb_slave_dist_timeout	8.0.16-			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.16															
ndb_slave_dist_upgrade_allowed	8.0.17-			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.17															
ndb_show_foreign_key_checks_enable				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_slave_conflict_resolution	8.0.23			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_slave_max_replicated_epoch							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_slave_name	5.7-18					Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
ndb-7.6.2															
ndb_table_no_logging						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_table_temporary						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-tls-search-path	8.3.0-ndb-8.3.0			Yes	Yes	Yes		Global	No					Some	Yes
Ndb_table_hint_count_session	8.0.17-ndb-8.0.17						Yes	Both	No		Some	Yes	Yes	Yes	Yes
ndb-transid-mysql-connection-map				Yes						Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_copying_alter_table						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_exact_count						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_transactions				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_version_string						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-wait-connected				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-wait-setup				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndbcluster				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
ndbinfodb	8.0.13-ndb-8.0.13			Yes							Some	Yes	Yes	Yes	Yes
ndbinfo_database						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_bytes				Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_rows				Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_offline						Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_show_hidden				Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_table_prefix						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
net_buffer_length				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
net_read_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
net_retry_count				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
net_write_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
new		8.0.35, 8.2.0		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	
ngram_size	5.7.6			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
no-dd-upgrade	8.0.4	8.0.16		Yes	Yes						Yes	Yes	Yes	Yes	
no-defaults				Yes						Yes	Yes	Yes	Yes	Yes	Yes
no-monitor	8.0.12			Yes	Yes						Some	Yes	Yes	Yes	Yes
Not_flushed_delayed_rows	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
offline_mode	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
old		8.0.35, 8.2.0		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
old_alter_table				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
old_passwords	5.7.6	8.0.11		Yes	Yes	Yes		Both	Yes	Yes					
old-style-user-limits		8.0.30		Yes	Yes					Yes	Yes	Yes	Yes		
Ongoing_anonymous_gtid_violating_transactions_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ongoing_anonymous_transaction_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ongoing_automatic_gtid_violating_transactions_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Open_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
open_files_limit				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Open_streams							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Open_table_definitions							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Open_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Opened_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Opened_table_definitions							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Opened_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_prune_level				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_search_depth				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_switch				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_features				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_limit				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_max_mem_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_offs				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
original_commit_timestamp	8.0.11					Yes		Session	Yes		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
original	8.0.14	server_version				Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
parse	5.7.12	mem_size	Yes	Yes	Yes			Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
partition	8.0.16	evokes		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
partition	5.7.16			Yes	Yes					Yes					
password	8.0.3	history		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
password	8.0.13	require_current	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
password	8.0.3	reuse_interval	Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
performance_schema			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_accounts_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_accounts_size			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_cond_classes_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_cond_instances_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-stages-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-stages-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-stages-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-cpu	8.0.28			Yes	Yes						Some	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
events- statements- history															
performance- schema- consumer- events- statements- history- long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance- schema- consumer- events- transactions- current	5.7.3			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance- schema- consumer- events- transactions- history	5.7.3			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance- schema- consumer- events- transactions- history- long	5.7.3			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance- schema- consumer- events- waits- current				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance- schema- consumer- events- waits- history				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance- schema- consumer- events- waits- history- long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
performance-schema-consumer-global-instrumentation				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-statements-digest				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-thread-instrumentation				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_digest_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_digest_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events				Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
performance_schema_events_aggr_history				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_aggr_history_long				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_statements_history				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_statements_history_long				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_transactions_history				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_transactions_history_long				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_transactions_history_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_transactions_history_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_transactions_history_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_classes_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_handles_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_instances_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_hosts_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_hosts				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_index_stat_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-instrument				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_locker_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_connections				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_instances				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_digest_length				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_digest_length				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
performance_schema_max_file_classes				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_file_handles				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
performance_schema_metadata_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-6 performance_schema_metadata_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-2 performance_schema_memory_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-3 performance_schema_metadata_locks	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_metadata_classes	Yes	Yes	Yes					Global	No				Yes	Yes	Yes
performance_schema_memory_classes	Yes	Yes	Yes					Global	No				Yes	Yes	Yes
performance_schema_mutex_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_mutex_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-4 performance_schema_prepared_statement_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-2 performance_schema_program_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_rwlock_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_rwlock_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_socket_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_socket_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-6 performance_schema_sql_text_length	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_stage_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_stage_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-2 performance_schema_stage_stack	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_table_handles	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_table_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-6 performance_schema_table_statistics	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_thread_classes	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_thread_instances	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-2 Performance_schema_memory_classes_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-3 Performance_schema_metadata_locks_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_meter_lost							Yes	Global	No				Yes	Yes	Yes
Performance_schema_metric_lost							Yes	Global	No				Yes	Yes	Yes
Performance_schema_mutex_classes_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_mutex_instances_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-2 Performance_schema_nested_statement_instances	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-4 Performance_schema_prepared_statement_instances	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
5-7-2 Performance_schema_program_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_rwlock_classes_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_rwlock_instances_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_session_connect_errors	Yes						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_session_connect_errors_not_seen	Yes						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_session_connect_attrs	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_session_connect_attrs_size	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes



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performance_schema_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_size	5.7.39, 8.0.35, 8.0.22	8.2.0		Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes	Yes
Performance_schema_socket_classes_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_socket_instances_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_stage_classes_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_statement_classes_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_table_handles_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_table_instances_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_table_lock_statistics	5.7.6						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_thread_classes_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_thread_instances_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_users_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_users_size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
persistently_admin_xp	8.0.14			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
persistently_admin_xp	8.0.29			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
persisted_globals_lost				Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
pid_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
plugin_dir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
plugin-load				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
plugin-load-add				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
plugin-xxx				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
port				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
port-open-timeout				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
preload_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prepared_stmt_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
print-defaults				Yes						Yes	Yes	Yes	Yes	Yes	Yes
print_identified_with_as	8.0.17			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
profiling	5.6.8					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
profiling_memory_size	5.6.8			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
protocol_compression_goroutines	8.0.18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
protocol_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
proxy_user						Yes		Session	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
<a href="#">pseudo_replica_mode</a>	8.0.26					Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
<a href="#">pseudo_slave_mode</a>	8.0.26					Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">pseudo_thread_id</a>						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Qcache_free_blocks</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_free_memory</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_hits</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_insert_count</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_lowmem_prunes</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_not_cached</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_queries_in_cache</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Qcache_total_blocks</a>	5.7.20	8.0.3					Yes	Global	No	Yes					
<a href="#">Queries</a>							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">query_alloc_block_size</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">query_cache_block_size</a>	5.7.12	8.0.3		Yes	Yes	Yes		Global	Yes	Yes					
<a href="#">query_cache_block_size_test</a>	5.7.20	8.0.3		Yes	Yes	Yes		Global	Yes	Yes					
<a href="#">query_cache_size</a>	5.7.20	8.0.3		Yes	Yes	Yes		Global	Yes	Yes					
<a href="#">query_cache_type</a>	5.7.20	8.0.3		Yes	Yes	Yes		Both	Yes	Yes					
<a href="#">query_cache_warm_up_time</a>	5.7.20	8.0.3		Yes	Yes	Yes		Both	Yes	Yes					
<a href="#">query_prepared_size</a>	8.0.29			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">Questions</a>							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">rand_seed1</a>						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">rand_seed2</a>						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">range_alloc_block_size</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">range_optimizer_max_mem_size</a>	5.7.9			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">rbr_encrypt_mode</a>	5.7.1					Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">read_buffer_size</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">read_only</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">read_rnd_buffer_size</a>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">regex_back_limit</a>	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
<a href="#">regex_name_limit</a>	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
<a href="#">relay_log</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">relay_log_basename</a>						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">relay_log_index</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">relay_log_info_file</a>	8.0.18			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
<a href="#">relay_log_info_repository</a>	8.0.23			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes		
<a href="#">relay_log_purge</a>				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">relay_log_recovery</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">relay_log_space_limit</a>				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

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remove				Yes						Yes	Yes	Yes	Yes	Yes	Yes
replica- low_batching- ndb-8.0.26	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- checkpoint_group	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- checkpoint_period	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- compressed_protocol	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- ec_mode	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- bad_tmpdir	8.0.26			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
replica- max_allowed_packet	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- set_timeout	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Replica- open_temp_tables	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
replica- 8.0.129- rel_type	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- parallel_workers	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- pending_jobs_size_max	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- reserve_connection_order	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Replica- rows_last_search_algorithm	8.0.26						Yes	Global	No		Some	Yes	Yes		
replica- skip_errors	8.0.26			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
replica- sql_verify_checksums	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- transaction_write_timeout	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replica- type_conversion	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replicate- do- db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate- do- table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate- ignore- db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate- ignore- table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate- rewrite- db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate- same- server- id				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate- wild-				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes

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do-table															
replicate-wild-ignore-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replication_optimizer_for_replication_plugin_disabled	5.7.33 8.0.23			Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes	Yes
replication_sender_or_server_only	5.7.33 8.0.23			Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes	Yes
report_host				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
report_password				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
report_port				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
report_user				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
require_row_format	8.0.19					Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
require_secure_transport	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resource_group_supported	8.0.31						Yes	Global	No		Some	Yes	Yes	Yes	Yes
restrict_foreign_keys	8.4.0			Yes	Yes	Yes		Both	Yes						Yes
result_metadata	8.0.3					Yes		Session	Yes		Yes	Yes	Yes	Yes	Yes
rewrite_enabled	5.7.6					Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rewrite_enabled_for_threads_without_privilege_checks	8.0.31					Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Rewrite_number_loaded_rules	5.7.6						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewrite_number_reloads	5.7.6						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewrite_number_rewritten_queries	5.7.6						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewrite_reload_error	5.7.6						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rewrite_verbose	5.7.6					Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_replica_size	8.0.11			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_clients							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_capability				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_avg_wait_time							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_wait_time							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_no_times							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_no_tx							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_status							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_timefunc_failures							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_timefunc_failures				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_trace_level				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_avg_wait_time							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_wait_time							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Rpl_semi_sync_master_tx_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_wait_for_slave_count	5.7.13			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_wait_for_slave				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_wait_for_slave_index	5.7.12			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_wait_pos_backtraverse							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_wait_sessions							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_yes_tx							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_replica_enable	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_replica_status	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_replica_rate_level	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_enable				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_slave_status							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_rate_level				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_clients	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_enable	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_avg_wait_time	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_wait_time	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_waits	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_no_times	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_no_tx	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_status	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_timefunc_failures	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_timefunc	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_rate_level	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_tx_avg_wait_time	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_tx_wait_time	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_tx_waits	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_wait_for_slave_count	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_wait_for_slave	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_wait_for_slave_index	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_wait_pos_backtraverse	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_wait_sessions	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_yes_tx	8.0.26						Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_replica_timefunc	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_timefunc	5.7.2	8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rsa_public_key		8.0.16					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
safe-user-create		8.0.11		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
schema_definition_cache				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
secondary_engine_cost_threshold	8.0.16			Yes	Yes	Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
Secondary_engine_execution_count	8.0.13						Yes	Both	No		Some	Yes	Yes	Yes	Yes
secure_auth	5.7.5	8.0.3		Yes	Yes	Yes		Global	Yes	Yes					
secure_file_priv				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Select_full_join							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Select_full_range_join							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
select_into_buffer_size	8.0.22			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
select_into_disk_sync	8.0.22			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
select_into_disk_sync_delete	8.0.22			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
Select_range							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Select_range_check							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Select_scan							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
server_id				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
server_id_bits				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
server_uuid						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
session_track_gtids	5.7.6			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_track_schema	5.7.4			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_track_state_changes	5.7.4			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_track_system_variables	5.7.4			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_track_transactions	5.7.8			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
set_operations_buffer_size				Yes	Yes	Yes		Both	Yes				Yes	Yes	Yes
sha256_password_auto_generate_keys	5.7.5	8.0.16		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
sha256_password_private_key_path	8.0.16			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
sha256_password_proxy_users	5.7.7	8.0.16		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sha256_password_public_key_path	8.0.16			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
shared_memory				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
shared_memory_base_name				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
show_innodb_buffer_pools	5.7.6	5.7.6	8.0.15	Yes	Yes	Yes		Global	Yes	Yes					
show_table_skip_secondary_engine	8.0.18			Yes	Yes	Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
show_table_versions	5.7.22	8.0.11		Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
show_binlog_create_tables_and_information_schema	8.0.30			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
show_factorials	5.7.6	5.6.24	5.7.6	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
show-replica-auth-info	8.0.26			Yes	Yes						Some	Yes	Yes	Yes	Yes
show-slave-auth-info		8.0.26		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
simple-replication	5.7.5	5.6.23	5.7.6	Yes	Yes	Yes		Global	No						
skip-character-set-client-handshake		8.0.35, 8.2.0		Yes	Yes					Yes	Yes	Yes	Yes		
skip_external_locking				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_grant_tables				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
skip_host_cache		8.0.30		Yes	Yes					Yes	Yes	Yes	Yes		
skip_name_resolve				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_ndbcluster				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
skip_networking				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_new		8.0.35, 8.2.0		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
skip_partition		5.7.16		Yes	Yes					Yes					
skip-replica-start	8.0.26			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
skip-show-database				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip-slave-start		8.0.26		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip-ssl		8.0.26		Yes	Yes					Yes	Yes	Yes	Yes	Yes	
skip-stack-trace				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
slave_allow_loading	8.0.26	8.0.26	ndb-8.0.26	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
slave_checkpoint_group		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_checkpoint_period		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_compressed_protocol		8.0.18		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_exec_mode				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slave_heartbeat_period		5.7.6	8.0.1				Yes	Global	No	Yes					
Slave_last_heartbeat		5.7.6	8.0.1				Yes	Global	No	Yes					
slave_load_balance		8.0.26		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_max_allowed_packet		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_net_timeout		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slave_open_tables		8.0.26					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_parallel_type		5.7.2	8.0.26	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_parallel_workers		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_pending_jobs_size_max		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_preserve_committed_logs		5.7.5	8.0.26	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slave_receive_repl_commands		5.7.6	8.0.1				Yes	Global	No	Yes					
Slave_repl_commands		5.7.6	8.0.1				Yes	Global	No	Yes					
Slave_rows_read_search_algorithm_usage		8.0.26					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_rows_read_search_algorithm_usage		8.0.18		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes			
Slave_runners		5.7.6	8.0.1				Yes	Global	No	Yes					
slave-skip-errors		8.0.26		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave-sql-verify-checksum				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
slave_sql_verify_checksum		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_transaction_retries		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slave_type_conversion		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slow_launch_threads							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
slow_launch_time				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Slow_queries							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
slow_query_log				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slow_query_log_file				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
slow-start-timeout				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
socket				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
sort_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sort_merge_passes							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes



Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Sort_range							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Sort_rows							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Sort_scan							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
source_verify_checks	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
sporadic-binlog-dump-fail				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
sql_auto_is_null						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_big_selects						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_buffer_result						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_create_invisible_primary_key	8.0.30			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
sql_log_bin						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_log_off						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql-mode				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_notes						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_quote_show_create						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_read_a_skip_counter	8.0.26					Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
sql_require_primary_key	8.0.13			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
sql_safe_updates						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_select_limit						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_slave_skip_counter	8.0.26					Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_warnings						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl		8.0.26		Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Ssl_accept_renegotiates							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_ca				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_callback_cache_hits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_capath				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
ssl_cert				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_cipher							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_cipher				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_cipher_list							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_client_connects							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_connect_renegotiates							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_crl				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
ssl_crlpath				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_ctx_verify_depth							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ssl_ctx_verify_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_default_timeout							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_finished_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_finished_connects							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_flush_timeout	8.0.11	8.0.34		Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
ssl_key				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_server_not_after							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_server_not_before							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_hits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_misses							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_session_cache_mode	8.0.29			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Ssl_session_cache_overflows							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_timeout	8.0.29						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ssl_session_cache_timeout	8.0.29			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Ssl_session_cache_timeouts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_sessions_reused							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_used_session_cache_entries							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_verify_depth							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_verify_mode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_version							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
standalone				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
statement_id						Yes		Session	No		Yes	Yes	Yes	Yes	Yes
storage_engine		5.7.5				Yes		Both	Yes						
stored_program_cache				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
stored_program_definitions				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
super-large-pages				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
super_read_only	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
symbolic-links		8.0.2		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
sync_binlog				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_frm		5.7.6		Yes	Yes	Yes		Global	Yes	Yes					
sync_master_info		8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_relay_log				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_relay_log_info		8.0.34		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_slave_info		8.0.26		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
sysdate-is-now				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
syserror_log.facility	8.0-13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
syserror_log.include_dir	8.0-13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
syserror_log.tag	8.0-13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
system_time_zone						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
table_definition_cache				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_encryption_privilege_check	8.0-16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Table_locks_immediate							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Table_locks_waited							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
table_open_cache				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Table_open_cache_hits							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
table_open_cache_innocent_hits				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Table_open_cache_misses							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Table_open_cache_overflows							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
tablespace_definition_cache				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
tc-heuristic-recover				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
Tc_log_max_pages_used							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Tc_log_page_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Tc_log_page_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Telemetry_metrics_supported							Yes	Global	No				Yes	Yes	Yes
Telemetry_traces_supported	8.0-33						Yes	Global	No		Some	Yes	Yes	Yes	Yes
telemetry.live_sessions							Yes	Global	No			Yes	Yes	Yes	Yes
telemetry.metrics_reader_frequency_1					Yes			Global	No					Yes	Yes
telemetry.metrics_reader_frequency_2					Yes			Global	No					Yes	Yes
telemetry.metrics_reader_frequency_3					Yes			Global	No					Yes	Yes
telemetry.otel_bsp_max_export_batch_size					Yes			Global	No			Yes	Yes	Yes	Yes
telemetry.otel_bsp_max_queue_size					Yes			Global	No			Yes	Yes	Yes	Yes
telemetry.otel_bsp_schedule_delay					Yes			Global	No			Yes	Yes	Yes	Yes
telemetry.otel_exporter_otlp_metrics_certificate_urls					Yes			Global	No					Yes	Yes
telemetry.otel_exporter_otlp_metrics_certificate_paths					Yes			Global	No					Yes	Yes
telemetry.otel_exporter_otlp_metrics_certificate_urls_and_paths					Yes			Global	No					Yes	Yes
telemetry.otel_exporter_otlp_metrics_client_certificates					Yes			Global	No					Yes	Yes
telemetry.otel_exporter_otlp_metrics_client_certificates_and_urls					Yes			Global	No					Yes	Yes
telemetry.otel_exporter_otlp_metrics_compression					Yes			Global	No					Yes	Yes
telemetry.otel_exporter_otlp_metrics_endpoint					Yes			Global	No					Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
telemetry	otel_exporter_otlp_metrics_headers					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_metrics_max					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_metrics_min					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_metrics_prot					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_metrics_time					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_traces_certificates					Yes		Global	Yes			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_ciphers					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_traces_ciphers_enabled					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_traces_client_certificates					Yes		Global	Yes			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_client_certs					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_compression					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_endpoint					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_headers					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_max					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_traces_min					Yes		Global	No					Yes	Yes
telemetry	otel_exporter_otlp_traces_prot					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	otel_exporter_otlp_traces_time					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	otel_log_level					Yes		Global	Yes			Yes	Yes	Yes	Yes
telemetry	otel_resource_attributes					Yes		Global	No			Yes	Yes	Yes	Yes
telemetry	query_text_enabled					Yes		Global	Yes			Yes	Yes	Yes	Yes
telemetry	trace_enabled					Yes		Global	Yes			Yes	Yes	Yes	Yes
temp-pool		5.7.18	8.0.1	Yes	Yes					Yes					
temp	8.0.23_max_mmap			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
temp	8.0.12_max_ram			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
temp	8.0.16_8.0.26_max_mmap			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
terminal	8.0.26_query_use_previous			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
thread_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_compatibility	5.6.1-5.7.2			Yes	Yes	Yes		Global	No						
thread_handling				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_algorithm	5.7.9-8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_dedicated_instances	8.0.23			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
thread_pool_high_priority_queries	5.7.9-8.0.11			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_longrun_queries				Yes	Yes	Yes		Global	Yes						Yes
thread_pool_max_active_queries	8.0.19			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
thread_pool_max_transactions_per_thread	8.0.23			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
thread_pool_max_unused_threads	5.7.9 8.0.11			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_prio_kick_threshold	5.7.9 8.0.11			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_query_threads_per_group	8.0.31			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
thread_pool_size	5.7.9 8.0.11			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_stall_limit	5.7.9 8.0.11			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_transaction_delay	8.0.31			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
thread_stack				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_cached							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_connected							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_created							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_running							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
time_format		8.0.3				Yes		Global	No	Yes					
time_zone						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
timed_mutexes	5.5.39, 5.6.20	5.7.5		Yes	Yes	Yes		Global	Yes						
timestamp						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tls_certificates_enabled_validation				Yes	Yes	Yes		Global	No			Yes	Yes	Yes	Yes
tls_cipher_suites	8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Tls_library_version	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Tls_sni_server_name							Yes	Session	No			Yes	Yes	Yes	Yes
tls_version	5.7.10			Yes	Yes	Yes		Global	Varies	Some	Yes	Yes	Yes	Yes	Yes
tmp_table_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tmpdir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
transaction_alloc_block_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_allow_batching						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction-isolation				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_realloc_size	8.0.29			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction-read-only				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_write_set_extraction	5.7.6	8.0.26		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes		
tx_isolation	5.7.20	8.0.3				Yes		Both	Yes	Yes					
tx_read_only	5.7.20	8.0.3				Yes		Both	Yes	Yes					
unique_checks						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
updatable_views_with_limit				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
upgrade	8.0.16			Yes	Yes						Some	Yes	Yes	Yes	Yes
Uptime							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Uptime_since_flush_status							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
use_secondary_engine	8.0.13					Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
user				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
validate_config	8.0.16			Yes	Yes						Some	Yes	Yes	Yes	Yes
validate-password				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
validate_password_check_user_name	5.7.15			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
validate_password_dictionary_file	5.7.8			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_dictionary_file_path	5.7.8			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_length	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_mixed_case_count	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_number_count	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_policy	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_special_char_count	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_changed_characters_per_age	8.0.34			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
validate_password.check_user_name	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password.dictionary_file	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password.dictionary_file_path	8.0.4			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
validate_password.dictionary_file_words	8.0.4			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
validate_password.length	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password.mixed_case_count	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password.number_count	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password.policy	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password.special_char_count	8.0.4			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate-user-plugins				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
verbose				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_comment						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_compile_machine						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_compile_os						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_compile_zlib	8.0.11					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
version_core_sessions	5.7.8-9.2.0			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_core_sessions_number	5.7.8-9.2.0			Yes	Yes	Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
<code>wait_timeout</code>				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>warning_count</code>						Yes		Session	No	Yes	Yes	Yes	Yes	Yes	Yes
<code>window_in_use_high_precision</code>	8.0.2			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
<code>xa_debug_on_prepare</code>	8.0.29			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes

## 1.1 Option and Variable Changes for MySQL 5.7

The following list details the changes to specific options and variables within MySQL 5.7.

- `audit-log`  
Introduced in version 5.7.9
- `audit_log_buffer_size`  
Introduced in version 5.7.9
- `audit_log_compression`  
Introduced in version 5.7.21
- `audit_log_connection_policy`  
Introduced in version 5.7.9
- `audit_log_current_session`  
Introduced in version 5.7.9
- `Audit_log_current_size`  
Introduced in version 5.7.9
- `audit_log_disable`  
Introduced in version 5.7.37
- `audit_log_encryption`  
Introduced in version 5.7.21
- `Audit_log_event_max_drop_size`  
Introduced in version 5.7.9
- `Audit_log_events`  
Introduced in version 5.7.9
- `Audit_log_events_filtered`  
Introduced in version 5.7.9
- `Audit_log_events_lost`  
Introduced in version 5.7.9

- `Audit_log_events_written`

Introduced in version 5.7.9

- `audit_log_exclude_accounts`

Introduced in version 5.7.9

- `audit_log_file`

Introduced in version 5.7.9

- `audit_log_filter_id`

Introduced in version 5.7.13

- `audit_log_flush`

Introduced in version 5.7.9

- `audit_log_format`

Introduced in version 5.7.9

Value parameter changes in version 5.7.21:

- Default is NEW

- `audit_log_format_unix_timestamp`

Introduced in version 5.7.35

- `audit_log_include_accounts`

Introduced in version 5.7.9

- `audit_log_policy`

Introduced in version 5.7.9

- `audit_log_read_buffer_size`

Introduced in version 5.7.21

Value parameter changes in version 5.7.23:

- Default is 32768, minimum is 32768, maximum is 4194304

- `audit_log_rotate_on_size`

Introduced in version 5.7.9

- `audit_log_statement_policy`

Introduced in version 5.7.9

- `audit_log_strategy`

Introduced in version 5.7.9



- `Audit_log_total_size`  
Introduced in version 5.7.9
- `Audit_log_write_waits`  
Introduced in version 5.7.9
- `authentication_ldap_sasl_auth_method_name`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_bind_base_dn`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_bind_root_dn`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_bind_root_pwd`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_ca_path`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_group_search_attr`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_group_search_filter`  
Introduced in version 5.7.21
- `authentication_ldap_sasl_init_pool_size`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_log_status`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_max_pool_size`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_server_host`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_server_port`  
Introduced in version 5.7.19
- `authentication_ldap_sasl_tls`  
Introduced in version 5.7.19

- `authentication_ldap_sasl_user_search_attr`  
Introduced in version 5.7.19
- `authentication_ldap_simple_auth_method_name`  
Introduced in version 5.7.19
- `authentication_ldap_simple_bind_base_dn`  
Introduced in version 5.7.19
- `authentication_ldap_simple_bind_root_dn`  
Introduced in version 5.7.19
- `authentication_ldap_simple_bind_root_pwd`  
Introduced in version 5.7.19
- `authentication_ldap_simple_ca_path`  
Introduced in version 5.7.19
- `authentication_ldap_simple_group_search_attr`  
Introduced in version 5.7.19
- `authentication_ldap_simple_group_search_filter`  
Introduced in version 5.7.21
- `authentication_ldap_simple_init_pool_size`  
Introduced in version 5.7.19
- `authentication_ldap_simple_log_status`  
Introduced in version 5.7.19
- `authentication_ldap_simple_max_pool_size`  
Introduced in version 5.7.19
- `authentication_ldap_simple_server_host`  
Introduced in version 5.7.19
- `authentication_ldap_simple_server_port`  
Introduced in version 5.7.19
- `authentication_ldap_simple_tls`  
Introduced in version 5.7.19
- `authentication_ldap_simple_user_search_attr`  
Introduced in version 5.7.19

- `authentication_windows_log_level`  
Introduced in version 5.7.9
- `authentication_windows_use_principal_name`  
Introduced in version 5.7.9
- `auto_generate_certs`  
Introduced in version 5.7.5
- `avoid_temporal_upgrade`  
Introduced in version 5.7.6  
Deprecated in version 5.7.6
- `binlog_error_action`  
Introduced in version 5.7.6  
Value parameter changes in version 5.7.7:
  - Default is ABORT\_SERVER
- `binlog_format`  
Value parameter changes in version 5.7.7:
  - Default is ROW
- `binlog_group_commit_sync_delay`  
Introduced in version 5.7.5
- `binlog_group_commit_sync_no_delay_count`  
Introduced in version 5.7.5
- `binlog_gtid_simple_recovery`  
Introduced in version 5.7.6  
Value parameter changes in version 5.7.7:
  - Default is ON
- `binlog_max_flush_queue_time`  
Deprecated in version 5.7.9
- `binlog_transaction_dependency_history_size`  
Introduced in version 5.7.22
- `binlog_transaction_dependency_tracking`  
Introduced in version 5.7.22

- `binlogging_impossible_mode`  
Introduced in version 5.7.5  
Removed in version 5.7.6
- `block_encryption_mode`  
Introduced in version 5.7.4
- `bootstrap`  
Deprecated in version 5.7.6
- `check_proxy_users`  
Introduced in version 5.7.7
- `Com_change_repl_filter`  
Introduced in version 5.7.3
- `Com_explain_other`  
Introduced in version 5.7.2
- `Com_group_replication_start`  
Introduced in version 5.7.6
- `Com_group_replication_stop`  
Introduced in version 5.7.6
- `Com_show_create_user`  
Introduced in version 5.7.6
- `Com_show_slave_status_nonblocking`  
Introduced in version 5.7.0  
Removed in version 5.7.6
- `Com_shutdown`  
Introduced in version 5.7.9
- `Connection_control_delay_generated`  
Introduced in version 5.7.17
- `connection_control_failed_connections_threshold`  
Introduced in version 5.7.17
- `connection_control_max_connection_delay`  
Introduced in version 5.7.17

- `connection_control_min_connection_delay`

Introduced in version 5.7.17

- `daemonize`

Introduced in version 5.7.6

- `default-authentication-plugin`

Removed in version 5.7.2

- `default_authentication_plugin`

Introduced in version 5.7.2

- `default_password_lifetime`

Introduced in version 5.7.4

Value parameter changes in version 5.7.11:

- Default is 0, minimum is 0, maximum is 65535

- `des-key-file`

Deprecated in version 5.7.6

- `disable-partition-engine-check`

Introduced in version 5.7.17

Deprecated in version 5.7.17

Value parameter changes in version 5.7.21:

- Default is ON

- `disabled_storage_engines`

Introduced in version 5.7.8

- `disconnect_on_expired_password`

Introduced in version 5.7.1

- `early-plugin-load`

Introduced in version 5.7.11

Value parameter changes in version 5.7.12:

- Default is empty string

- `enforce_gtid_consistency`

Value parameter changes in version 5.7.6:

- Default is OFF

- `eq_range_index_dive_limit`  
Value parameter changes in version 5.7.4:
  - Default is 200, minimum is 0, maximum is 4294967295
- `executed_gtids_compression_period`  
Introduced in version 5.7.5  
Removed in version 5.7.6
- `Firewall_access_denied`  
Introduced in version 5.7.9
- `Firewall_access_granted`  
Introduced in version 5.7.9
- `Firewall_cached_entries`  
Introduced in version 5.7.9
- `group_replication_allow_local_disjoint_gtids_join`  
Introduced in version 5.7.17  
Deprecated in version 5.7.21
- `group_replication_allow_local_lower_version_join`  
Introduced in version 5.7.17
- `group_replication_auto_increment_increment`  
Introduced in version 5.7.17
- `group_replication_bootstrap_group`  
Introduced in version 5.7.17
- `group_replication_components_stop_timeout`  
Introduced in version 5.7.17
- `group_replication_compression_threshold`  
Introduced in version 5.7.17
- `group_replication_enforce_update_everywhere_checks`  
Introduced in version 5.7.17
- `group_replication_exit_state_action`  
Introduced in version 5.7.24
- `group_replication_flow_control_applier_threshold`

Introduced in version 5.7.17

- `group_replication_flow_control_certifier_threshold`

Introduced in version 5.7.17

- `group_replication_flow_control_mode`

Introduced in version 5.7.17

- `group_replication_force_members`

Introduced in version 5.7.17

- `group_replication_group_name`

Introduced in version 5.7.17

- `group_replication_group_seeds`

Introduced in version 5.7.17

- `group_replication_gtid_assignment_block_size`

Introduced in version 5.7.17

- `group_replication_ip_whitelist`

Introduced in version 5.7.17

- `group_replication_local_address`

Introduced in version 5.7.17

- `group_replication_member_weight`

Introduced in version 5.7.20

- `group_replication_poll_spin_loops`

Introduced in version 5.7.17

- `group_replication_recovery_complete_at`

Introduced in version 5.7.17

- `group_replication_recovery_reconnect_interval`

Introduced in version 5.7.17

- `group_replication_recovery_retry_count`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_ca`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_capath`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_cert`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_cipher`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_crl`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_crlpath`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_key`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_verify_server_cert`

Introduced in version 5.7.17

- `group_replication_recovery_use_ssl`

Introduced in version 5.7.17

- `group_replication_single_primary_mode`

Introduced in version 5.7.17

- `group_replication_ssl_mode`

Introduced in version 5.7.17

- `group_replication_start_on_boot`

Introduced in version 5.7.17

- `group_replication_transaction_size_limit`

Introduced in version 5.7.19

Value parameter changes in version 5.7.38:

- Default is 150000000, minimum is 0, maximum is 2147483647

- `group_replication_unreachable_majority_timeout`

Introduced in version 5.7.19

- `gtid_executed_compression_period`

Introduced in version 5.7.6

- `gtid_mode`



Value parameter changes in version 5.7.6:

- Default is OFF
- `have_crypt`  
Deprecated in version 5.7.6
- `have_query_cache`  
Deprecated in version 5.7.20
- `have_statement_timeout`  
Introduced in version 5.7.4
- `ignore-db-dir`  
Deprecated in version 5.7.16
- `ignore_db_dirs`  
Deprecated in version 5.7.16
- `initialize`  
Introduced in version 5.7.6
- `initialize-insecure`  
Introduced in version 5.7.6
- `innodb`  
Deprecated in version 5.7.5
- `innodb_adaptive_hash_index_parts`  
Introduced in version 5.7.8
- `innodb_additional_mem_pool_size`  
Removed in version 5.7.4
- `Innodb_available_undo_logs`  
Deprecated in version 5.7.19
- `innodb_background_drop_list_empty`  
Introduced in version 5.7.10
- `innodb_buffer_pool_chunk_size`  
Introduced in version 5.7.5
- `innodb_buffer_pool_dump_at_shutdown`

Value parameter changes in version 5.7.7:

- Default is ON
- `innodb_buffer_pool_dump_pct`  
Introduced in version 5.7.2  
Value parameter changes in version 5.7.7:
  - Default is 25, minimum is 1, maximum is 100
- `innodb_buffer_pool_load_at_startup`  
Value parameter changes in version 5.7.7:
  - Default is ON
- `Innodb_buffer_pool_resize_status`  
Introduced in version 5.7.5
- `innodb_checksum_algorithm`  
Value parameter changes in version 5.7.7:
  - Default is crc32
- `innodb_compress_debug`  
Introduced in version 5.7.8
- `innodb_deadlock_detect`  
Introduced in version 5.7.15
- `innodb_default_row_format`  
Introduced in version 5.7.9
- `innodb_disable_resize_buffer_pool_debug`  
Introduced in version 5.7.6
- `innodb_file_format`  
Deprecated in version 5.7.7  
Value parameter changes in version 5.7.7:
  - Default is Barracuda
- `innodb_file_format_check`  
Deprecated in version 5.7.7
- `innodb_file_format_max`  
Deprecated in version 5.7.7  
Value parameter changes in version 5.7.9:

- Default is Barracuda
- `innodb_fill_factor`  
Introduced in version 5.7.5
- `innodb_flush_sync`  
Introduced in version 5.7.8
- `innodb_ft_max_token_size`  
Value parameter changes in version 5.7.3:
  - Default is 84, minimum is 10, maximum is 84
- `innodb_ft_result_cache_limit`  
Introduced in version 5.7.2  
Value parameter changes in version 5.7.4:
  - Default is 2000000000, minimum is 1000000, maximum is  $2^{32}-1$
- `innodb_ft_total_cache_size`  
Introduced in version 5.7.2
- `innodb_large_prefix`  
Deprecated in version 5.7.7  
Value parameter changes in version 5.7.7:
  - Default is ON
- `innodb_log_buffer_size`  
Value parameter changes in version 5.7.6:
  - Default is 16777216, minimum is 1048576, maximum is 4294967295
- `innodb_log_checkpoint_now`  
Introduced in version 5.7.2
- `innodb_log_checksum_algorithm`  
Introduced in version 5.7.8  
Removed in version 5.7.9
- `innodb_log_checksums`  
Introduced in version 5.7.9
- `innodb_log_file_size`  
Value parameter changes in version 5.7.11:

- Default is 50331648, minimum is 4194304, maximum is 512GB / `innodb_log_files_in_group`
- `innodb_log_write_ahead_size`  
Introduced in version 5.7.4
- `innodb_max_dirty_pages_pct`  
Value parameter changes in version 5.7.5:
  - Default is 75, minimum is 0, maximum is 99.999
- `innodb_max_dirty_pages_pct_lwm`  
Value parameter changes in version 5.7.5:
  - Default is 0, minimum is 0, maximum is 99.999
- `innodb_max_undo_log_size`  
Introduced in version 5.7.5
- `innodb_merge_threshold_set_all_debug`  
Introduced in version 5.7.6
- `innodb_numa_interleave`  
Introduced in version 5.7.9
- `innodb_optimize_point_storage`  
Introduced in version 5.7.5  
Removed in version 5.7.6
- `innodb_page_cleaners`  
Introduced in version 5.7.4  
Value parameter changes in version 5.7.8:
  - Default is 4, minimum is 1, maximum is 64
- `innodb_page_size`  
Value parameter changes in version 5.7.6:
  - Default is 16384
- `innodb_purge_rseg_truncate_frequency`  
Introduced in version 5.7.5
- `innodb_purge_threads`  
Value parameter changes in version 5.7.8:
  - Default is 4, minimum is 1, maximum is 32

- `innodb_stats_include_delete_marked`

Introduced in version 5.7.17

- `innodb_status_output`

Introduced in version 5.7.4

- `innodb_status_output_locks`

Introduced in version 5.7.4

- `innodb_strict_mode`

Value parameter changes in version 5.7.7:

- Default is ON

- `innodb_support_xa`

Deprecated in version 5.7.10

- `innodb_sync_debug`

Introduced in version 5.7.8

- `innodb_temp_data_file_path`

Introduced in version 5.7.1

- `innodb_thread_sleep_delay`

Value parameter changes in version 5.7.4:

- Default is 10000, minimum is 0, maximum is 1000000

- `innodb_tmpdir`

Introduced in version 5.7.11

- `innodb_undo_directory`

Value parameter changes in version 5.7.8:

- Default is not specified

- `innodb_undo_log_truncate`

Introduced in version 5.7.5

- `innodb_undo_logs`

Deprecated in version 5.7.19

- `innodb_undo_tablespaces`

Deprecated in version 5.7.21

Value parameter changes in version 5.7.8:

- Default is 0, minimum is 0, maximum is 95
- `innodb_use_sys_malloc`  
Removed in version 5.7.4
- `internal_tmp_disk_storage_engine`  
Introduced in version 5.7.5  
Value parameter changes in version 5.7.6:
  - Default is INNODB
- `keyring_aws_cmk_id`  
Introduced in version 5.7.19
- `keyring_aws_conf_file`  
Introduced in version 5.7.19
- `keyring_aws_data_file`  
Introduced in version 5.7.19
- `keyring_aws_region`  
Introduced in version 5.7.19  
Value parameter changes in version 5.7.27:
  - Default is us-east-1Value parameter changes in version 5.7.39:
  - Default is us-east-1
- `keyring_encrypted_file_data`  
Introduced in version 5.7.21
- `keyring_encrypted_file_password`  
Introduced in version 5.7.21
- `keyring_file_data`  
Introduced in version 5.7.11
- `keyring-migration-destination`  
Introduced in version 5.7.21
- `keyring-migration-host`  
Introduced in version 5.7.21
- `keyring-migration-password`

Introduced in version 5.7.21

- `keyring-migration-port`

Introduced in version 5.7.21

- `keyring-migration-socket`

Introduced in version 5.7.21

- `keyring-migration-source`

Introduced in version 5.7.21

- `keyring-migration-user`

Introduced in version 5.7.21

- `keyring_okv_conf_dir`

Introduced in version 5.7.12

- `keyring_operations`

Introduced in version 5.7.21

- `Locked_connects`

Introduced in version 5.7.6

- `log_backward_compatible_user_definitions`

Introduced in version 5.7.6

Removed in version 5.7.9

- `log_builtin_as_identified_by_password`

Introduced in version 5.7.9

- `log_error_verbosity`

Introduced in version 5.7.2

- `log-slow-admin-statements`

Removed in version 5.7.1

- `log_slow_admin_statements`

Introduced in version 5.7.1

- `log-slow-slave-statements`

Removed in version 5.7.1

- `log_slow_slave_statements`

Introduced in version 5.7.1

- `log_statements_unsafe_for_binlog`  
Introduced in version 5.7.11
- `log_syslog`  
Introduced in version 5.7.5
- `log_syslog_facility`  
Introduced in version 5.7.5
- `log_syslog_include_pid`  
Introduced in version 5.7.5
- `log_syslog_tag`  
Introduced in version 5.7.5
- `log-tc-size`  
Value parameter changes in version 5.7.21 (bitsize=64):
  - Default is 6 \* page size, minimum is 6 \* page size, maximum is 18446744073709551615Value parameter changes in version 5.7.21 (bitsize=32):
  - Default is 6 \* page size, minimum is 6 \* page size, maximum is 4294967295
- `log_timestamps`  
Introduced in version 5.7.2
- `log-warnings`  
Deprecated in version 5.7.2  
Value parameter changes in version 5.7.2 (bitsize=64):
  - Default is 2, minimum is 0, maximum is 18446744073709551615Value parameter changes in version 5.7.2 (bitsize=32):
  - Default is 2, minimum is 0, maximum is 4294967295
- `max_digest_length`  
Introduced in version 5.7.6
- `max_execution_time`  
Introduced in version 5.7.8
- `Max_execution_time_exceeded`  
Introduced in version 5.7.8
- `Max_execution_time_set`



Introduced in version 5.7.8

- `Max_execution_time_set_failed`

Introduced in version 5.7.8

- `max_points_in_geometry`

Introduced in version 5.7.8

- `max_statement_time`

Introduced in version 5.7.4

Removed in version 5.7.8

- `Max_statement_time_exceeded`

Introduced in version 5.7.4

Removed in version 5.7.8

- `Max_statement_time_set`

Introduced in version 5.7.4

Removed in version 5.7.8

- `Max_statement_time_set_failed`

Introduced in version 5.7.4

Removed in version 5.7.8

- `Max_used_connections_time`

Introduced in version 5.7.5

- `mecab_charset`

Introduced in version 5.7.6

- `mecab_rc_file`

Introduced in version 5.7.6

- `metadata_locks_cache_size`

Deprecated in version 5.7.4

- `metadata_locks_hash_instances`

Deprecated in version 5.7.4

- `myisam_repair_threads`

Removed in version 5.7.39

Deprecated in version 5.7.38

- `mysql_firewall_mode`  
Introduced in version 5.7.9
- `mysql_firewall_trace`  
Introduced in version 5.7.9
- `mysql_native_password_proxy_users`  
Introduced in version 5.7.7
- `mysqlx`  
Introduced in version 5.7.12
- `mysqlx_bind_address`  
Introduced in version 5.7.17
- `mysqlx_connect_timeout`  
Introduced in version 5.7.12
- `mysqlx_idle_worker_thread_timeout`  
Introduced in version 5.7.12
- `mysqlx_max_allowed_packet`  
Introduced in version 5.7.12
- `mysqlx_max_connections`  
Introduced in version 5.7.12
- `mysqlx_min_worker_threads`  
Introduced in version 5.7.12
- `mysqlx_port`  
Introduced in version 5.7.12
- `mysqlx_port_open_timeout`  
Introduced in version 5.7.17
- `mysqlx_socket`  
Introduced in version 5.7.15
- `mysqlx_ssl_ca`  
Introduced in version 5.7.12
- `mysqlx_ssl_capath`  
Introduced in version 5.7.12

- `mysqlx_ssl_cert`  
Introduced in version 5.7.12
- `mysqlx_ssl_cipher`  
Introduced in version 5.7.12
- `mysqlx_ssl_crl`  
Introduced in version 5.7.12
- `mysqlx_ssl_crlpath`  
Introduced in version 5.7.12
- `mysqlx_ssl_key`  
Introduced in version 5.7.12
- `named_pipe_full_access_group`  
Introduced in version 5.7.25
- `ndb-allow-copying-alter-table`  
Introduced in version 5.7.10-ndb-7.5.0
- `ndb-batch-size`  
Value parameter changes in version 5.7.37-ndb-7.5.26:
  - Default is 32768, minimum is 0, maximum is 2147483648Value parameter changes in version 5.7.37-ndb-7.6.22:
  - Default is 32768, minimum is 0, maximum is 2147483648
- `ndb_cache_check_time`  
Deprecated in version 5.7.20
- `ndb-cluster-connection-pool-nodeids`  
Introduced in version 5.7.10-ndb-7.5.0
- `ndb_data_node_neighbour`  
Introduced in version 5.7.12-ndb-7.5.2
- `ndb-default-column-format`  
Introduced in version 5.7.11-ndb-7.5.1  
Value parameter changes in version 5.7.16-ndb-7.5.4:
  - Default is FIXED
- `ndb_default_column_format`

Introduced in version 5.7.11-ndb-7.5.1

Value parameter changes in version 5.7.16-ndb-7.5.4:

- Default is FIXED
- `ndb_eventbuffer_max_alloc`  
Value parameter changes in version 5.7.35-ndb-7.5.23:
  - Default is 0, minimum is 0, maximum is 9223372036854775807
- Value parameter changes in version 5.7.35-ndb-7.6.19:
  - Default is 0, minimum is 0, maximum is 9223372036854775807

- `ndb_fully_replicated`

Introduced in version 5.7.12-ndb-7.5.2

- `ndb-log-fail-terminate`

Introduced in version 5.7.29-ndb-7.6.14

- `ndb-log-update-minimal`

Introduced in version 5.7.18-ndb-7.6.3

- `ndb_read_backup`

Introduced in version 5.7.12-ndb-7.5.2

- `ndb_report_thresh_binlog_epoch_slip`

Value parameter changes in version 5.7.16-ndb-7.5.4:

- Default is 10, minimum is 0, maximum is 256
- `ndb_row_checksum`

Introduced in version 5.7.23-ndb-7.6.8

- `Ndb_system_name`

Introduced in version 5.7.18-ndb-7.6.2

- `ngram_token_size`

Introduced in version 5.7.6

- `offline_mode`

Introduced in version 5.7.5

- `old_passwords`

Deprecated in version 5.7.6

Value parameter changes in version 5.7.5:

- Default is 0

- `optimizer_switch`

Value parameter changes in version 5.7.5:

- Default is not specified

Value parameter changes in version 5.7.6:

- Default is not specified

Value parameter changes in version 5.7.8:

- Default is not specified

Value parameter changes in version 5.7.33:

- Default is not specified

- `parser_max_mem_size`

Introduced in version 5.7.12

- `partition`

Deprecated in version 5.7.16

- `performance_schema_accounts_size`

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- `performance-schema-consumer-events-transactions-current`

Introduced in version 5.7.3

- `performance-schema-consumer-events-transactions-history`

Introduced in version 5.7.3

- `performance-schema-consumer-events-transactions-history-long`

Introduced in version 5.7.3

- `performance_schema_events_transactions_history_long_size`

Introduced in version 5.7.3

- `performance_schema_events_transactions_history_size`

Introduced in version 5.7.3

- `performance_schema_hosts_size`

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576
- `performance_schema_index_stat_lost`  
Introduced in version 5.7.6
- `performance_schema_max_cond_instances`  
Value parameter changes in version 5.7.6:
  - Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576
- `performance_schema_max_digest_length`  
Introduced in version 5.7.8
- `performance_schema_max_file_classes`  
Value parameter changes in version 5.7.9:
  - Default is 80, minimum is 0, maximum is 256
- `performance_schema_max_file_instances`  
Value parameter changes in version 5.7.6:
  - Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576
- `performance_schema_max_index_stat`  
Introduced in version 5.7.6
- `performance_schema_max_memory_classes`  
Introduced in version 5.7.2  
Value parameter changes in version 5.7.5:
  - Default is 320, minimum is 0, maximum is 1024
- `performance_schema_max_metadata_locks`  
Introduced in version 5.7.3  
Value parameter changes in version 5.7.6:
  - Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 10485760
- `performance_schema_max_mutex_instances`  
Value parameter changes in version 5.7.6:
  - Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 104857600

- [performance\\_schema\\_max\\_prepared\\_statements\\_instances](#)

Introduced in version 5.7.4

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 4194304

- [performance\\_schema\\_max\\_program\\_instances](#)

Introduced in version 5.7.2

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [performance\\_schema\\_max\\_rwlock\\_classes](#)

Value parameter changes in version 5.7.3:

- Default is 40, minimum is 0, maximum is 256

Value parameter changes in version 5.7.25:

- Default is 50, minimum is 0, maximum is 256

- [performance\\_schema\\_max\\_socket\\_instances](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [performance\\_schema\\_max\\_sql\\_text\\_length](#)

Introduced in version 5.7.6

- [performance\\_schema\\_max\\_statement\\_stack](#)

Introduced in version 5.7.2

- [performance\\_schema\\_max\\_table\\_handles](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [performance\\_schema\\_max\\_table\\_lock\\_stat](#)

Introduced in version 5.7.6

- [Performance\\_schema\\_memory\\_classes\\_lost](#)

Introduced in version 5.7.2

- [Performance\\_schema\\_metadata\\_lock\\_lost](#)

Introduced in version 5.7.3

- `Performance_schema_nested_statement_lost`

Introduced in version 5.7.2

- `Performance_schema_prepared_statements_lost`

Introduced in version 5.7.4

- `Performance_schema_program_lost`

Introduced in version 5.7.2

- `performance_schema_setup_actors_size`

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autosizing; do not assign this literal value), maximum is 1048576

- `performance_schema_setup_objects_size`

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- `performance_schema_show_processlist`

Introduced in version 5.7.39

- `Performance_schema_table_lock_stat_lost`

Introduced in version 5.7.6

- `performance_schema_users_size`

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- `Qcache_free_blocks`

Deprecated in version 5.7.20

- `Qcache_free_memory`

Deprecated in version 5.7.20

- `Qcache_hits`

Deprecated in version 5.7.20

- `Qcache_inserts`

Deprecated in version 5.7.20



- `Qcache_lowmem_prunes`  
Deprecated in version 5.7.20
- `Qcache_not_cached`  
Deprecated in version 5.7.20
- `Qcache_queries_in_cache`  
Deprecated in version 5.7.20
- `Qcache_total_blocks`  
Deprecated in version 5.7.20
- `query_alloc_block_size`  
Value parameter changes in version 5.7.9:
  - Default is 8192, minimum is 1024, maximum is 4294966272
- `query_cache_limit`  
Deprecated in version 5.7.20
- `query_cache_min_res_unit`  
Deprecated in version 5.7.20
- `query_cache_size`  
Deprecated in version 5.7.20
- `query_cache_type`  
Deprecated in version 5.7.20
- `query_cache_wlock_invalidate`  
Deprecated in version 5.7.20
- `range_alloc_block_size`  
Value parameter changes in version 5.7.8 (bitsize=64):
  - Default is 4096, minimum is 4096, maximum is 18446744073709550592Value parameter changes in version 5.7.9:
  - Default is 4096, minimum is 4096, maximum is 4294966272
- `range_optimizer_max_mem_size`  
Introduced in version 5.7.9  
Value parameter changes in version 5.7.12:
  - Default is 8388608, minimum is 0, maximum is 18446744073709551615

- `rbr_exec_mode`  
Introduced in version 5.7.1
- `replication_optimize_for_static_plugin_config`  
Introduced in version 5.7.33
- `replication_sender_observe_commit_only`  
Introduced in version 5.7.33
- `require_secure_transport`  
Introduced in version 5.7.8
- `rewriter_enabled`  
Introduced in version 5.7.6
- `Rewriter_number_loaded_rules`  
Introduced in version 5.7.6
- `Rewriter_number_reloads`  
Introduced in version 5.7.6
- `Rewriter_number_rewritten_queries`  
Introduced in version 5.7.6
- `Rewriter_reload_error`  
Introduced in version 5.7.6
- `rewriter_verbose`  
Introduced in version 5.7.6
- `rpl_semi_sync_master_wait_for_slave_count`  
Introduced in version 5.7.3
- `rpl_semi_sync_master_wait_point`  
Introduced in version 5.7.2
- `rpl_stop_slave_timeout`  
Introduced in version 5.7.2
- `secure_auth`  
Deprecated in version 5.7.5  
Value parameter changes in version 5.7.5:
  - Default is ON

- `secure_file_priv`  
Value parameter changes in version 5.7.6:
  - Default is platform specific
- `session_track_gtids`  
Introduced in version 5.7.6
- `session_track_schema`  
Introduced in version 5.7.4
- `session_track_state_change`  
Introduced in version 5.7.4
- `session_track_system_variables`  
Introduced in version 5.7.4
- `session_track_transaction_info`  
Introduced in version 5.7.8
- `sha256_password_auto_generate_rsa_keys`  
Introduced in version 5.7.5
- `sha256_password_proxy_users`  
Introduced in version 5.7.7
- `show_compatibility_56`  
Introduced in version 5.7.6  
Deprecated in version 5.7.6  
Value parameter changes in version 5.7.8:
  - Default is OFF
- `show_create_table_verbosity`  
Introduced in version 5.7.22
- `show_old_temporals`  
Introduced in version 5.7.6  
Deprecated in version 5.7.6
- `simplified_binlog_gtid_recovery`  
Introduced in version 5.7.5  
Removed in version 5.7.6

- **skip-partition**  
Deprecated in version 5.7.16
- **Slave\_heartbeat\_period**  
Deprecated in version 5.7.6
- **Slave\_last\_heartbeat**  
Deprecated in version 5.7.6
- **slave\_net\_timeout**  
Value parameter changes in version 5.7.7:
  - Default is 60, minimum is 1, maximum is 31536000
- **slave\_parallel\_type**  
Introduced in version 5.7.2
- **slave\_preserve\_commit\_order**  
Introduced in version 5.7.5
- **Slave\_received\_heartbeats**  
Deprecated in version 5.7.6
- **Slave\_retried\_transactions**  
Deprecated in version 5.7.6
- **Slave\_running**  
Deprecated in version 5.7.6  
Value parameter changes in version 5.7.99:
  - Default is not specified
- **slave\_type\_conversions**  
Value parameter changes in version 5.7.2:
  - Default is
- **sql-mode**  
Value parameter changes in version 5.7.5:
  - Default is ONLY\_FULL\_GROUP\_BY STRICT\_TRANS\_TABLES NO\_ENGINE\_SUBSTITUTIONValue parameter changes in version 5.7.7:
  - Default is ONLY\_FULL\_GROUP\_BY STRICT\_TRANS\_TABLES NO\_AUTO\_CREATE\_USER NO\_ENGINE\_SUBSTITUTIONValue parameter changes in version 5.7.8:

- Default is ONLY\_FULL\_GROUP\_BY STRICT\_TRANS\_TABLES NO\_ZERO\_IN\_DATE NO\_ZERO\_DATE ERROR\_FOR\_DIVISION\_BY\_ZERO NO\_AUTO\_CREATE\_USER NO\_ENGINE\_SUBSTITUTION
- `ssl`  
Value parameter changes in version 5.7.5:
  - Default is ON
- `storage_engine`  
Removed in version 5.7.5
- `stored_program_cache`  
Value parameter changes in version 5.7.6:
  - Default is 256, minimum is 16, maximum is 524288
- `super_read_only`  
Introduced in version 5.7.8
- `sync_binlog`  
Value parameter changes in version 5.7.7:
  - Default is 1, minimum is 0, maximum is 4294967295
- `sync_frm`  
Deprecated in version 5.7.6
- `table_open_cache_instances`  
Value parameter changes in version 5.7.8:
  - Default is 16, minimum is 1, maximum is 64
- `temp-pool`  
Deprecated in version 5.7.18
- `thread_concurrency`  
Removed in version 5.7.2
- `thread_handling`  
Value parameter changes in version 5.7.9:
  - Default is one-thread-per-connection
- `thread_pool_algorithm`  
Introduced in version 5.7.9
- `thread_pool_high_priority_connection`

Introduced in version 5.7.9

- `thread_pool_max_unused_threads`

Introduced in version 5.7.9

- `thread_pool_prio_kickup_timer`

Introduced in version 5.7.9

- `thread_pool_size`

Introduced in version 5.7.9

- `thread_pool_stall_limit`

Introduced in version 5.7.9

- `timed_mutexes`

Removed in version 5.7.5

- `tls_version`

Introduced in version 5.7.10

Value parameter changes in version 5.7.28:

- Default is TLSv1,TLSv1.1,TLSv1.2

- `transaction_alloc_block_size`

Value parameter changes in version 5.7.6:

- Default is 8192, minimum is 1024, maximum is 131072

- `transaction_prealloc_size`

Value parameter changes in version 5.7.6:

- Default is 4096, minimum is 1024, maximum is 131072

- `transaction_write_set_extraction`

Introduced in version 5.7.6

Value parameter changes in version 5.7.14:

- Default is OFF

- `tx_isolation`

Deprecated in version 5.7.20

- `tx_read_only`

Deprecated in version 5.7.20

- `validate_password_check_user_name`

Introduced in version 5.7.15

- `validate_password_dictionary_file_last_parsed`

Introduced in version 5.7.8

- `validate_password_dictionary_file_words_count`

Introduced in version 5.7.8

- `version_tokens_session`

Introduced in version 5.7.8

- `version_tokens_session_number`

Introduced in version 5.7.8

## 1.2 Option and Variable Changes for MySQL 8.0

The following list details the changes to specific options and variables within MySQL 8.0.

- `abort-slave-event-count`

Deprecated in version 8.0.29

- `Acl_cache_items_count`

Introduced in version 8.0.0

- `activate_all_roles_on_login`

Introduced in version 8.0.2

- `admin_address`

Introduced in version 8.0.14

- `admin_port`

Introduced in version 8.0.14

- `admin-ssl`

Introduced in version 8.0.21

Deprecated in version 8.0.26

- `admin_ssl_ca`

Introduced in version 8.0.21

- `admin_ssl_cpath`

Introduced in version 8.0.21

- `admin_ssl_cert`

Introduced in version 8.0.21

- `admin_ssl_cipher`  
Introduced in version 8.0.21
- `admin_ssl_crl`  
Introduced in version 8.0.21
- `admin_ssl_crlpath`  
Introduced in version 8.0.21
- `admin_ssl_key`  
Introduced in version 8.0.21
- `admin_tls_ciphersuites`  
Introduced in version 8.0.21
- `admin_tls_version`  
Introduced in version 8.0.21  
Value parameter changes in version 8.0.28:
  - Default is TLSv1.2,TLSv1.3
- `audit-log`  
Introduced in version 8.0.11
- `audit_log_buffer_size`  
Introduced in version 8.0.11
- `audit_log_compression`  
Introduced in version 8.0.11
- `audit_log_connection_policy`  
Introduced in version 8.0.11  
Deprecated in version 8.0.34
- `audit_log_current_session`  
Introduced in version 8.0.11
- `Audit_log_current_size`  
Introduced in version 8.0.11
- `audit_log_database`  
Introduced in version 8.0.33
- `audit_log_disable`



Introduced in version 8.0.28

- `audit_log_encryption`

Introduced in version 8.0.11

- `Audit_log_event_max_drop_size`

Introduced in version 8.0.11

- `Audit_log_events`

Introduced in version 8.0.11

- `Audit_log_events_filtered`

Introduced in version 8.0.11

- `Audit_log_events_lost`

Introduced in version 8.0.11

- `Audit_log_events_written`

Introduced in version 8.0.11

- `audit_log_exclude_accounts`

Introduced in version 8.0.11

Deprecated in version 8.0.34

- `audit_log_file`

Introduced in version 8.0.11

- `audit_log_filter_id`

Introduced in version 8.0.11

- `audit_log_flush`

Introduced in version 8.0.11

- `audit_log_flush_interval_seconds`

Introduced in version 8.0.34

- `audit_log_format`

Introduced in version 8.0.11

- `audit_log_format_unix_timestamp`

Introduced in version 8.0.26

- `audit_log_include_accounts`

Introduced in version 8.0.11

Deprecated in version 8.0.34

- `audit_log_max_size`

Introduced in version 8.0.26

- `audit_log_password_history_keep_days`

Introduced in version 8.0.17

- `audit_log_policy`

Introduced in version 8.0.11

Deprecated in version 8.0.34

- `audit_log_prune_seconds`

Introduced in version 8.0.24

- `audit_log_read_buffer_size`

Introduced in version 8.0.11

Value parameter changes in version 8.0.12:

- Default is 32768, minimum is 32768, maximum is 4194304

- `audit_log_rotate_on_size`

Introduced in version 8.0.11

- `audit_log_statement_policy`

Introduced in version 8.0.11

Deprecated in version 8.0.34

- `audit_log_strategy`

Introduced in version 8.0.11

- `Audit_log_total_size`

Introduced in version 8.0.11

- `Audit_log_write_waits`

Introduced in version 8.0.11

- `authentication_fido_rp_id`

Introduced in version 8.0.27

Deprecated in version 8.0.35

- `authentication_kerberos_service_key_tab`

Introduced in version 8.0.26

- `authentication_kerberos_service_principal`  
Introduced in version 8.0.26
- `authentication_ldap_sasl_auth_method_name`  
Introduced in version 8.0.11  
Value parameter changes in version 8.0.20:
  - Default is SCRAM-SHA-1Value parameter changes in version 8.0.23:
  - Default is SCRAM-SHA-1
- `authentication_ldap_sasl_bind_base_dn`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_bind_root_dn`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_bind_root_pwd`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_ca_path`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_group_search_attr`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_group_search_filter`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_init_pool_size`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_log_status`  
Introduced in version 8.0.11  
Value parameter changes in version 8.0.18:
  - Default is 1, minimum is 1, maximum is 6
- `authentication_ldap_sasl_max_pool_size`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_referral`  
Introduced in version 8.0.20

- `authentication_ldap_sasl_server_host`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_server_port`  
Introduced in version 8.0.11
- `Authentication_ldap_sasl_supported_methods`  
Introduced in version 8.0.21
- `authentication_ldap_sasl_tls`  
Introduced in version 8.0.11
- `authentication_ldap_sasl_user_search_attr`  
Introduced in version 8.0.11
- `authentication_ldap_simple_auth_method_name`  
Introduced in version 8.0.11
- `authentication_ldap_simple_bind_base_dn`  
Introduced in version 8.0.11
- `authentication_ldap_simple_bind_root_dn`  
Introduced in version 8.0.11
- `authentication_ldap_simple_bind_root_pwd`  
Introduced in version 8.0.11
- `authentication_ldap_simple_ca_path`  
Introduced in version 8.0.11
- `authentication_ldap_simple_group_search_attr`  
Introduced in version 8.0.11
- `authentication_ldap_simple_group_search_filter`  
Introduced in version 8.0.11
- `authentication_ldap_simple_init_pool_size`  
Introduced in version 8.0.11
- `authentication_ldap_simple_log_status`  
Introduced in version 8.0.11  
Value parameter changes in version 8.0.18:
  - Default is 1, minimum is 1, maximum is 6

- `authentication_ldap_simple_max_pool_size`  
Introduced in version 8.0.11
- `authentication_ldap_simple_referral`  
Introduced in version 8.0.20
- `authentication_ldap_simple_server_host`  
Introduced in version 8.0.11
- `authentication_ldap_simple_server_port`  
Introduced in version 8.0.11
- `authentication_ldap_simple_tls`  
Introduced in version 8.0.11
- `authentication_ldap_simple_user_search_attr`  
Introduced in version 8.0.11
- `authentication_policy`  
Introduced in version 8.0.27
- `authentication_windows_log_level`  
Introduced in version 8.0.11
- `authentication_windows_use_principal_name`  
Introduced in version 8.0.11
- `basedir`  
Value parameter changes in version 8.0.2:
  - Default is parent of mysqld installation directory
- `binlog_encryption`  
Introduced in version 8.0.14
- `binlog_expire_logs_auto_purge`  
Introduced in version 8.0.29
- `binlog_expire_logs_seconds`  
Introduced in version 8.0.1  
Value parameter changes in version 8.0.11:
  - Default is 2592000, minimum is 0, maximum is 4294967295
- `binlog_format`

Deprecated in version 8.0.34

- `binlog_rotate_encryption_master_key_at_startup`

Introduced in version 8.0.14

- `binlog_row_metadata`

Introduced in version 8.0.1

- `binlog_row_value_options`

Introduced in version 8.0.3

- `binlog_transaction_compression`

Introduced in version 8.0.20

- `binlog_transaction_compression_level_zstd`

Introduced in version 8.0.20

- `binlog_transaction_dependency_history_size`

Introduced in version 8.0.1

- `binlog_transaction_dependency_tracking`

Introduced in version 8.0.1

Deprecated in version 8.0.35

- `build_id`

Introduced in version 8.0.31

- `caching_sha2_password_auto_generate_rsa_keys`

Introduced in version 8.0.4

- `caching_sha2_password_digest_rounds`

Introduced in version 8.0.24

- `caching_sha2_password_private_key_path`

Introduced in version 8.0.3

- `caching_sha2_password_public_key_path`

Introduced in version 8.0.3

- `Caching_sha2_password_rsa_public_key`

Introduced in version 8.0.4

- `character_set_client`

Value parameter changes in version 8.0.1:

- Default is utf8mb4
- `character-set-client-handshake`  
Deprecated in version 8.0.35
- `character_set_connection`  
Value parameter changes in version 8.0.1:
  - Default is utf8mb4
- `character_set_database`  
Value parameter changes in version 8.0.1:
  - Default is utf8mb4
- `character_set_results`  
Value parameter changes in version 8.0.1:
  - Default is utf8mb4
- `character_set_server`  
Value parameter changes in version 8.0.1:
  - Default is utf8mb4
- `character_set_system`  
Value parameter changes in version 8.0.1:
  - Default is utf8mb3
- `clone_autotune_concurrency`  
Introduced in version 8.0.17
- `clone_block_ddl`  
Introduced in version 8.0.27
- `clone_buffer_size`  
Introduced in version 8.0.17
- `clone_ddl_timeout`  
Introduced in version 8.0.17
- `clone_delay_after_data_drop`  
Introduced in version 8.0.29
- `clone_donor_timeout_after_network_failure`  
Introduced in version 8.0.24

- `clone_enable_compression`  
Introduced in version 8.0.17
- `clone_max_concurrency`  
Introduced in version 8.0.17
- `clone_max_data_bandwidth`  
Introduced in version 8.0.17
- `clone_max_network_bandwidth`  
Introduced in version 8.0.17
- `clone_ssl_ca`  
Introduced in version 8.0.14
- `clone_ssl_cert`  
Introduced in version 8.0.14
- `clone_ssl_key`  
Introduced in version 8.0.14
- `clone_valid_donor_list`  
Introduced in version 8.0.17
- `collation_database`  
Value parameter changes in version 8.0.1:
  - Default is `utf8mb4_0900_ai_ci`
- `collation_server`  
Value parameter changes in version 8.0.1:
  - Default is `utf8mb4_0900_ai_ci`
- `Com_alter_resource_group`  
Introduced in version 8.0.3
- `Com_alter_user_default_role`  
Introduced in version 8.0.0
- `Com_change_replication_source`  
Introduced in version 8.0.23
- `Com_clone`  
Introduced in version 8.0.2



- `Com_create_resource_group`  
Introduced in version 8.0.3
- `Com_create_role`  
Introduced in version 8.0.0
- `Com_drop_resource_group`  
Introduced in version 8.0.3
- `Com_drop_role`  
Introduced in version 8.0.0
- `Com_grant_roles`  
Introduced in version 8.0.0
- `Com_install_component`  
Introduced in version 8.0.0
- `Com_replica_start`  
Introduced in version 8.0.22
- `Com_replica_stop`  
Introduced in version 8.0.22
- `Com_restart`  
Introduced in version 8.0.4
- `Com_revoke_roles`  
Introduced in version 8.0.0
- `Com_set_resource_group`  
Introduced in version 8.0.3
- `Com_set_role`  
Introduced in version 8.0.0
- `Com_show_replica_status`  
Introduced in version 8.0.22
- `Com_show_replicas`  
Introduced in version 8.0.22
- `Com_uninstall_component`  
Introduced in version 8.0.0

- `component_scheduler.enabled`  
Introduced in version 8.0.34
- `Compression`  
Deprecated in version 8.0.18
- `Compression_algorithm`  
Introduced in version 8.0.18
- `Compression_level`  
Introduced in version 8.0.18
- `Connection_control_delay_generated`  
Introduced in version 8.0.1
- `connection_control_failed_connections_threshold`  
Introduced in version 8.0.1
- `connection_control_max_connection_delay`  
Introduced in version 8.0.1
- `connection_control_min_connection_delay`  
Introduced in version 8.0.1
- `connection_memory_chunk_size`  
Introduced in version 8.0.28  
Value parameter changes in version 8.0.34:
  - Default is 8192, minimum is 0, maximum is 536870912
- `connection_memory_limit`  
Introduced in version 8.0.28
- `create_admin_listener_thread`  
Introduced in version 8.0.14
- `cte_max_recursion_depth`  
Introduced in version 8.0.3
- `Current_tls_ca`  
Introduced in version 8.0.16
- `Current_tls_capath`  
Introduced in version 8.0.16

- `Current_tls_cert`  
Introduced in version 8.0.16
- `Current_tls_cipher`  
Introduced in version 8.0.16
- `Current_tls_ciphersuites`  
Introduced in version 8.0.16
- `Current_tls_crl`  
Introduced in version 8.0.16
- `Current_tls_crlpath`  
Introduced in version 8.0.16
- `Current_tls_key`  
Introduced in version 8.0.16
- `Current_tls_version`  
Introduced in version 8.0.16
- `daemon_memcached_enable_binlog`  
Deprecated in version 8.0.22
- `daemon_memcached_engine_lib_name`  
Deprecated in version 8.0.22
- `daemon_memcached_engine_lib_path`  
Deprecated in version 8.0.22
- `daemon_memcached_option`  
Deprecated in version 8.0.22
- `daemon_memcached_r_batch_size`  
Deprecated in version 8.0.22
- `daemon_memcached_w_batch_size`  
Deprecated in version 8.0.22
- `date_format`  
Removed in version 8.0.3
- `datetime_format`  
Removed in version 8.0.3

- `ddl-rewriter`  
Introduced in version 8.0.16
- `default_authentication_plugin`  
Deprecated in version 8.0.27  
Value parameter changes in version 8.0.3:
  - Default is `mysql_native_password`Value parameter changes in version 8.0.4:
  - Default is `caching_sha2_password`
- `default_collation_for_utf8mb4`  
Introduced in version 8.0.11
- `default_table_encryption`  
Introduced in version 8.0.16
- `des-key-file`  
Removed in version 8.0.3
- `disconnect-slave-event-count`  
Deprecated in version 8.0.29
- `dragnet.log_error_filter_rules`  
Introduced in version 8.0.4
- `dragnet.Status`  
Introduced in version 8.0.12
- `early-plugin-load`  
Introduced in version 8.0.0
- `enterprise_encryption.maximum_rsa_key_size`  
Introduced in version 8.0.30
- `enterprise_encryption.rsa_support_legacy_padding`  
Introduced in version 8.0.30
- `Error_log_buffered_bytes`  
Introduced in version 8.0.22
- `Error_log_buffered_events`  
Introduced in version 8.0.22

- **Error\_log\_expired\_events**  
Introduced in version 8.0.22
- **Error\_log\_latest\_write**  
Introduced in version 8.0.22
- **event\_scheduler**  
Value parameter changes in version 8.0.3:
  - Default is ON
- **expire\_logs\_days**  
Deprecated in version 8.0.3  
Value parameter changes in version 8.0.2:
  - Default is 30, minimum is 0, maximum is 99Value parameter changes in version 8.0.11:
  - Default is 0, minimum is 0, maximum is 99
- **explain\_format**  
Introduced in version 8.0.32
- **explicit\_defaults\_for\_timestamp**  
Value parameter changes in version 8.0.2:
  - Default is ON
- **Firewall\_access\_denied**  
Introduced in version 8.0.11
- **Firewall\_access\_granted**  
Introduced in version 8.0.11
- **Firewall\_cached\_entries**  
Introduced in version 8.0.11
- **generated\_random\_password\_length**  
Introduced in version 8.0.18
- **Global\_connection\_memory**  
Introduced in version 8.0.28
- **global\_connection\_memory\_limit**  
Introduced in version 8.0.28

- `global_connection_memory_tracking`  
Introduced in version 8.0.28
- `group_replication_advertise_recovery_endpoints`  
Introduced in version 8.0.21
- `group_replication_allow_local_disjoint_gtids_join`  
Removed in version 8.0.4
- `group_replication_autorejoin_tries`  
Introduced in version 8.0.16  
Value parameter changes in version 8.0.21:
  - Default is 3, minimum is 0, maximum is 2016
- `group_replication_clone_threshold`  
Introduced in version 8.0.17
- `group_replication_communication_debug_options`  
Introduced in version 8.0.3
- `group_replication_communication_max_message_size`  
Introduced in version 8.0.16
- `group_replication_communication_stack`  
Introduced in version 8.0.27
- `group_replication_components_stop_timeout`  
Value parameter changes in version 8.0.27:
  - Default is 300, minimum is 2, maximum is 31536000
- `group_replication_consistency`  
Introduced in version 8.0.14
- `group_replication_exit_state_action`  
Introduced in version 8.0.12  
Value parameter changes in version 8.0.16:
  - Default is READ\_ONLYValue parameter changes in version 8.0.18:
  - Default is READ\_ONLY
- `group_replication_flow_control_hold_percent`

Introduced in version 8.0.2

- `group_replication_flow_control_max_quota`

Introduced in version 8.0.2

- `group_replication_flow_control_member_quota_percent`

Introduced in version 8.0.2

- `group_replication_flow_control_min_quota`

Introduced in version 8.0.2

- `group_replication_flow_control_min_recovery_quota`

Introduced in version 8.0.2

- `group_replication_flow_control_period`

Introduced in version 8.0.2

- `group_replication_flow_control_release_percent`

Introduced in version 8.0.2

- `group_replication_ip_allowlist`

Introduced in version 8.0.22

- `group_replication_ip_whitelist`

Deprecated in version 8.0.22

- `group_replication_member_expel_timeout`

Introduced in version 8.0.13

Value parameter changes in version 8.0.14:

- Default is 0, minimum is 0, maximum is 3600

Value parameter changes in version 8.0.21:

- Default is 5, minimum is 0, maximum is 3600

- `group_replication_member_weight`

Introduced in version 8.0.2

- `group_replication_message_cache_size`

Introduced in version 8.0.16

Value parameter changes in version 8.0.21 (bitsize=64):

- Default is 1073741824 (1 GB), minimum is 134217728 (128 MB), maximum is 18446744073709551615 (16 EiB)

Value parameter changes in version 8.0.21 (bitsize=32):

- Default is 1073741824 (1 GB), minimum is 134217728 (128 MB), maximum is 315360004294967295 (4 GB)

- `group_replication_paxos_single_leader`

Introduced in version 8.0.27

- `group_replication_primary_member`

Deprecated in version 8.0.4

- `group_replication_recovery_complete_at`

Deprecated in version 8.0.34

- `group_replication_recovery_compression_algorithms`

Introduced in version 8.0.18

- `group_replication_recovery_get_public_key`

Introduced in version 8.0.4

- `group_replication_recovery_public_key_path`

Introduced in version 8.0.4

- `group_replication_recovery_tls_ciphersuites`

Introduced in version 8.0.19

- `group_replication_recovery_tls_version`

Introduced in version 8.0.19

Value parameter changes in version 8.0.28:

- Default is TLSv1.2,TLSv1.3

- `group_replication_recovery_zstd_compression_level`

Introduced in version 8.0.18

- `group_replication_tls_source`

Introduced in version 8.0.21

- `group_replication_unreachable_majority_timeout`

Introduced in version 8.0.2

- `group_replication_view_change_uuid`

Introduced in version 8.0.26

- `gtid_executed_compression_period`



Value parameter changes in version 8.0.23:

- Default is 0, minimum is 0, maximum is 4294967295
- `have_crypt`  
Removed in version 8.0.3
- `have_openssl`  
Deprecated in version 8.0.26
- `have_ssl`  
Deprecated in version 8.0.26
- `histogram_generation_max_mem_size`  
Introduced in version 8.0.2
- `ignore_builtin_innodb`  
Removed in version 8.0.3
- `immediate_server_version`  
Introduced in version 8.0.14
- `information_schema_stats_expiry`  
Introduced in version 8.0.3
- `init_replica`  
Introduced in version 8.0.26
- `init_slave`  
Deprecated in version 8.0.26
- `innodb_api_bk_commit_interval`  
Deprecated in version 8.0.22
- `innodb_api_disable_rowlock`  
Deprecated in version 8.0.22
- `innodb_api_enable_binlog`  
Deprecated in version 8.0.22
- `innodb_api_enable_md1`  
Deprecated in version 8.0.22
- `innodb_api_trx_level`  
Deprecated in version 8.0.22

- `innodb_autoinc_lock_mode`

Value parameter changes in version 8.0.3:

- Default is 2, minimum is not specified, maximum is not specified

- `Innodb_available_undo_logs`

Removed in version 8.0.2

- `innodb_buffer_pool_debug`

Introduced in version 8.0.0

- `innodb_buffer_pool_in_core_file`

Introduced in version 8.0.14

- `Innodb_buffer_pool_resize_status_code`

Introduced in version 8.0.31

- `Innodb_buffer_pool_resize_status_progress`

Introduced in version 8.0.31

- `innodb_checkpoint_disabled`

Introduced in version 8.0.2

- `innodb_ddl_buffer_size`

Introduced in version 8.0.27

- `innodb_ddl_log_crash_reset_debug`

Introduced in version 8.0.3

- `innodb_ddl_threads`

Introduced in version 8.0.27

- `innodb_deadlock_detect`

Introduced in version 8.0.0

- `innodb-dedicated-server`

Introduced in version 8.0.3

- `innodb_directories`

Introduced in version 8.0.4

- `innodb_doublewrite`

Value parameter changes in version 8.0.30:

- Default is ON

- `innodb_doublewrite_batch_size`  
Introduced in version 8.0.20
- `innodb_doublewrite_dir`  
Introduced in version 8.0.20
- `innodb_doublewrite_files`  
Introduced in version 8.0.20
- `innodb_doublewrite_pages`  
Introduced in version 8.0.20
- `innodb_extend_and_initialize`  
Introduced in version 8.0.22
- `innodb_flush_neighbors`  
Value parameter changes in version 8.0.3:
  - Default is 0
- `innodb_fsync_threshold`  
Introduced in version 8.0.13
- `innodb_idle_flush_pct`  
Introduced in version 8.0.18
- `innodb_log_checkpoint_fuzzy_now`  
Introduced in version 8.0.13
- `innodb_log_file_size`  
Deprecated in version 8.0.30
- `innodb_log_files_in_group`  
Deprecated in version 8.0.30
- `innodb_log_spin_cpu_abs_lwm`  
Introduced in version 8.0.11
- `innodb_log_spin_cpu_pct_hwm`  
Introduced in version 8.0.11
- `innodb_log_wait_for_flush_spin_hwm`  
Introduced in version 8.0.11
- `innodb_log_writer_threads`

Introduced in version 8.0.22

- `innodb_max_dirty_pages_pct`

Value parameter changes in version 8.0.3:

- Default is 90, minimum is 0, maximum is 99.999

- `innodb_max_dirty_pages_pct_lwm`

Value parameter changes in version 8.0.3:

- Default is 10, minimum is 0, maximum is 99.999

- `innodb_parallel_read_threads`

Introduced in version 8.0.14

- `innodb_print_ddl_logs`

Introduced in version 8.0.3

- `innodb_redo_log_archive_dirs`

Introduced in version 8.0.17

- `innodb_redo_log_capacity`

Introduced in version 8.0.30

Value parameter changes in version 8.0.34:

- Default is 104857600, minimum is 8388608, maximum is 549755813888

- `Innodb_redo_log_capacity_resized`

Introduced in version 8.0.30

- `Innodb_redo_log_checkpoint_lsn`

Introduced in version 8.0.30

- `Innodb_redo_log_current_lsn`

Introduced in version 8.0.30

- `Innodb_redo_log_enabled`

Introduced in version 8.0.21

- `innodb_redo_log_encrypt`

Introduced in version 8.0.1

- `Innodb_redo_log_flushed_to_disk_lsn`

Introduced in version 8.0.30

- `Innodb_redo_log_logical_size`

Introduced in version 8.0.30

- `InnoDB_redo_log_physical_size`

Introduced in version 8.0.30

- `InnoDB_redo_log_read_only`

Introduced in version 8.0.30

- `InnoDB_redo_log_resize_status`

Introduced in version 8.0.30

- `InnoDB_redo_log_uuid`

Introduced in version 8.0.30

- `innodb_scan_directories`

Introduced in version 8.0.2

Removed in version 8.0.4

- `innodb_segment_reserve_factor`

Introduced in version 8.0.26

- `innodb_spin_wait_delay`

Value parameter changes in version 8.0.14:

- Default is 6, minimum is 0, maximum is 1000

- `innodb_spin_wait_pause_multiplier`

Introduced in version 8.0.16

- `innodb_stats_include_delete_marked`

Introduced in version 8.0.1

- `InnoDB_system_rows_deleted`

Introduced in version 8.0.19

- `InnoDB_system_rows_inserted`

Introduced in version 8.0.19

- `InnoDB_system_rows_read`

Introduced in version 8.0.19

- `InnoDB_system_rows_updated`

Introduced in version 8.0.19

- `innodb_temp_tablespace_dir`

Introduced in version 8.0.13

- `innodb_tmpdir`

Introduced in version 8.0.0

- `innodb_undo_log_encrypt`

Introduced in version 8.0.1

- `innodb_undo_log_truncate`

Value parameter changes in version 8.0.2:

- Default is ON

- `innodb_undo_logs`

Removed in version 8.0.2

- `innodb_undo_tablespaces`

Deprecated in version 8.0.4

Value parameter changes in version 8.0.2:

- Default is 2, minimum is 0, maximum is 127

Value parameter changes in version 8.0.3:

- Default is 2, minimum is 2, maximum is 127

- `InnoDB_undo_tablespaces_active`

Introduced in version 8.0.14

- `InnoDB_undo_tablespaces_explicit`

Introduced in version 8.0.14

- `InnoDB_undo_tablespaces_implicit`

Introduced in version 8.0.14

- `InnoDB_undo_tablespaces_total`

Introduced in version 8.0.14

- `innodb_use_fdatasync`

Introduced in version 8.0.26

- `innodb_validate_tablespace_paths`

Introduced in version 8.0.21

- `internal_tmp_disk_storage_engine`

Removed in version 8.0.16

- `internal_tmp_mem_storage_engine`  
Introduced in version 8.0.2
- `keyring_aws_cmk_id`  
Introduced in version 8.0.11
- `keyring_aws_conf_file`  
Introduced in version 8.0.11
- `keyring_aws_data_file`  
Introduced in version 8.0.11
- `keyring_aws_region`  
Introduced in version 8.0.11  
Value parameter changes in version 8.0.17:
  - Default is us-east-1Value parameter changes in version 8.0.30:
  - Default is us-east-1
- `keyring_encrypted_file_data`  
Introduced in version 8.0.11  
Deprecated in version 8.0.34
- `keyring_encrypted_file_password`  
Introduced in version 8.0.11  
Deprecated in version 8.0.34
- `keyring_file_data`  
Deprecated in version 8.0.34
- `keyring_hashicorp_auth_path`  
Introduced in version 8.0.18
- `keyring_hashicorp_ca_path`  
Introduced in version 8.0.18
- `keyring_hashicorp_caching`  
Introduced in version 8.0.18
- `keyring_hashicorp_commit_auth_path`  
Introduced in version 8.0.18

- `keyring_hashicorp_commit_ca_path`  
Introduced in version 8.0.18
- `keyring_hashicorp_commit_caching`  
Introduced in version 8.0.18
- `keyring_hashicorp_commit_role_id`  
Introduced in version 8.0.18
- `keyring_hashicorp_commit_server_url`  
Introduced in version 8.0.18
- `keyring_hashicorp_commit_store_path`  
Introduced in version 8.0.18
- `keyring_hashicorp_role_id`  
Introduced in version 8.0.18
- `keyring_hashicorp_secret_id`  
Introduced in version 8.0.18
- `keyring_hashicorp_server_url`  
Introduced in version 8.0.18
- `keyring_hashicorp_store_path`  
Introduced in version 8.0.18
- `keyring-migration-destination`  
Introduced in version 8.0.4
- `keyring-migration-host`  
Introduced in version 8.0.4
- `keyring-migration-password`  
Introduced in version 8.0.4
- `keyring-migration-port`  
Introduced in version 8.0.4
- `keyring-migration-socket`  
Introduced in version 8.0.4
- `keyring-migration-source`  
Introduced in version 8.0.4



- [keyring-migration-to-component](#)  
Introduced in version 8.0.24
- [keyring-migration-user](#)  
Introduced in version 8.0.4
- [keyring\\_oci\\_ca\\_certificate](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_compartment](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_encryption\\_endpoint](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_key\\_file](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_key\\_fingerprint](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_management\\_endpoint](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_master\\_key](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_secrets\\_endpoint](#)  
Introduced in version 8.0.22  
Deprecated in version 8.0.31
- [keyring\\_oci\\_tenancy](#)  
Introduced in version 8.0.22

Deprecated in version 8.0.31

- `keyring_oci_user`

Introduced in version 8.0.22

Deprecated in version 8.0.31

- `keyring_oci_vaults_endpoint`

Introduced in version 8.0.22

Deprecated in version 8.0.31

- `keyring_oci_virtual_vault`

Introduced in version 8.0.22

Deprecated in version 8.0.31

- `keyring_okv_conf_dir`

Introduced in version 8.0.11

- `keyring_operations`

Introduced in version 8.0.4

- `local_infile`

Value parameter changes in version 8.0.2:

- Default is OFF

- `lock_order`

Introduced in version 8.0.17

- `lock_order_debug_loop`

Introduced in version 8.0.17

- `lock_order_debug_missing_arc`

Introduced in version 8.0.17

- `lock_order_debug_missing_key`

Introduced in version 8.0.17

- `lock_order_debug_missing_unlock`

Introduced in version 8.0.17

- `lock_order_dependencies`

Introduced in version 8.0.17

- `lock_order_extra_dependencies`

Introduced in version 8.0.17

- `lock_order_output_directory`

Introduced in version 8.0.17

- `lock_order_print_txt`

Introduced in version 8.0.17

- `lock_order_trace_loop`

Introduced in version 8.0.17

- `lock_order_trace_missing_arc`

Introduced in version 8.0.17

- `lock_order_trace_missing_key`

Introduced in version 8.0.17

- `lock_order_trace_missing_unlock`

Introduced in version 8.0.17

- `log_bin_trust_function_creators`

Deprecated in version 8.0.34

- `log_bin_use_v1_row_events`

Deprecated in version 8.0.18

- `log_built_in_as_identified_by_password`

Removed in version 8.0.11

- `log_error_filter_rules`

Introduced in version 8.0.2

Removed in version 8.0.4

- `log_error_services`

Introduced in version 8.0.2

- `log_error_suppression_list`

Introduced in version 8.0.13

- `log_error_verbosity`

Value parameter changes in version 8.0.4:

- Default is 2, minimum is 1, maximum is 3

- `log_replica_updates`

Introduced in version 8.0.26

- `log_slave_updates`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.3:

- Default is ON

- `log_slow_extra`

Introduced in version 8.0.14

- `log_slow_replica_statements`

Introduced in version 8.0.26

- `log_slow_slave_statements`

Deprecated in version 8.0.26

- `log_statements_unsafe_for_binlog`

Deprecated in version 8.0.34

- `log_syslog`

Removed in version 8.0.13

Deprecated in version 8.0.2

Value parameter changes in version 8.0.2:

- Default is ON (when error logging to system log is enabled)

- `log_syslog_facility`

Removed in version 8.0.13

- `log_syslog_include_pid`

Removed in version 8.0.13

- `log_syslog_tag`

Removed in version 8.0.13

- `log-warnings`

Removed in version 8.0.3

- `mandatory_roles`

Introduced in version 8.0.2

- `master-info-file`

Deprecated in version 8.0.18

- `master_info_repository`  
Deprecated in version 8.0.23  
Value parameter changes in version 8.0.2:
  - Default is TABLE
- `master_verify_checksum`  
Deprecated in version 8.0.26
- `max_allowed_packet`  
Value parameter changes in version 8.0.3:
  - Default is 67108864, minimum is 1024, maximum is 1073741824
- `max_error_count`  
Value parameter changes in version 8.0.3:
  - Default is 1024, minimum is 0, maximum is 65535
- `max_length_for_sort_data`  
Deprecated in version 8.0.20  
Value parameter changes in version 8.0.1:
  - Default is 4096, minimum is 4, maximum is 8388608
- `max_prepared_stmt_count`  
Value parameter changes in version 8.0.18:
  - Default is 16382, minimum is 0, maximum is 4194304
- `max_tmp_tables`  
Removed in version 8.0.3
- `metadata_locks_cache_size`  
Removed in version 8.0.13
- `metadata_locks_hash_instances`  
Removed in version 8.0.13
- `multi_range_count`  
Removed in version 8.0.3
- `myisam_repair_threads`  
Removed in version 8.0.30  
Deprecated in version 8.0.29

- `mysql_firewall_mode`  
Introduced in version 8.0.11
- `mysql_firewall_trace`  
Introduced in version 8.0.11
- `mysql_native_password_proxy_users`  
Deprecated in version 8.0.16
- `mysqlx`  
Introduced in version 8.0.11
- `Mysqlx_bytes_received_compressed_payload`  
Introduced in version 8.0.19
- `Mysqlx_bytes_received_uncompressed_frame`  
Introduced in version 8.0.19
- `Mysqlx_bytes_sent_compressed_payload`  
Introduced in version 8.0.19
- `Mysqlx_bytes_sent_uncompressed_frame`  
Introduced in version 8.0.19
- `Mysqlx_compression_algorithm`  
Introduced in version 8.0.20
- `mysqlx_compression_algorithms`  
Introduced in version 8.0.19
- `Mysqlx_compression_level`  
Introduced in version 8.0.20
- `mysqlx_deflate_default_compression_level`  
Introduced in version 8.0.20
- `mysqlx_deflate_max_client_compression_level`  
Introduced in version 8.0.20
- `mysqlx_interactive_timeout`  
Introduced in version 8.0.4
- `mysqlx_lz4_default_compression_level`  
Introduced in version 8.0.20

- `mysqlx_lz4_max_client_compression_level`  
Introduced in version 8.0.20
- `mysqlx_read_timeout`  
Introduced in version 8.0.4
- `mysqlx_wait_timeout`  
Introduced in version 8.0.4
- `mysqlx_write_timeout`  
Introduced in version 8.0.4
- `mysqlx_zstd_default_compression_level`  
Introduced in version 8.0.20
- `mysqlx_zstd_max_client_compression_level`  
Introduced in version 8.0.20
- `named_pipe_full_access_group`  
Introduced in version 8.0.14
- `Ndb_api_adaptive_send_deferred_count_replica`  
Introduced in version 8.0.23-ndb-8.0.23
- `Ndb_api_adaptive_send_deferred_count_slave`  
Deprecated in version 8.0.23-ndb-8.0.23
- `Ndb_api_adaptive_send_forced_count_replica`  
Introduced in version 8.0.23-ndb-8.0.23
- `Ndb_api_adaptive_send_forced_count_slave`  
Deprecated in version 8.0.23-ndb-8.0.23
- `Ndb_api_adaptive_send_unforced_count_replica`  
Introduced in version 8.0.23-ndb-8.0.23
- `Ndb_api_adaptive_send_unforced_count_slave`  
Deprecated in version 8.0.23-ndb-8.0.23
- `Ndb_api_bytes_received_count_replica`  
Introduced in version 8.0.23-ndb-8.0.23
- `Ndb_api_bytes_received_count_slave`  
Deprecated in version 8.0.23-ndb-8.0.23

- [Ndb\\_api\\_bytes\\_sent\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_bytes\\_sent\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_pk\\_op\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_pk\\_op\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_pruned\\_scan\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_pruned\\_scan\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_range\\_scan\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_range\\_scan\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_read\\_row\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_read\\_row\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_scan\\_batch\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_scan\\_batch\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_table\\_scan\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_table\\_scan\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_abort\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23



- [Ndb\\_api\\_trans\\_abort\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_close\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_close\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_commit\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_commit\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_local\\_read\\_row\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_local\\_read\\_row\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_start\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_trans\\_start\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_uk\\_op\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_uk\\_op\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_wait\\_exec\\_complete\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_wait\\_exec\\_complete\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_wait\\_meta\\_request\\_count\\_replica](#)  
Introduced in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_wait\\_meta\\_request\\_count\\_slave](#)  
Deprecated in version 8.0.23-ndb-8.0.23
- [Ndb\\_api\\_wait\\_nanos\\_count\\_replica](#)

Introduced in version 8.0.23-ndb-8.0.23

- `Ndb_api_wait_nanos_count_slave`

Deprecated in version 8.0.23-ndb-8.0.23

- `Ndb_api_wait_scan_result_count_replica`

Introduced in version 8.0.23-ndb-8.0.23

- `Ndb_api_wait_scan_result_count_slave`

Deprecated in version 8.0.23-ndb-8.0.23

- `ndb-applier-allow-skip-epoch`

Introduced in version 8.0.28-ndb-8.0.28

- `ndb_autoincrement_prefetch_sz`

Value parameter changes in version 8.0.19-ndb-8.0.19:

- Default is 512, minimum is 1, maximum is 65536

- `ndb-batch-size`

Value parameter changes in version 8.0.29-ndb-8.0.29:

- Default is 32768, minimum is 0, maximum is 2147483648

- `ndb_cache_check_time`

Removed in version 8.0.1

- `Ndb_config_generation`

Introduced in version 8.0.24-ndb-8.0.24

- `Ndb_conflict_fn_max_del_win_ins`

Introduced in version 8.0.30-ndb-8.0.30

- `Ndb_conflict_fn_max_ins`

Introduced in version 8.0.30-ndb-8.0.30

- `ndb_conflict_role`

Introduced in version 8.0.23-ndb-8.0.23

- `ndb_dbg_check_shares`

Introduced in version 8.0.13-ndb-8.0.13

- `ndb_eventbuffer_max_alloc`

Value parameter changes in version 8.0.26-ndb-8.0.26:

- Default is 0, minimum is 0, maximum is 9223372036854775807

- `ndb_log_bin`  
Value parameter changes in version 8.0.16-ndb-8.0.16:
  - Default is OFF
- `ndb_log_cache_size`  
Introduced in version 8.0.40-ndb\_8.0.40
- `ndb-log-fail-terminate`  
Introduced in version 8.0.21-ndb-8.0.21
- `ndb_log_transaction_compression`  
Introduced in version 8.0.31-ndb-8.0.31
- `ndb_log_transaction_compression_level_zstd`  
Introduced in version 8.0.31-ndb-8.0.31
- `ndb-log-transaction-dependency`  
Introduced in version 8.0.33-ndb-8.0.33
- `Ndb_metadata_blacklist_size`  
Introduced in version 8.0.18-ndb-8.0.18  
Removed in version 8.0.22-ndb-8.0.22  
Deprecated in version 8.0.21-ndb-8.0.21
- `ndb_metadata_check`  
Introduced in version 8.0.16-ndb-8.0.16
- `ndb_metadata_check_interval`  
Introduced in version 8.0.16-ndb-8.0.16
- `Ndb_metadata_detected_count`  
Introduced in version 8.0.16-ndb-8.0.16
- `Ndb_metadata_excluded_count`  
Introduced in version 8.0.18-ndb-8.0.22
- `ndb_metadata_sync`  
Introduced in version 8.0.19-ndb-8.0.19
- `Ndb_metadata_synced_count`  
Introduced in version 8.0.18-ndb-8.0.18
- `ndb_read_backup`

Value parameter changes in version 8.0.19-ndb-8.0.19:

- Default is ON
- `ndb_replica_batch_size`  
Introduced in version 8.0.30-ndb-8.0.30
- `ndb_replica_blob_write_batch_bytes`  
Introduced in version 8.0.30-ndb-8.0.30
- `Ndb_replica_max_replicated_epoch`  
Deprecated in version 8.0.23-ndb-8.0.23
- `ndb_schema_dist_lock_wait_timeout`  
Introduced in version 8.0.18-ndb-8.0.18
- `ndb-schema-dist-timeout`  
Introduced in version 8.0.17-ndb-8.0.17
- `ndb_schema_dist_timeout`  
Introduced in version 8.0.16-ndb-8.0.16
- `ndb_schema_dist_upgrade_allowed`  
Introduced in version 8.0.17-ndb-8.0.17
- `ndb_slave_conflict_role`  
Deprecated in version 8.0.23-ndb-8.0.23
- `Ndb_trans_hint_count_session`  
Introduced in version 8.0.17-ndb-8.0.17
- `ndb-wait-connected`

Value parameter changes in version 8.0.27-ndb-8.0.27:

- Default is 120, minimum is 0, maximum is 31536000
- `ndb-wait-setup`  
Value parameter changes in version 8.0.27-ndb-8.0.27:
  - Default is 120, minimum is 0, maximum is 31536000
- `ndbcluster`

Value parameter changes in version 8.0.13-ndb-8.0.13:

- Default is ON
- `ndbinfo`

Introduced in version 8.0.13-ndb-8.0.13

- `new`

Deprecated in version 8.0.35

- `no-dd-upgrade`

Introduced in version 8.0.4

Deprecated in version 8.0.16

- `no-monitor`

Introduced in version 8.0.12

- `old`

Deprecated in version 8.0.35

- `old_passwords`

Removed in version 8.0.11

- `old-style-user-limits`

Deprecated in version 8.0.30

- `optimizer_switch`

Value parameter changes in version 8.0.3:

- Default is not specified

Value parameter changes in version 8.0.13:

- Default is not specified

Value parameter changes in version 8.0.18:

- Default is not specified

Value parameter changes in version 8.0.21:

- Default is not specified

Value parameter changes in version 8.0.22:

- Default is not specified

- `optimizer_trace_max_mem_size`

Value parameter changes in version 8.0.4:

- Default is 1048576, minimum is 0, maximum is 4294967295

- `original_commit_timestamp`

Introduced in version 8.0.1

- `original_server_version`  
Introduced in version 8.0.14
- `partial_revokes`  
Introduced in version 8.0.16
- `password_history`  
Introduced in version 8.0.3
- `password_require_current`  
Introduced in version 8.0.13
- `password_reuse_interval`  
Introduced in version 8.0.3
- `performance-schema-consumer-events-statements-cpu`  
Introduced in version 8.0.28
- `performance_schema_max_cond_classes`  
Value parameter changes in version 8.0.12:
  - Default is 80, minimum is 0, maximum is 1024Value parameter changes in version 8.0.13:
  - Default is 100, minimum is 0, maximum is 1024Value parameter changes in version 8.0.27:
  - Default is 150, minimum is 0, maximum is 1024
- `performance_schema_max_digest_sample_age`  
Introduced in version 8.0.3
- `performance_schema_max_file_classes`  
Value parameter changes in version 8.0.12:
  - Default is 80, minimum is 0, maximum is 1024
- `performance_schema_max_memory_classes`  
Value parameter changes in version 8.0.1:
  - Default is 450, minimum is 0, maximum is 1024
- `performance_schema_max_mutex_classes`  
Value parameter changes in version 8.0.1:
  - Default is 220, minimum is 0, maximum is 256

Value parameter changes in version 8.0.3:

- Default is 250, minimum is 0, maximum is 256

Value parameter changes in version 8.0.12:

- Default is 300, minimum is 0, maximum is 1024

Value parameter changes in version 8.0.27:

- Default is 350, minimum is 0, maximum is 1024
- [performance\\_schema\\_max\\_rwlock\\_classes](#)

Value parameter changes in version 8.0.3:

- Default is 60, minimum is 0, maximum is 256

Value parameter changes in version 8.0.12:

- Default is 100, minimum is 0, maximum is 1024
- [performance\\_schema\\_max\\_socket\\_classes](#)

Value parameter changes in version 8.0.12:

- Default is 10, minimum is 0, maximum is 1024
- [performance\\_schema\\_max\\_stage\\_classes](#)

Value parameter changes in version 8.0.12:

- Default is 150, minimum is 0, maximum is 1024

Value parameter changes in version 8.0.13:

- Default is 175, minimum is 0, maximum is 1024
- [performance\\_schema\\_max\\_thread\\_classes](#)

Value parameter changes in version 8.0.3:

- Default is 100, minimum is 0, maximum is 256

Value parameter changes in version 8.0.12:

- Default is 100, minimum is 0, maximum is 1024
- [performance\\_schema\\_show\\_processlist](#)

Introduced in version 8.0.22

Deprecated in version 8.0.35

- [persist\\_only\\_admin\\_x509\\_subject](#)

Introduced in version 8.0.14

- [persist\\_sensitive\\_variables\\_in\\_plaintext](#)

Introduced in version 8.0.29

- `persisted_globals_load`

Introduced in version 8.0.0

- `print_identified_with_as_hex`

Introduced in version 8.0.17

- `protocol_compression_algorithms`

Introduced in version 8.0.18

- `pseudo_replica_mode`

Introduced in version 8.0.26

- `pseudo_slave_mode`

Deprecated in version 8.0.26

- `Qcache_free_blocks`

Removed in version 8.0.3

- `Qcache_free_memory`

Removed in version 8.0.3

- `Qcache_hits`

Removed in version 8.0.3

- `Qcache_inserts`

Removed in version 8.0.3

- `Qcache_lowmem_prunes`

Removed in version 8.0.3

- `Qcache_not_cached`

Removed in version 8.0.3

- `Qcache_queries_in_cache`

Removed in version 8.0.3

- `Qcache_total_blocks`

Removed in version 8.0.3

- `query_cache_limit`

Removed in version 8.0.3

- `query_cache_min_res_unit`



Removed in version 8.0.3

- `query_cache_size`

Removed in version 8.0.3

Value parameter changes in version 8.0.1 (bitsize=64):

- Default is 0, minimum is 0, maximum is 18446744073709551615

Value parameter changes in version 8.0.1 (bitsize=32):

- Default is 0, minimum is 0, maximum is 4294967295

- `query_cache_type`

Removed in version 8.0.3

- `query_cache_wlock_invalidate`

Removed in version 8.0.3

- `query_prealloc_size`

Deprecated in version 8.0.29

- `regexp_stack_limit`

Introduced in version 8.0.4

- `regexp_time_limit`

Introduced in version 8.0.4

- `relay_log_info_file`

Deprecated in version 8.0.18

- `relay_log_info_repository`

Deprecated in version 8.0.23

Value parameter changes in version 8.0.2:

- Default is TABLE

- `replica_allow_batching`

Introduced in version 8.0.26-ndb-8.0.26

Value parameter changes in version 8.0.30-ndb-8.0.30:

- Default is ON

- `replica_checkpoint_group`

Introduced in version 8.0.26

- `replica_checkpoint_period`

Introduced in version 8.0.26

- `replica_compressed_protocol`

Introduced in version 8.0.26

- `replica_exec_mode`

Introduced in version 8.0.26

- `replica_load_tmpdir`

Introduced in version 8.0.26

- `replica_max_allowed_packet`

Introduced in version 8.0.26

- `replica_net_timeout`

Introduced in version 8.0.26

- `Replica_open_temp_tables`

Introduced in version 8.0.26

- `replica_parallel_type`

Introduced in version 8.0.26

Deprecated in version 8.0.29

Value parameter changes in version 8.0.27:

- Default is LOGICAL\_CLOCK

- `replica_parallel_workers`

Introduced in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is 4, minimum is 0, maximum is 1024

- `replica_pending_jobs_size_max`

Introduced in version 8.0.26

- `replica_preserve_commit_order`

Introduced in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is ON

- `Replica_rows_last_search_algorithm_used`

Introduced in version 8.0.26

- `replica_skip_errors`  
Introduced in version 8.0.26
- `replica_sql_verify_checksum`  
Introduced in version 8.0.26
- `replica_transaction_retries`  
Introduced in version 8.0.26
- `replica_type_conversions`  
Introduced in version 8.0.26
- `replication_optimize_for_static_plugin_config`  
Introduced in version 8.0.23
- `replication_sender_observe_commit_only`  
Introduced in version 8.0.23
- `require_row_format`  
Introduced in version 8.0.19
- `Resource_group_supported`  
Introduced in version 8.0.31
- `resultset_metadata`  
Introduced in version 8.0.3
- `rewriter_enabled_for_threads_without_privilege_checks`  
Introduced in version 8.0.31
- `rpl_read_size`  
Introduced in version 8.0.11
- `rpl_semi_sync_replica_enabled`  
Introduced in version 8.0.26
- `Rpl_semi_sync_replica_status`  
Introduced in version 8.0.26
- `rpl_semi_sync_replica_trace_level`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_clients`  
Introduced in version 8.0.26

- `rpl_semi_sync_source_enabled`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_net_avg_wait_time`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_net_wait_time`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_net_waits`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_no_times`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_no_tx`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_status`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_timefunc_failures`  
Introduced in version 8.0.26
- `rpl_semi_sync_source_timeout`  
Introduced in version 8.0.26
- `rpl_semi_sync_source_trace_level`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_tx_avg_wait_time`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_tx_wait_time`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_tx_waits`  
Introduced in version 8.0.26
- `rpl_semi_sync_source_wait_for_replica_count`  
Introduced in version 8.0.26
- `rpl_semi_sync_source_wait_no_replica`  
Introduced in version 8.0.26

- `rpl_semi_sync_source_wait_point`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_wait_pos_backtraverse`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_wait_sessions`  
Introduced in version 8.0.26
- `Rpl_semi_sync_source_yes_tx`  
Introduced in version 8.0.26
- `rpl_stop_replica_timeout`  
Introduced in version 8.0.26
- `rpl_stop_slave_timeout`  
Deprecated in version 8.0.26
- `Rsa_public_key`  
Deprecated in version 8.0.16
- `safe-user-create`  
Deprecated in version 8.0.11
- `schema_definition_cache`  
Introduced in version 8.0.0
- `secondary_engine_cost_threshold`  
Introduced in version 8.0.16
- `Secondary_engine_execution_count`  
Introduced in version 8.0.13
- `secure_auth`  
Removed in version 8.0.3
- `select_into_buffer_size`  
Introduced in version 8.0.22
- `select_into_disk_sync`  
Introduced in version 8.0.22
- `select_into_disk_sync_delay`  
Introduced in version 8.0.22

- `server_id`  
Value parameter changes in version 8.0.3:
  - Default is 1, minimum is 0, maximum is 4294967295
- `sha256_password_auto_generate_rsa_keys`  
Deprecated in version 8.0.16
- `sha256_password_private_key_path`  
Deprecated in version 8.0.16
- `sha256_password_proxy_users`  
Deprecated in version 8.0.16
- `sha256_password_public_key_path`  
Deprecated in version 8.0.16
- `show_compatibility_56`  
Removed in version 8.0.1
- `show_create_table_skip_secondary_engine`  
Introduced in version 8.0.18
- `show_create_table_verbosity`  
Introduced in version 8.0.11
- `show_gipk_in_create_table_and_information_schema`  
Introduced in version 8.0.30
- `show-replica-auth-info`  
Introduced in version 8.0.26
- `show-slave-auth-info`  
Deprecated in version 8.0.26
- `skip-character-set-client-handshake`  
Deprecated in version 8.0.35
- `skip-host-cache`  
Deprecated in version 8.0.30
- `skip-new`  
Deprecated in version 8.0.35
- `skip-replica-start`

Introduced in version 8.0.26

- `skip-slave-start`

Deprecated in version 8.0.26

- `skip-ssl`

Deprecated in version 8.0.26

- `slave_allow_batching`

Deprecated in version 8.0.26-ndb-8.0.26

Value parameter changes in version 8.0.30-ndb-8.0.30:

- Default is ON

- `slave_checkpoint_group`

Deprecated in version 8.0.26

- `slave_checkpoint_period`

Deprecated in version 8.0.26

- `slave_compressed_protocol`

Deprecated in version 8.0.18

- `Slave_heartbeat_period`

Removed in version 8.0.1

- `Slave_last_heartbeat`

Removed in version 8.0.1

- `slave_load_tmpdir`

Deprecated in version 8.0.26

- `slave_max_allowed_packet`

Deprecated in version 8.0.26

- `slave_net_timeout`

Deprecated in version 8.0.26

- `Slave_open_temp_tables`

Deprecated in version 8.0.26

- `slave_parallel_type`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is LOGICAL\_CLOCK
- `slave_parallel_workers`  
Deprecated in version 8.0.26  
Value parameter changes in version 8.0.27:
  - Default is 4, minimum is 0, maximum is 1024
- `slave_pending_jobs_size_max`  
Deprecated in version 8.0.26  
Value parameter changes in version 8.0.12:
  - Default is 128M, minimum is 1024, maximum is 16EiB
- `slave_preserve_commit_order`  
Deprecated in version 8.0.26  
Value parameter changes in version 8.0.27:
  - Default is ON
- `Slave_received_heartbeats`  
Removed in version 8.0.1
- `Slave_retried_transactions`  
Removed in version 8.0.1
- `slave_rows_last_search_algorithm_used`  
Deprecated in version 8.0.26
- `slave_rows_search_algorithms`  
Deprecated in version 8.0.18  
Value parameter changes in version 8.0.2:
  - Default is INDEX\_SCAN,HASH\_SCAN
- `Slave_running`  
Removed in version 8.0.1
- `slave-skip-errors`  
Deprecated in version 8.0.26
- `slave_sql_verify_checksum`  
Deprecated in version 8.0.26
- `slave_transaction_retries`



Deprecated in version 8.0.26

- [slave\\_type\\_conversions](#)

Deprecated in version 8.0.26

- [source\\_verify\\_checksum](#)

Introduced in version 8.0.26

- [sql\\_generate\\_invisible\\_primary\\_key](#)

Introduced in version 8.0.30

- [sql-mode](#)

Value parameter changes in version 8.0.1:

- Default is ONLY\_FULL\_GROUP\_BY STRICT\_TRANS\_TABLES NO\_ZERO\_IN\_DATE NO\_ZERO\_DATE ERROR\_FOR\_DIVISION\_BY\_ZERO NO\_AUTO\_CREATE\_USER NO\_ENGINE\_SUBSTITUTION

Value parameter changes in version 8.0.11:

- Default is ONLY\_FULL\_GROUP\_BY STRICT\_TRANS\_TABLES NO\_ZERO\_IN\_DATE NO\_ZERO\_DATE ERROR\_FOR\_DIVISION\_BY\_ZERO NO\_ENGINE\_SUBSTITUTION

- [sql\\_replica\\_skip\\_counter](#)

Introduced in version 8.0.26

- [sql\\_require\\_primary\\_key](#)

Introduced in version 8.0.13

- [sql\\_slave\\_skip\\_counter](#)

Deprecated in version 8.0.26

- [ssl](#)

Deprecated in version 8.0.26

- [ssl\\_fips\\_mode](#)

Introduced in version 8.0.11

Deprecated in version 8.0.34

- [ssl\\_session\\_cache\\_mode](#)

Introduced in version 8.0.29

- [Ssl\\_session\\_cache\\_timeout](#)

Introduced in version 8.0.29

- [ssl\\_session\\_cache\\_timeout](#)

Introduced in version 8.0.29

- `symbolic-links`

Deprecated in version 8.0.2

Value parameter changes in version 8.0.2:

- Default is OFF

- `sync_master_info`

Deprecated in version 8.0.26

- `sync_relay_log_info`

Deprecated in version 8.0.34

- `sync_source_info`

Introduced in version 8.0.26

- `syseventlog.facility`

Introduced in version 8.0.13

- `syseventlog.include_pid`

Introduced in version 8.0.13

- `syseventlog.tag`

Introduced in version 8.0.13

- `table_encryption_privilege_check`

Introduced in version 8.0.16

- `table_open_cache`

Value parameter changes in version 8.0.4:

- Default is 4000, minimum is 1, maximum is 524288

- `tablespace_definition_cache`

Introduced in version 8.0.0

- `Telemetry_traces_supported`

Introduced in version 8.0.33

- `temp-pool`

Removed in version 8.0.1

- `temptable_max_mmap`

Introduced in version 8.0.23

- `temptable_max_ram`  
Introduced in version 8.0.2
- `temptable_use_mmap`  
Introduced in version 8.0.16  
Deprecated in version 8.0.26
- `terminology_use_previous`  
Introduced in version 8.0.26
- `thread_pool_algorithm`  
Introduced in version 8.0.11
- `thread_pool_dedicated_listeners`  
Introduced in version 8.0.23
- `thread_pool_high_priority_connection`  
Introduced in version 8.0.11
- `thread_pool_max_active_query_threads`  
Introduced in version 8.0.19
- `thread_pool_max_transactions_limit`  
Introduced in version 8.0.23
- `thread_pool_max_unused_threads`  
Introduced in version 8.0.11
- `thread_pool_prio_kickup_timer`  
Introduced in version 8.0.11
- `thread_pool_query_threads_per_group`  
Introduced in version 8.0.31
- `thread_pool_size`  
Introduced in version 8.0.11  
Value parameter changes in version 8.0.19:
  - Default is 16, minimum is 1, maximum is 512
- `thread_pool_stall_limit`  
Introduced in version 8.0.11
- `thread_pool_transaction_delay`

Introduced in version 8.0.31

- `thread_stack`

Value parameter changes in version 8.0.2 (bitsize=64):

- Default is 286720, minimum is 131072, maximum is 18446744073709550592

Value parameter changes in version 8.0.27 (bitsize=64):

- Default is 1048576, minimum is 131072, maximum is 18446744073709550592

Value parameter changes in version 8.0.2 (bitsize=32):

- Default is 221184, minimum is 131072, maximum is 4294966272

Value parameter changes in version 8.0.27 (bitsize=32):

- Default is 1048576, minimum is 131072, maximum is 4294966272

- `time_format`

Removed in version 8.0.3

- `time_zone`

Value parameter changes in version 8.0.19:

- Default is SYSTEM

- `tls_ciphersuites`

Introduced in version 8.0.16

- `Tls_library_version`

Introduced in version 8.0.30

- `tls_version`

Value parameter changes in version 8.0.16:

- Default is TLSv1,TLSv1.1,TLSv1.2,TLSv1.3

Value parameter changes in version 8.0.28:

- Default is TLSv1.2,TLSv1.3

- `transaction_prealloc_size`

Deprecated in version 8.0.29

- `transaction_write_set_extraction`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.2:

- Default is XXHASH64

- `tx_isolation`  
Removed in version 8.0.3
- `tx_read_only`  
Removed in version 8.0.3
- `upgrade`  
Introduced in version 8.0.16
- `use_secondary_engine`  
Introduced in version 8.0.13
- `validate-config`  
Introduced in version 8.0.16
- `validate_password.changed_characters_percentage`  
Introduced in version 8.0.34
- `validate_password.check_user_name`  
Introduced in version 8.0.4
- `validate_password.dictionary_file`  
Introduced in version 8.0.4
- `validate_password.dictionary_file_last_parsed`  
Introduced in version 8.0.4
- `validate_password.dictionary_file_words_count`  
Introduced in version 8.0.4
- `validate_password.length`  
Introduced in version 8.0.4
- `validate_password.mixed_case_count`  
Introduced in version 8.0.4
- `validate_password.number_count`  
Introduced in version 8.0.4
- `validate_password.policy`  
Introduced in version 8.0.4
- `validate_password.special_char_count`  
Introduced in version 8.0.4

- `version_compile_zlib`

Introduced in version 8.0.11

- `windowing_use_high_precision`

Introduced in version 8.0.2

- `xa_detach_on_prepare`

Introduced in version 8.0.29

## 1.3 Option and Variable Changes for MySQL 8.1

The following list details the changes to specific options and variables within MySQL 8.1.

- `Audit_log_direct_writes`

Introduced in version 8.1.0

- `authentication_ldap_sasl_connect_timeout`

Introduced in version 8.1.0

- `authentication_ldap_sasl_response_timeout`

Introduced in version 8.1.0

- `authentication_ldap_simple_connect_timeout`

Introduced in version 8.1.0

- `authentication_ldap_simple_response_timeout`

Introduced in version 8.1.0

- `Gr_all_consensus_proposals_count`

Introduced in version 8.1.0

- `Gr_all_consensus_time_sum`

Introduced in version 8.1.0

- `Gr_certification_garbage_collector_count`

Introduced in version 8.1.0

- `Gr_certification_garbage_collector_time_sum`

Introduced in version 8.1.0

- `Gr_consensus_bytes_received_sum`

Introduced in version 8.1.0

- `Gr_consensus_bytes_sent_sum`

Introduced in version 8.1.0

- `Gr_control_messages_sent_bytes_sum`  
Introduced in version 8.1.0
- `Gr_control_messages_sent_count`  
Introduced in version 8.1.0
- `Gr_control_messages_sent_roundtrip_time_sum`  
Introduced in version 8.1.0
- `Gr_data_messages_sent_bytes_sum`  
Introduced in version 8.1.0
- `Gr_data_messages_sent_count`  
Introduced in version 8.1.0
- `Gr_data_messages_sent_roundtrip_time_sum`  
Introduced in version 8.1.0
- `Gr_empty_consensus_proposals_count`  
Introduced in version 8.1.0
- `Gr_extended_consensus_count`  
Introduced in version 8.1.0
- `Gr_last_consensus_end_timestamp`  
Introduced in version 8.1.0
- `Gr_total_messages_sent_count`  
Introduced in version 8.1.0
- `Gr_transactions_consistency_after_sync_count`  
Introduced in version 8.1.0
- `Gr_transactions_consistency_after_sync_time_sum`  
Introduced in version 8.1.0
- `Gr_transactions_consistency_after_termination_count`  
Introduced in version 8.1.0
- `Gr_transactions_consistency_after_termination_time_sum`  
Introduced in version 8.1.0
- `Gr_transactions_consistency_before_begin_count`  
Introduced in version 8.1.0

- `Gr_transactions_consistency_before_begin_time_sum`  
Introduced in version 8.1.0
- `telemetry.live_sessions`  
Introduced in version 8.1.0
- `telemetry.otel_bsp_max_export_batch_size`  
Introduced in version 8.1.0
- `telemetry.otel_bsp_max_queue_size`  
Introduced in version 8.1.0
- `telemetry.otel_bsp_schedule_delay`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_certificates`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_client_certificates`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_client_key`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_compression`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_endpoint`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_headers`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_protocol`  
Introduced in version 8.1.0
- `telemetry.otel_exporter_otlp_traces_timeout`  
Introduced in version 8.1.0
- `telemetry.otel_log_level`  
Introduced in version 8.1.0
- `telemetry.otel_resource_attributes`  
Introduced in version 8.1.0



- `telemetry.query_text_enabled`  
Introduced in version 8.1.0
- `telemetry.trace_enabled`  
Introduced in version 8.1.0
- `tls_certificates_enforced_validation`  
Introduced in version 8.1.0
- `Tls_sni_server_name`  
Introduced in version 8.1.0

## 1.4 Option and Variable Changes for MySQL 8.2

The following list details the changes to specific options and variables within MySQL 8.2.

- `abort-slave-event-count`  
Removed in version 8.2.0
- `authentication_fido_rp_id`  
Deprecated in version 8.2.0
- `authentication_webauthn_rp_id`  
Introduced in version 8.2.0
- `binlog_transaction_dependency_tracking`  
Deprecated in version 8.2.0
- `character-set-client-handshake`  
Deprecated in version 8.2.0
- `Com_show_binary_log_status`  
Introduced in version 8.2.0
- `Com_show_master_status`  
Deprecated in version 8.2.0
- `disconnect-slave-event-count`  
Removed in version 8.2.0
- `expire_logs_days`  
Removed in version 8.2.0
- `mysql_firewall_database`  
Introduced in version 8.2.0

- `mysql_firewall_reload_interval_seconds`  
Introduced in version 8.2.0
- `new`  
Deprecated in version 8.2.0
- `old`  
Deprecated in version 8.2.0
- `performance_schema_max_meter_classes`  
Introduced in version 8.2.0
- `performance_schema_max_metric_classes`  
Introduced in version 8.2.0
- `Performance_schema_meter_lost`  
Introduced in version 8.2.0
- `Performance_schema_metric_lost`  
Introduced in version 8.2.0
- `performance_schema_show_processlist`  
Deprecated in version 8.2.0
- `set_operations_buffer_size`  
Introduced in version 8.2.0
- `skip-character-set-client-handshake`  
Deprecated in version 8.2.0
- `skip-new`  
Deprecated in version 8.2.0
- `Telemetry_metrics_supported`  
Introduced in version 8.2.0

## 1.5 Option and Variable Changes for MySQL 8.3

The following list details the changes to specific options and variables within MySQL 8.3.

- `character-set-client-handshake`  
Removed in version 8.3.0
- `component_masking.dictionaries_flush_interval_seconds`  
Introduced in version 8.3.0

- `component_masking.masking_database`  
Introduced in version 8.3.0
- `daemon_memcached_enable_binlog`  
Removed in version 8.3.0
- `daemon_memcached_engine_lib_name`  
Removed in version 8.3.0
- `daemon_memcached_engine_lib_path`  
Removed in version 8.3.0
- `daemon_memcached_option`  
Removed in version 8.3.0
- `daemon_memcached_r_batch_size`  
Removed in version 8.3.0
- `daemon_memcached_w_batch_size`  
Removed in version 8.3.0
- `Deprecated_use_i_s_processlist_count`  
Introduced in version 8.3.0
- `Deprecated_use_i_s_processlist_last_timestamp`  
Introduced in version 8.3.0
- `explain_json_format_version`  
Introduced in version 8.3.0
- `group_replication_ip_whitelist`  
Removed in version 8.3.0
- `group_replication_primary_member`  
Removed in version 8.3.0
- `group_replication_view_change_uuid`  
Deprecated in version 8.3.0
- `innodb`  
Removed in version 8.3.0
- `innodb_api_bk_commit_interval`  
Removed in version 8.3.0

- `innodb_api_disable_rowlock`  
Removed in version 8.3.0
- `innodb_api_enable_binlog`  
Removed in version 8.3.0
- `innodb_api_enable_md1`  
Removed in version 8.3.0
- `innodb_api_trx_level`  
Removed in version 8.3.0
- `log_bin_use_v1_row_events`  
Removed in version 8.3.0
- `master-info-file`  
Removed in version 8.3.0
- `master_info_repository`  
Removed in version 8.3.0
- `ndb-mgm-tls`  
Introduced in version 8.3.0-ndb-8.3.0
- `ndb-tls-search-path`  
Introduced in version 8.3.0-ndb-8.3.0
- `old-style-user-limits`  
Removed in version 8.3.0
- `relay_log_info_file`  
Removed in version 8.3.0
- `relay_log_info_repository`  
Removed in version 8.3.0
- `Replica_rows_last_search_algorithm_used`  
Removed in version 8.3.0
- `skip-character-set-client-handshake`  
Removed in version 8.3.0
- `skip-host-cache`  
Removed in version 8.3.0

- `slave_rows_search_algorithms`  
Removed in version 8.3.0
- `telemetry.metrics_reader_frequency_1`  
Introduced in version 8.3.0
- `telemetry.metrics_reader_frequency_2`  
Introduced in version 8.3.0
- `telemetry.metrics_reader_frequency_3`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_certificates`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_cipher`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_cipher_suite`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_client_certificates`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_client_key`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_compression`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_endpoint`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_headers`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_max_tls`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_min_tls`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_metrics_protocol`  
Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_timeout`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_traces_cipher`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_traces_cipher_suite`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_traces_max_tls`  
Introduced in version 8.3.0
- `telemetry.otel_exporter_otlp_traces_min_tls`  
Introduced in version 8.3.0
- `transaction_write_set_extraction`  
Removed in version 8.3.0

## 1.6 Option and Variable Changes for MySQL 8.4

The following list details the changes to specific options and variables within MySQL 8.4.

- `admin-ssl`  
Removed in version 8.4.0
- `authentication_fido_rp_id`  
Removed in version 8.4.0
- `avoid_temporal_upgrade`  
Removed in version 8.4.0
- `binlog_transaction_dependency_tracking`  
Removed in version 8.4.0
- `Com_change_master`  
Removed in version 8.4.0
- `Com_show_master_status`  
Removed in version 8.4.0
- `Com_show_slave_hosts`  
Removed in version 8.4.0
- `Com_show_slave_status`  
Removed in version 8.4.0

- `Com_slave_start`  
Removed in version 8.4.0
- `Com_slave_stop`  
Removed in version 8.4.0
- `default_authentication_plugin`  
Removed in version 8.4.0
- `group_replication_allow_local_lower_version_join`  
Deprecated in version 8.4.0
- `group_replication_preemptive_garbage_collection`  
Introduced in version 8.4.0
- `group_replication_preemptive_garbage_collection_rows_threshold`  
Introduced in version 8.4.0
- `group_replication_recovery_complete_at`  
Removed in version 8.4.0
- `have_openssl`  
Removed in version 8.4.0
- `have_ssl`  
Removed in version 8.4.0
- `keyring_encrypted_file_data`  
Removed in version 8.4.0
- `keyring_encrypted_file_password`  
Removed in version 8.4.0
- `keyring_file_data`  
Removed in version 8.4.0
- `keyring-migration-from-component`  
Introduced in version 8.4.0
- `keyring_oci_ca_certificate`  
Removed in version 8.4.0
- `keyring_oci_compartment`  
Removed in version 8.4.0

- `keyring_oci_encryption_endpoint`  
Removed in version 8.4.0
- `keyring_oci_key_file`  
Removed in version 8.4.0
- `keyring_oci_key_fingerprint`  
Removed in version 8.4.0
- `keyring_oci_management_endpoint`  
Removed in version 8.4.0
- `keyring_oci_master_key`  
Removed in version 8.4.0
- `keyring_oci_secrets_endpoint`  
Removed in version 8.4.0
- `keyring_oci_tenancy`  
Removed in version 8.4.0
- `keyring_oci_user`  
Removed in version 8.4.0
- `keyring_oci_vaults_endpoint`  
Removed in version 8.4.0
- `keyring_oci_virtual_vault`  
Removed in version 8.4.0
- `language`  
Removed in version 8.4.0
- `mysql-native-password`  
Introduced in version 8.4.0  
Deprecated in version 8.4.0
- `ndb_log_cache_size`  
Introduced in version 8.4.3-ndb-8.4.3
- `new`  
Removed in version 8.4.0
- `no-dd-upgrade`



Removed in version 8.4.0

- `old`

Removed in version 8.4.0

- `restrict_fk_on_non_standard_key`

Introduced in version 8.4.0

Deprecated in version 8.4.0

- `show_old_temporals`

Removed in version 8.4.0

- `skip-ssl`

Removed in version 8.4.0

- `ssl`

Removed in version 8.4.0

- `thread_pool_longrun_trx_limit`

Introduced in version 8.4.0



## Chapter 2 Built-In Functions and Operators

The following table shows all built-in functions and operators available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 2.1 Built-In Function and Operator Reference**

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
&				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
>>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
>=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<>, !=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<<				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<=>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
%, MOD				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
*				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
+				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
-				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
-				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
->	5.7.9			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
-->>	5.7.13			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
/				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
:=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
^				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ABS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACOS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADDDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADDTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AES_DECRYPT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AES_ENCRYPT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AND, &&				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ANY_VALUE()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Area()		5.7.6		Yes							
AsBinary(), AsWKB()		5.7.6		Yes							
ASCII()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ASIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AsText(), AsWKT()		5.7.6		Yes							
asynchronous_connection_failover_managed()	8.0.23			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
asynchronous_connection_failover_source()	8.0.22			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
asynchronous_connection_failover_managed()	8.0.23			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
asynchronous_connection_failover_source()	8.0.22			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
asynchronous_connection_failover_managed()	8.0.27			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ATAN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ATAN2(), ATAN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVG()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BENCHMARK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BETWEEN ... AND ...				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIN_TO_UUID()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
BINARY		8.0.27		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_AND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_COUNT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
BIT_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_OR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_XOR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Buffer()	5.7.6			Yes							
CAN_ACCESS_COLUMN()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAN_ACCESS_DATABASE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAN_ACCESS_TABLE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAN_ACCESS_USER()	8.0.22				Some	Yes	Yes	Yes	Yes	Yes	Yes
CAN_ACCESS_VIEW()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
CASE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CEIL()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CEILING()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Centroid()	5.7.6			Yes							
CHAR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHAR_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHARACTER_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHARSET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COALESCE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COERCIBILITY()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLLATION()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPRESS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONCAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONCAT_WS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONNECTION_ID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Contains()	5.7.6			Yes							
CONV()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONVERT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONVERT_TZ()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ConvexHull()	5.7.5	5.7.6		Yes							
COS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COUNT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COUNT(DISTINCT)				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CRC32()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Crosses()	5.7.6			Yes							
CUME_DIST()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
CURRENT_DATE(), CURRENT_DATE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_ROLE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_TIME(), CURRENT_TIME				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_TIMESTAMP(), CURRENT_TIMESTAMP				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_USER(), CURRENT_USER				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATABASE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE_ADD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE_FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE_SUB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATEDIFF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAY()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYNAME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYOFMONTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYOFWEEK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYOFYEAR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DECODE()	5.7.2	8.0.3		Yes							
DEFAULT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEGREES()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DENSE_RANK()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
DES_DECRYPT()	5.7.6	8.0.3		Yes							
DES_ENCRYPT()	5.7.6	8.0.3		Yes							
Dimension()	5.7.6			Yes							
Disjoint()	5.7.6			Yes							
DISTANCE()										Yes	Yes
DIV				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ELT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENCODE()	5.7.2	8.0.3		Yes							
ENCRYPT()	5.7.6	8.0.3		Yes							
EndPoint()	5.7.6			Yes							
Envelope()	5.7.6			Yes							
Equals()	5.7.6			Yes							
EXISTS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
EXPORT_SET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ExteriorRing()	5.7.6			Yes							
EXTRACT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ExtractValue()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIELD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIND_IN_SET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIRST_VALUE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
FLOOR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORMAT_TIMESTAMP()	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
FORMAT_TIME()	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
FOUND_ROWS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FROM_BASE64()				Yes	Yes						
FROM_DAYS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FROM_UNIXTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeomCollection()	8.0.11				Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeomCollFromText(), GeometryCollectionFromText()	5.7.6,			Yes							
GeomCollFromWKB(), GeometryCollectionFromWKB()	5.7.6,			Yes							
GeometryCollection()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeometryN()	5.7.6			Yes							
GeometryType()	5.7.6			Yes							
GeomFromText(), GeometryFromText()	5,7.6			Yes							
GeomFromWKB(), GeometryFromWKB()	5.7.6			Yes							
GET_DD_COLUMN_PRIVILEGES()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_DD_CREATE_OPTIONS()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_DD_INDEX_SUB_PART_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_LOCK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GLength()	5.7.6			Yes							
GREATEST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GROUP_CONCAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_concat_disable_member_argument()	8.0.26				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_concat_enable_member_argument()	8.0.26				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_concat_get_communication_protocol()	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_concat_get_write_concurrency()	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
group_replication_reset_member_active()	8.0.26				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_as_primary()	8.0.29				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_communications_protocol()	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_write_concurrency()	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_multi_primary_mode()	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_single_primary_mode()	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
GROUPING()	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
GTID_SUBSET()				Yes	Yes						
GTID_SUBTRACT()				Yes	Yes						
HEX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOUR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICU_VERSION()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
IF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IFNULL()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INET_ATON()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INET_NTOA()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INET6_ATON()				Yes	Yes						
INET6_NTOA()				Yes	Yes						
INSERT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
InteriorRingN	5.7.6			Yes							
INTERNAL_AUTO_INCREMENT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_AVG_ROW_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_CHECK_TIME()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_CHECKSUM()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_DATA_FREE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_DATA_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_DD_CHAR_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_COMMENT_OR_ERROR()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_ENABLED_ROLE_JSON()	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_HOSTNAME()	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_USERNAME()	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_VIEW_WARNING_OR_ERROR()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_INDEX_COLUMN_CARDINALITY()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_INDEX_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_ENABLED_ROLE()	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_GET_MANDATORY_ROLE()	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes



Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
INTERNAL_KEYS_DISABLED()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_MAX_DATA_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_TABLE_ROWS()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_UPDATE_TIME()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intersects()	5.7.6			Yes							
INTERVAL()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS_FREE_LOCK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS_IPV4()				Yes	Yes						
IS_IPV4_COMPAT()				Yes	Yes						
IS_IPV4_MAPPED()				Yes	Yes						
IS_IPV6()				Yes	Yes						
IS NOT				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS NOT NULL				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS NULL				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS_USED_LOCK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS_UUID()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
IsClosed()	5.7.6			Yes							
IsEmpty()	5.7.6			Yes							
ISNULL()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IsSimple()	5.7.6			Yes							
JSON_APPEND()	5.7.8	5.7.9		Yes							
JSON_ARRAY()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_ARRAY_APPEND()	5.7.9			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_ARRAY_INSERT()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_ARRAY_LENGTH()	5.7.22			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_ARRAY_REMOVE()	8.0.1										
JSON_COLUMNS()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_COLUMNS_PATH()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_DELETE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_EXISTS()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_INSERT()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_KEYS()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_LENGTH()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
JSON_MERGE()	5.7.8	5.7.22, 8.0.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_MERGE_PATCH()	5.7.22, 8.0.3			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_MERGE_PRESERVE()	5.7.22, 8.0.3			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_OBJECT()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_OBJECT_AGG()	5.7.22, 8.0.1			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_OBJECT_KEYS()	8.0.17				Some	Yes	Yes	Yes	Yes	Yes	Yes
JSON_PATH_EXISTS()	5.7.22, 8.0.1			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_QUOTE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_REMOVE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_REPLACE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_SCHEMA_VALID()	8.0.17				Some	Yes	Yes	Yes	Yes	Yes	Yes
JSON_SCHEMA_VALIDATION_REPORT()	8.0.17				Some	Yes	Yes	Yes	Yes	Yes	Yes
JSON_SEARCH()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_SET()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_STORAGE_FREE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_STORAGE_SIZE()	5.7.22, 8.0.2			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_TABLE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_TYPE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_UNQUOTE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_VALUE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_VALUE_ON_ERROR()	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
LAG()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_DAY				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_INSERT_ID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_VALUE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
LCASE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEAD()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEAST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEFT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LIKE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LineFromText() LineStringFromText()	5,7.6			Yes							

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
LineFromWKB() LineStringFromWKB()	5.7.6			Yes							
LineString()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOAD_FILE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCALTIME(), LOCALTIME				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCALTIMESTAMP, LOCALTIMESTAMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG10()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG2()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOWER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LTRIM()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAKE_SET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAKEDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAKETIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MASTER_POS_WAIT	8.0.26			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MATCH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRContains()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRCoveredBy()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRCovers()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRDisjoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBREqual()	5.7.6			Yes							
MBREqualArea()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRIntersects()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBROverlaps()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRTouches()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRWithin()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MD5()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEMBER OF()	8.0.17				Some	Yes	Yes	Yes	Yes	Yes	Yes
MICROSECOND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MINUTE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
MLineFromText MultiLineStringFromText()	5.7.6			Yes							
MLineFromWKB MultiLineStringFromWKB()	5.7.6			Yes							
MOD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MONTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MONTHNAME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPointFromText MultiPointFromText()	5.7.6			Yes							
MPointFromWKB MultiPointFromWKB()	5.7.6			Yes							
MPolyFromText MultiPolygonFromText()	5.7.6			Yes							
MPolyFromWKB MultiPolygonFromWKB()	5.7.6			Yes							
MultiLineString()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MultiPoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MultiPolygon()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NAME_CONST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT, !				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT BETWEEN ... AND ...				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT EXISTS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT IN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT LIKE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT REGEXP				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOW()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NTH_VALUE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
NTILE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
NULLIF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NumGeometries	5.7.6			Yes							
NumInteriorRings	5.7.6			Yes							
NumPoints()	5.7.6			Yes							
OCT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OCTET_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OLD_PASSWORD()	5.6.5		5.7.5								

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
OR,				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ORD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overlaps()		5.7.6		Yes							
PASSWORD()		5.7.6	8.0.11	Yes							
PERCENT_RANK()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
PERIOD_ADD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PERIOD_DIFF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PI()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Point()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PointFromText()		5.7.6		Yes							
PointFromWKB()		5.7.6		Yes							
PointN()		5.7.6		Yes							
PolyFromText() PolygonFromText()		5.7.6		Yes							
PolyFromWKB() PolygonFromWKB()		5.7.6		Yes							
Polygon()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
POSITION()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
POW()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
POWER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROCEDURE ANALYSE()		5.7.18		Yes							
PS_CURRENT_THREAD_ID()	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
PS_THREAD_ID()	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
QUARTER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUOTE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RADIANS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RAND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RANDOM_BYTES()	5.7.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RANK()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_INSTR()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELEASE_ALL_LOCKS()	5.7.15			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELEASE_LOCK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPEAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLACE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
REVERSE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIGHT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RLIKE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROLES_GRAPHML()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROUND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW_COUNT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW_NUMBER()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
RPAD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RTRIM()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMA()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SEC_TO_TIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SECOND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SESSION_USER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHA1(), SHA()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHA2()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIGN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SLEEP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOUNDEX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOUNDS LIKE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_WAIT()	8.0.26				Some	Yes	Yes	Yes	Yes	Yes	Yes
SPACE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Distance	5.7.5	5.7.6		Yes							
SQRT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SRID()		5.7.6		Yes							
ST_Area()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_AsBinary(), ST_AsWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_AsGeogJSON()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_AsText(), ST_AsWKT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Buffer()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_BufferStrategy()	5.7.7			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Centroid()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Collect()	8.0.24				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_Contains()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_ConvexHull()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
ST_Crosses()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Difference()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Dimension()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Disjoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Distance()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_DistanceSphere()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_EndPoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Envelope()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Equals()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_ExteriorRing()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_FrechetDistance()	8.0.23				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomFromGeoJSON()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomCollFromText(), ST_GeometryCollectionFromText(), ST_GeomCollFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomCollFromWKB(), ST_GeometryCollectionFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeometryN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeometryType()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomFromGeoJSON()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomFromText(), ST_GeometryFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomFromWKB(), ST_GeometryFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_HausdorffDistance()	8.0.23				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_InteriorRingN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Intersection()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Intersects()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsClosed()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsEmpty()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsSimple()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsValid()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LatFromGeoHash()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LatFromGeoHash()	8.0.12				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_Length()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LineFromText(), ST_LineStringFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LineFromWKB(), ST_LineStringFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LineInterpolatePoint()	8.0.24				Some	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
ST_LineInterpolatePoints()	8.0.24				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_LongestLineGeoHash()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LongestLine()	8.0.12				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_MakeEnvelope()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MLineFromText(), ST_MultiLineStringFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MLineFromWKB(), ST_MultiLineStringFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPointFromText(), ST_MultiPointFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPointFromWKB(), ST_MultiPointFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPolyFromText(), ST_MultiPolygonFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPolyFromWKB(), ST_MultiPolygonFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_NumGeometries()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_NumInteriorRing(), ST_NumInteriorRings()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_NumPoints()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Overlaps()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointDistance()	8.0.24				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointGeoHash()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PolyFromText(), ST_PolygonFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PolyFromWKB(), ST_PolygonFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Simplify()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SRID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_StartPoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SwapOrder()	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SymDifference()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Touches()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Transform()	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
ST_Union()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Validate()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Within()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
ST_X()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Y()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
StartPoint()		5.7.6		Yes							
STATEMENT_DIGEST()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
STATEMENT_DIGEST_TEXT()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes
STD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STDDEV()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STDDEV_POP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STDDEV_SAMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STR_TO_DATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STRCMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STRING_TO_VECTOR()										Yes	Yes
SUBDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBSTR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBSTRING()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBSTRING_INDEX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUM()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSTEM_USER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TAN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIME_FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIME_TO_SEC()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMEDIFF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMESTAMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMESTAMPADD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMESTAMPDIFF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TO_BASE64()				Yes	Yes						
TO_DAYS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TO_SECONDS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Touches()		5.7.6		Yes							
TRIM()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TRUNCATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UCASE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNCOMPRESS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNCOMPRESSED_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNHEX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
UNIX_TIMESTAMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UpdateXML()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UPPER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UTC_DATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UTC_TIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UTC_TIMESTAMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UUID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UUID_SHORT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UUID_TO_BIN()					Yes	Yes	Yes	Yes	Yes	Yes	Yes
VALIDATE_PASSWORD_STRENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VALUES()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VAR_POP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VAR_SAMP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VARIANCE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VECTOR_DIM()										Yes	Yes
VECTOR_TO_STRING()										Yes	Yes
VERSION()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WAIT_FOR_EXECUTED_GTID_SET()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WAIT_UNTIL_SQL_THREAD_AFTER_IDS()	8.0.18			Yes	Yes	Yes					
WEEK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WEEKDAY()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WEEKOFYEAR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WEIGHT_STRING()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Within()	5.7.6			Yes							
X()	5.7.6			Yes							
XOR				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Y()	5.7.6			Yes							
YEAR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
YEARWEEK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
~				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Chapter 3 Loadable Functions

The following table shows all loadable functions available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 3.1 Loadable Function Reference**

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<code>asymmetric_decrypt()</code>	5.7.9 8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asymmetric_derive()</code>	5.7.9 8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asymmetric_encrypt()</code>	5.7.9 8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asymmetric_sign()</code>	5.7.9 8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asymmetric_verify()</code>	5.7.9 8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asynchronous_connection_failure_add_source()</code>	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asynchronous_connection_failure_delete_source()</code>	8.0.22		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asynchronous_connection_failure_manage_sources()</code>	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>asynchronous_connection_failure_set_source()</code>	8.0.22		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>audit_api_message_emit_udf()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>audit_log_encryption_password_get()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
audit_log_encryption_password_set()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_flush()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_remove_filter()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_remove_user()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_set_filter()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_set_user()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_read()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_read_bookmarks()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_rotate()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_sysmetric_privkey()	5.7.9, 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_sysmetric_pubkey()	5.7.9, 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_sys_parameters()	5.7.9, 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_syslist()	5.7.9, 8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
firewall_group_delist()	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
firewall_group_enlist()	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
flush_rewrite_rules()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_blacklist()	8.0.23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_blacklist()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_blacklist()	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary_drop()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary_load()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_range()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_range()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ada_sin()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_bin1()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_email()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ip4()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ip6()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_pan()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ssn()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ssn()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_uin()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_uin_phone()	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
gen_rand_us_phone()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_rand_8.0.33()	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_disable_member_action()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_enable_member_action()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_get_communication_protocol()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_get_write_configuration()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_reset_member_action()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_as_primary()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_communication_protocol()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_write_configuration()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_multi_primary_mode()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_single_primary_mode()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_rotate_cmks()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_rotate_keys()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_hashicorp_update_configuration()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_fetch()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_generate()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_length_fetch()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_remove()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_store()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_type_fetch()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
load_rewrite_rules()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_cache_8.0.33sin()	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_ib_8.0.33	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_inner_8.0.33	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_inner()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_outer_8.0.33	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_outer()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_parallel_8.0.33	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_parallel()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_parallel_8.0.33axed()	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_parallel_relaxed()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_secure_8.0.33	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_secure()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_unsafe_8.0.33	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mask_unsafe()				Some	Yes	Yes	Yes	Yes	Yes	Yes
masking_dictionaries_flush()							Yes	Yes	Yes	Yes
masking_dictionary_remove()	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
masking_dictionary_term_add()	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
masking_dictionary_term_remove()	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
mle_session_reset()									Yes	Yes
mle_session_state()									Yes	Yes
mle_set_session_state()									Yes	Yes
mysql_firewall_flush_status()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_opt_attribute_string()	8.0.23			Some	Yes	Yes	Yes	Yes	Yes	Yes
normalize_statement()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
option_tracker_option_register()										Yes
option_tracker_option_unregister()										Yes
option_tracker_usage_get()										Yes
option_tracker_usage_set()										Yes
read_firewall_group_allowlist()	8.0.23			Some	Yes	Yes	Yes	Yes	Yes	Yes
read_firewall_groups()	8.0.23			Some	Yes	Yes	Yes	Yes	Yes	Yes
read_firewall_group_blacklist()	8.0.26		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
read_firewall_group_blacklist()	8.0.26		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service_read_locks()	5.7.8		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service_write_locks()	5.7.8		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service_release_locks()	5.7.8		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
set_firewall_group_mode()	8.0.23			Some	Yes	Yes	Yes	Yes	Yes	Yes
set_firewall_mode()	8.0.26		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_delete()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_get()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_get_exclusive()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_get_shared()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_get_size()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_get_view()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_lock()	9.2.0		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Chapter 4 INFORMATION\_SCHEMA Tables

The following table shows all INFORMATION\_SCHEMA tables available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 4.1 INFORMATION\_SCHEMA Table Reference**

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<a href="#">ADMINISTRABLE_ROLE_AUTHORIZATIONS</a>	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">APPLICATION_ROLES</a>	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CHARACTER_SETS</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CHECK_CONSTRAINTS</a>	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COLLATION_CHARACTER_SET_APPLICABILITY</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COLLATIONS</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COLUMN_PRIVILEGES</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COLUMN_STATISTICS</a>	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COLUMNS</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COLUMNS_EXTENSIONS</a>	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CONNECTION_CONTROL_FAILED_ERROR_NUMBERS</a>	5.7.17			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ENABLED_CHANNELS</a>	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">ENGINES</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">EVENTS</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
FILES				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GLOBAL_STATUS			8.0.1	Yes							
GLOBAL_VARIABLES			8.0.1	Yes							
INNODB_BUFFER_PAGE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_BUFFER_PAGE_LRU				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_BUFFER_POOL_STATS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CACHED_INDEXES					Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CMP				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CMP_PER_INDEX				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CMP_PER_INDEX_RESET				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CMP_RESET				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CMPMEM				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_CMPMEM_RESET				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_COLUMNS	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_DATAFILES	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FIELDS	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FOREIGN	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FOREIGN_COLS	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FT_BEING_DELETED				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FT_CONFIG				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FT_DEFAULT_STOPWORD				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FT_DELETED				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FT_INDEX_CACHE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_FT_INDEX_TABLE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_INDEXES	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_LOCK_WAIT	5.7.14	8.0.1	8.0.1	Yes							
INNODB_LOCKS	5.7.14	8.0.1	8.0.1	Yes							
INNODB_METRICS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_PARTITION_TEMP_TABLESPACES	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_SYS_COLUMNS		8.0.2		Yes							
INNODB_SYS_DATAFILES		8.0.2		Yes							
INNODB_SYS_FIELDS		8.0.2		Yes							
INNODB_SYS_FOREIGN		8.0.2		Yes							
INNODB_SYS_FOREIGN_COLS		8.0.2		Yes							
INNODB_SYS_INDEXES		8.0.2		Yes							
INNODB_SYS_TABLES		8.0.2		Yes							
INNODB_SYS_TABLESPACES		8.0.2		Yes							



Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
INNODB_SYS_TABLESTATS			8.0.2	Yes							
INNODB_VIRTUAL	5.7.8		8.0.2	Yes							
INNODB_LES	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_LESPACES	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_LESPACES_BRIEF	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_LESTATS	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_TEMP_TABLE_INFO	5.7.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_TRX				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_VIRTUAL	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
KEY_COLUMN_USAGE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KEYWORDS	8.0.11				Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_FIREWALL_FILTERS	8.0.26			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_FIREWALL_FILTERLIST	8.0.26			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_transid_mysql_connections_map				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMIZER_TRACE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARAMETERS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARTITIONS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLUGINS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROCESLIST				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROFILING				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REFERENTIAL_CONSTRAINTS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RESOURCE_GROUPS	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROLE_COLUMN_GRANTS	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
ROLE_ROLE_GRANTS	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
ROLE_TABLE_GRANTS	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes
ROUTINES				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMA_PRIVILEGES				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMATA				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMATA_EXTENSIONS	8.0.22				Some	Yes	Yes	Yes	Yes	Yes	Yes
SESSION_STATUS			8.0.1	Yes							
SESSION_VARIABLES			8.0.1	Yes							
ST_GEOMETRY_COLUMNS	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SPATIAL_REFERENCE_SYSTEMS	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_UNIT_OF_MEASURE	8.0.14				Some	Yes	Yes	Yes	Yes	Yes	Yes
STATISTICS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_CONSTRAINTS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_CONSTRAINTS_EXTENSIONS	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
TABLE_PRIVILEGES				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLES				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLESPACE_EXTENSIONS	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
TABLESPACES		8.0.22		Yes	Yes	Yes	Yes	Yes			
TABLESPACE_EXTENSIONS	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
TP_THREAD_GROUP_STATE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TP_THREAD_GROUP_STATS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TP_THREAD_STATE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TRIGGERS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USER_ATTRIBUTES	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
USER_PRIVILEGES				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VIEW_ROWID_USAGE	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
VIEW_TABLE_USAGE	8.0.13				Some	Yes	Yes	Yes	Yes	Yes	Yes
VIEWS				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Chapter 5 Performance Schema Tables

The following table shows all Performance Schema tables available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 5.1 Performance Schema Table Reference**

Table Name	Introduced	Deprecated	Removed	6.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<a href="#">accounts</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">binary_log_transaction_compression_status</a>	8.0.20				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">clone_progress</a>	8.0.17				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">clone_status</a>	8.0.17				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">component_scheduler_tasks</a>	8.0.34				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">cond_instances</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">data_lock_waits</a>	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">data_locks</a>	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">error_log</a>	8.0.22				Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">events_errors_summary_by_account_by_error</a>					Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">events_errors_summary_by_host_by_error</a>					Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">events_errors_summary_by_thread_by_error</a>					Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">events_errors_summary_by_user_by_error</a>					Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">events_errors_summary_global_by_error</a>					Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
events_stages_current				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_history				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_history_long				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_account_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_host_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_thread_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_user_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_global_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_current				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_histogram_by_digest	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_histogram_global	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_history				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_history_long				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_account_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_digest				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_host_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_program	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_thread_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_user_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_global_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_current	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_history	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_history_long	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_account_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_host_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_thread_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_user_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_global_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_current				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_history				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_history_long				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_account_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_host_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_instance				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_thread_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_user_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_global_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
file_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
file_summary_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
file_summary_by_instance				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
firewall_group_allowlist	8.0.23				Some	Yes	Yes	Yes	Yes	Yes	Yes
firewall_groups	8.0.23				Some	Yes	Yes	Yes	Yes	Yes	Yes
firewall_membership	8.0.23				Some	Yes	Yes	Yes	Yes	Yes	Yes
global_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
global_variable_attributes										Yes	Yes
global_variables	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
host_cache				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
hosts				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_component_status	8.0.24				Some	Yes	Yes	Yes	Yes	Yes	Yes
keyring_keys	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes
log_status	8.0.11				Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_account_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_host_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_thread_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_user_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_global_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
metadata_locks	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mutex_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_option											Yes
ndb_replication_applier_status										Yes	Yes
ndb_sync_included_objects	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
ndb_sync_pending_objects	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
objects_summary_global_by_type				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_timers				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
persist_variables	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
prepared_statements_instances	5.7.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
processlist	8.0.22				Some	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_applier_configuration	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_applier_filters	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_applier_global_filters	8.0.1				Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_applier_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_applier_status_by_coordinator	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_applier_status_by_worker	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_n_asynchronous_connection_failover	8.0.22				Some	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
replica_23_asynchronous_connection_failures_managed	8.0.23				Some	Yes	Yes	Yes	Yes	Yes	Yes
replica_23_connection_configuration	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_23_connection_status	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_27_group_communication_information	8.0.27				Some	Yes	Yes	Yes	Yes	Yes	Yes
replica_27_group_member_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replica_27_group_members	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rwlock_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_account_connect_attrs				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_connect_attrs				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_variables	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_actors				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_consumers				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_instruments				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_objects				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_threads	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_timers	5.7.21	8.0.4		Yes							
socket_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
socket_summary_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
socket_summary_by_instance				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_57.6_account	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_57.6_host	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_57.6_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_57.6_user	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_binlogs	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_io_waits_summary_by_index_usage				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_io_waits_summary_by_table				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_lock_waits_summary_by_table				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
threads				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tls_channels_status	8.0.21				Some	Yes	Yes	Yes	Yes	Yes	Yes
tp_thread_group_state	8.0.14				Some	Yes	Yes	Yes	Yes	Yes	Yes
tp_thread_group_stats	8.0.14				Some	Yes	Yes	Yes	Yes	Yes	Yes
tp_thread_state	8.0.14				Some	Yes	Yes	Yes	Yes	Yes	Yes
user_defined_functions	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_variables_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
users				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
variables_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Table Name	Introduced	Deprecated	Removed	8.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
variables_info					Yes	Yes	Yes	Yes	Yes	Yes	Yes
variables_metadata										Yes	Yes





## Chapter 6 sys Schema Objects

The following tables show all `sys` schema objects available in MySQL Server. Each table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 6.1 sys Schema Table and Trigger Reference**

Table or Trigger Name	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<code>sys_config</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>sys_config_insert_user</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>sys_config_update_user</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Table 6.2 sys Schema View Reference**

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<code>host_summary</code> , <code>x</code> <code>\$host_summary</code>		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_file_io</code> , <code>x</code> <code>\$host_summary_by_file_io</code>		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_file_io_type</code> , <code>x</code> <code>\$host_summary_by_file_io_type</code>		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
host_summary_by_pages, x \$host_summary_by_stages		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
host_summary_by_statement_latency, x \$host_summary_by_statement_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
host_summary_by_statement_type, x \$host_summary_by_statement_type		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_stats_by_schema, x \$innodb_buffer_stats_by_schema		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_stats_by_table, x \$innodb_buffer_stats_by_table		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lock_waits, x \$innodb_lock_waits		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_by_thread_by_latency, x \$io_by_thread_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_by_file_by_bytes, x \$io_global_by_file_by_bytes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_by_file_by_latency, x \$io_global_by_file_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_by_wait_by_bytes, x \$io_global_by_wait_by_bytes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_by_wait_by_latency, x \$io_global_by_wait_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
latest_file_io, x \$latest_file_io		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_by_host_by_current_bytes, x \$memory_by_host_by_current_bytes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_by_thread_by_current_bytes, x \$memory_by_thread_by_current_bytes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_by_user_by_current_bytes, x \$memory_by_user_by_current_bytes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
memory_global_by_current_bytes, x \$memory_global_by_current_bytes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_global_total, x \$memory_global_total		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
metrics		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
processlist, x \$processlist		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_check_lost_instrumentation		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_auto_increment_columns		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_index_statistics, x \$schema_index_statistics		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_object_overview		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_redundant_indexes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_table_lock_waits, x \$schema_table_lock_waits		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_table_statistics, x \$schema_table_statistics		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_table_statistics_with_buffer, x \$schema_table_statistics_with_buffer		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_tables_with_full_table_scans, x \$schema_tables_with_full_table_scans		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_unused_indexes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session, x \$session		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_ssl_status		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statement_analysis, x \$statement_analysis		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_errors_or_warnings, x \$statements_with_errors_or_warnings		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_full_table_scans, x \$statements_with_full_table_scans		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
statements_with_runtime_percentiles, x \$statements_with_runtime_percentiles		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_sorting, x \$statements_with_sorting		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_temp_tables, x \$statements_with_temp_tables		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary, x \$user_summary		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_file_io, x \$user_summary_by_file_io		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_file_io_type, x \$user_summary_by_file_io_type		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_stages, x \$user_summary_by_stages		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_statement_latency, x \$user_summary_by_statement_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_statement_type, x \$user_summary_by_statement_type		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version	5.7.28, 8.0.18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
wait_classes_global_by_avg_latency, x \$wait_classes_global_by_avg_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
wait_classes_global_by_latency, x \$wait_classes_global_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
waits_by_host_by_latency, x \$waits_by_host_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
waits_by_user_by_latency, x \$waits_by_user_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
waits_global_by_latency, x \$waits_global_by_latency		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
x \$ps_digest_95th_percentile_by_avg_us		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
x \$ps_digest_avg_latency_distribution		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
x \$ps_schema_table_statistics_io		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
x \$schema_flattened_keys		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Table 6.3 sys Schema Stored Procedure Reference**

Stored Procedure Name	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
create_sysym_db()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
diagnostiYes)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
execute_prepared_statYes()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_background_threads()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_consumer()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_instrument	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_thread()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_background_threads()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_consumer()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_instrument	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesable_thread()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesoad_saved()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yeset_to_Yesfault()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesre()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesrow_disabled()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesrow_disabled_consumers()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesrow_disabled_instruments()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesrow_enabled()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesrow_enabled_consumers()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_setup_Yesrow_enabled_instruments()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_statement_Yes_avg_latency_histogram()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_trace_Yesstatement_Yesdigest()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_trace_Yesread()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_truncaYes_all_tables()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statement_YesperformaYes_analyzer()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_exiYes()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Table 6.4 sys Schema Stored Function Reference**

Stored Function Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<code>extract_schema_from_files_name()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>extract_table_from_files_name()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>format_bytes()</code>	8.0.16		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>format_path()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>format_statement()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>format_time()</code>	8.0.16		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>list_add()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>list_drop()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_is_account_enabled()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_is_consumer_enabled()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_is_instrument_default_enabled()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_is_instrument_default_time_enabled()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_is_thread_instrumented()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_account()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_id()</code>	8.0.16		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_stack()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_trx_info()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>quote_identifier()</code>	5.7.14		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>sys_get_config()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>version_major()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>version_minor()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>version_patch()</code>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

# Chapter 7 Keywords and Reserved Words

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This section contains information on the keywords and reserved words within the server when creating and submitting queries to the system. For more information on reserved words and their impact on your queries, see [Chapter 7, Keywords and Reserved Words](#).

The following table shows all keywords and reserved words available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version in which the item was introduced.
- **Removed:** The version in which the item was removed.
- Whether the item is available in the corresponding MySQL Server release series. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

**Table 7.1 Keyword and Reserved Word Reference**

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
ACCESSIBLE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ACCOUNT	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACTION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACTIVE	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
ADD			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ADMIN				Yes	Yes	Yes	Yes	Yes	Yes
AFTER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
AGAINST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
AGGREGATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ALGORITHM			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ALL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ALTER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ALWAYS	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes
ANALYSE		8.0.1	Yes	Yes					
ANALYZE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
AND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ANY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ARRAY	8.0.17			Yes	Yes	Yes	Yes	Yes	Yes
AS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ASC			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ASCII			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ASENSITIVE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
AT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
AUTHENTICATION	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
AUTO								Yes	Yes
AUTOEXTEND_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
AUTO_INCREMENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVG			Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVG_ROW_LENGTH			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BACKUP			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BEFORE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BEGIN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BERNOULLI								Yes	Yes
BETWEEN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BIGINT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BINARY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BINLOG			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BLOB			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BLOCK			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BOOL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BOOLEAN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BOTH			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BTREE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
BUCKETS	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
BULK	8.0.32			Yes	Yes	Yes	Yes	Yes	Yes
BY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
BYTE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CACHE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CALL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CASCADE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CASCADED			Yes	Yes	Yes	Yes	Yes	Yes	Yes



Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
CASE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CATALOG_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHAIN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHALLENGE_RESPONSE	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
CHANGE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CHANGED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHANNEL	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHAR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CHARACTER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CHARSET			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHECK			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CHECKSUM			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CIPHER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLASS_ORIGIN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLIENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLONE	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
CLOSE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COALESCE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CODE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLLATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
COLLATION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
COLUMNS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMN_FORMAT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMN_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMMENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMMIT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMMITTED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPACT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPLETION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPONENT				Yes	Yes	Yes	Yes	Yes	Yes
COMPRESSED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPRESS	5.7.8		Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONCURRENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONDITION			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CONNECTION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONSISTENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONSTRAINT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
CONSTRAINT_CATALOG			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONSTRAINT_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONSTRAINT_SCHEMA			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONTAINS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONTEXT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONTINUE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CONVERT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CPU			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CREATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CROSS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CUBE			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CUME_DIST	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURRENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_DATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURRENT_TIME			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURRENT_TIMESTAMP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURRENT_USER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURSOR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURSOR_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATA			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATABASE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DATABASES			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DATAFILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATETIME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAY_HOUR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DAY_MICROSECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DAY_MINUTE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DAY_SECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DEALLOCATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEC			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DECIMAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DECLARE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DEFAULT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DEFAULT_AUTH			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEFINER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEFINITION	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
DELAYED			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DELAY_KEY_WRITE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DELETE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DENSE_RANK	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DESC			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DESCRIBE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DESCRIPTION	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
DES_KEY_FILE		8.0.3	Yes	Yes					
DETERMINISTIC			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DIAGNOSTICS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIRECTORY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISCARD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISK			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISTINCT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DISTINCTROW			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DIV			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DO			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DOUBLE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DROP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DUAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
DUMPFIELD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DUPLICATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
DYNAMIC			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EACH			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ELSE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ELSEIF			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
EMPTY	8.0.4			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ENABLE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENCLOSED			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ENCRYPTED	5.7.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes
END			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENDS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENFORCED	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
ENGINE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENGINES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENGINE_ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
ENUM			Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
ERROR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ERRORS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ESCAPE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ESCAPED			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
EVENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EVENTS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EVERY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXCEPT				Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
EXCHANGE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXCLUDE	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
EXECUTE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXISTS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
EXIT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
EXPANSION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXPIRE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXPLAIN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
EXPORT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTENDED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTENT_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FACTOR	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
FAILED_LOGIN_ATTEMPTS	8.0.19			Yes	Yes	Yes	Yes	Yes	Yes
FALSE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FAST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FAULTS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FETCH			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FIELDS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FILE_BLOCK_SIZE	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes
FILTER	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
FINISH	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
FIRST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIRST_VALUE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FIXED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FLOAT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FLOAT4			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FLOAT8			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FLUSH			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FOLLOWING	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
FOLLOWS	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes
FOR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FORCE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FOREIGN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FORMAT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FOUND			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FROM			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FULL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
FULLTEXT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
FUNCTION			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GENERAL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
GENERATE	8.0.32			Yes	Yes	Yes	Yes	Yes	Yes
GENERATE	5.7.6		Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GEOMCOLLECTION	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes
GEOMETRY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
GEOMETRYCOLLECTION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GET_FORMAT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_MASTER_PUBLIC_KEY	8.0.4			Yes	Yes	Yes	Yes		
GET_SOURCE_PUBLIC_KEY	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
GLOBAL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
GRANT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GRANTS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
GROUP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GROUPING	8.0.1			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GROUPS	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GROUP_REPLICATION	5.7.16		Yes	Yes	Yes	Yes	Yes	Yes	Yes
GTIDS						Yes	Yes	Yes	Yes
GTID_ONLY	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
HANDLER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
HASH			Yes	Yes	Yes	Yes	Yes	Yes	Yes
HAVING			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
HELP			Yes	Yes	Yes	Yes	Yes	Yes	Yes
HIGH_PRIORITY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
HISTOGRAM	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
HISTORY	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
HOST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOSTS			Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
HOUR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOUR_MICROSECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
HOUR_MINUTE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
HOUR_SECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
IDENTIFIED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IF			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
IGNORE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
IGNORE_SERVER_IDS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IMPORT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INACTIVE	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
INDEX			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INDEXES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
INFILE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INITIAL	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
INITIAL_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
INITIATE	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
INNER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INOUT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INSENSITIVE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INSERT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INSERT_METHOD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTANCE	5.7.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes
INT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INT1			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INT2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INT3			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INT4			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INT8			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INTEGER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INTERSECT	8.0.31			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INTERVAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INTO			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
INVISIBLE				Yes	Yes	Yes	Yes	Yes	Yes
INVOKER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IO			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IO_AFTER_GTIDS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
IO_BEFORE_GTIDS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
IO_THREAD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPC			Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ISOLATION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ISSUER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ITERATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
JOIN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
JSON	5.7.8		Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_TABLE	8.0.4			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
JSON_VALUE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
KEY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
KEYRING	8.0.24			Yes	Yes	Yes	Yes	Yes	Yes
KEYS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
KEY_BLOCK_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
KILL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LAG	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LANGUAGE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_VALUE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LATERAL	8.0.14			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LEAD	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LEADING			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LEAVE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LEAVES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEFT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LESS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEVEL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LIKE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LIMIT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LINEAR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LINES			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LINestring			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LIST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOAD			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LOCAL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCALTIME			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LOCALTIMESTAMP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
LOCK			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LOCKED	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes
LOCKS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG						Yes	Yes	Yes	Yes
LOGFILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOGS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LONG			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LONGBLOB			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LONGTEXT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LOOP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
LOW_PRIORITY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MANUAL								Yes (R)	Yes (R)
MASTER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MASTER_AUTO_POSITION			Yes	Yes	Yes	Yes	Yes		
MASTER_BIND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)		
MASTER_CONNECTION_ALGORITHMS	8.0.18			Yes	Yes	Yes	Yes		
MASTER_CONNECT_RETRY			Yes	Yes	Yes	Yes	Yes		
MASTER_DELAY			Yes	Yes	Yes	Yes	Yes		
MASTER_HEARTBEAT_PERIOD			Yes	Yes	Yes	Yes	Yes		
MASTER_HOST			Yes	Yes	Yes	Yes	Yes		
MASTER_LOG_FILE			Yes	Yes	Yes	Yes	Yes		
MASTER_LOG_POS			Yes	Yes	Yes	Yes	Yes		
MASTER_PASSWORD			Yes	Yes	Yes	Yes	Yes		
MASTER_PORT			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_C_KEY_PATH	8.0.4			Yes	Yes	Yes	Yes		
MASTER_RETRY_COUNT			Yes	Yes	Yes	Yes	Yes		
MASTER_SERVER_ID	8.0.23		Yes	Yes					
MASTER_SSL			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CA			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CAPATH			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CERT			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CIPHER			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CRL			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CRLPATH			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_KEY			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_VERIFY_SERVER_CERT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)		
MASTER_THREADS_PHSUITES	8.0.19			Yes	Yes	Yes	Yes		
MASTER_THREADS_PER_CONNECTION	5.7.10		Yes	Yes	Yes	Yes	Yes		



Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
MASTER_USER			Yes	Yes	Yes	Yes	Yes		
MASTER_ZIP_COMPRESSION_LEVEL	8.0.18			Yes	Yes	Yes	Yes		
MATCH			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MAXVALUE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MAX_CONNECTIONS_PER_HOUR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_QUERIES_PER_HOUR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_ROWS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_STATEMENT_TIME	5.7.4	5.7.8	Yes						
MAX_UPDATES_PER_HOUR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_USER_CONNECTIONS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEDIUM			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEDIUMBLOB			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MEDIUMINT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MEDIUMTEXT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MEMBER	8.0.17			Yes	Yes	Yes	Yes	Yes	Yes
MEMORY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MERGE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MESSAGE_TEXT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MICROSECOND			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIDDLEINT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MIGRATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MINUTE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MINUTE_MICROSECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MINUTE_SECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MIN_ROWS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MOD			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MODE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MODIFIES			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
MODIFY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MONTH			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MULTILINESTRING			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MULTIPOINT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MULTIPOLYGON			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MUTEX			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_ERRNO			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NAMES			Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
NATIONAL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NATURAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NCHAR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NDB			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NDBCLUSTER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NESTED	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
NETWORK	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
NEVER	5.7.4		Yes	Yes	Yes	Yes	Yes	Yes	Yes
NEW			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NEXT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NO			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NODEGROUP			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NONBLOCKING		5.7.6	Yes (R)						
NONE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NOWAIT	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes
NO_WAIT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NO_WRITE_TO_BINLOG			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NTH_VALUE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NTILE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NULL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NULLS	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
NUMBER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
NUMERIC			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
NVARCHAR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
OF	8.0.1			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OFF	8.0.20			Yes	Yes	Yes	Yes	Yes	Yes
OFFSET			Yes	Yes	Yes	Yes	Yes	Yes	Yes
OJ	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
OLD	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
OLD_PASSWORD		5.7.5	Yes						
ON			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ONE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ONLY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPEN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMIZE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OPTIMIZE_COSTS	5.7.5		Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OPTION			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
OPTIONAL	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
OPTIONALLY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OPTIONS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
OR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ORDER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ORDINAL	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
ORGANIZATION	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
OTHERS	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
OUT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OUTER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OUTFILE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OVER	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
OWNER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PACK_KEYS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PAGE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARALLEL						Yes (R)	Yes (R)	Yes (R)	Yes (R)
PARSER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARSE_GCOMPR	5.7.6		Yes						
PARSE_TREE					Yes	Yes	Yes	Yes	Yes
PARTIAL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARTITION			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
PARTITIONING			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARTITIONS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PASSWORD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PASSWORD_LOCK_TIME	8.0.19			Yes	Yes	Yes	Yes	Yes	Yes
PATH	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
PERCENT	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
PERSIST				Yes	Yes	Yes	Yes	Yes	Yes
PERSISTENT	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
PHASE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLUGIN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLUGINS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLUGIN_DIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
POINT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
POLYGON			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PORT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRECEDES	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRECEDING	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
PRECISION			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
PREPARE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRESERVE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PREV			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRIMARY			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
PRIVILEGES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PRIVILEGES	8.0.18	8.0.18		Yes	Yes	Yes	Yes	Yes	Yes
PROCEDURE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
PROCESS	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes
PROCESLIST			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROFILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROFILES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROXY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
PURGE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
QUALIFY							Yes (R)	Yes (R)	Yes (R)
QUARTER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUERY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUICK			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RANDOM	8.0.18			Yes	Yes	Yes	Yes	Yes	Yes
RANGE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RANK	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
READ			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
READS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
READ_ONLY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
READ_WRITE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REBUILD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RECOVER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RECURSIVE	8.0.1			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REDOFILE		8.0.3	Yes	Yes					
REDO_BUFFER_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REDUNDANT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REFERENCE	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
REFERENCES			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REGEXP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REGISTRATION	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
RELAY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELAYLOG			Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
RELAY_LOG_FILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELAY_LOG_POS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELAY_THREAD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELEASE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RELOAD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REMOTE	8.0.3	8.0.14		Yes					
REMOVE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RENAME			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REORGANIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPAIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPEAT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REPEATABLE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLACE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REPLICA	8.0.22			Yes	Yes	Yes	Yes	Yes	Yes
REPLICAS	8.0.22			Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_DB	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_TABLE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_IGNORE_DB	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_IGNORE_TABLE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_WRITE_DB	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_WILD_DO_TABLE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE_WILD_IGNORE_TABLE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLICATION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REQUIRE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
REQUIRE_FORMAT	8.0.19			Yes	Yes	Yes	Yes	Yes	Yes
RESET			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RESIGNAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RESOURCE	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
RESPECT	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
RESTART	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
RESTORE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RESTRICT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RESUME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RETAIN	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
RETURN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RETURNED_SQLSTATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
RETURNING	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
RETURNS			Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
REUSE	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
REVERSE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
REVOKE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RIGHT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RLIKE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ROLE				Yes	Yes	Yes	Yes	Yes	Yes
ROLLBACK			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROLLUP			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROTATE	5.7.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROUTINE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ROWS			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ROW_COUNT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW_FORMAT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW_NUMBER	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
RTREE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
S3						Yes	Yes	Yes	Yes
SAVEPOINT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEDULE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMA			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SCHEMAS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SCHEMA_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SECOND			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_ENGINE	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_ENGINE_ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_LOAD	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_LOAD	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
SECOND_MICROSECOND			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SECURITY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SELECT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SENSITIVE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SEPARATOR			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SERIAL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SERIALIZABLE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SERVER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SESSION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SET			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
SHARE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHOW			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SHUTDOWN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIGNAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SIGNED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIMPLE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SKIP	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes
SLAVE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SLOW			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SMALLINT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SNAPSHOT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOCKET			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SONAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOUNDS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOURCE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_POSITION	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_PORT	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SESSION_ALGORITHMS	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SOCKET_RETRY	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_BEAT_PERIOD	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CIPHER	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_KEY_PATH	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_COUNT	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CERT	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CIPHER_PATH	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CERT_PATH	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CIPHERS	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CIPHERS_PATH	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_CERT_PATH	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_SSL_VERIFY_SERVER_CERT	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
SOURCE_TEMPLATES	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_TEMPLATE	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_USER	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_ZIP_COMPRESSION_LEVEL	8.0.23			Yes	Yes	Yes	Yes	Yes	Yes
SPATIAL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SPECIFIC			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL_EXCEPTION			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQLSTATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL_WARNING			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL_AFTER_GTIDS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_AFTER_MTS_GAPS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_BEFORE_GTIDS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_BIG_RESULT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL_BUFFER_RESULT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_CACHE		8.0.3	Yes	Yes					
SQL_CALC_FOUND_ROWS			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL_NO_CACHE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_SMALL_RESULT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
SQL_THREAD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_DAY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_HOUR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_MINUTE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_MONTH			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_QUARTER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_SECOND			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_WEEK			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SQL_TSI_YEAR			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SRID	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
SSL			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
STACKED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
START			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STARTING			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
STARTS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STATS_AUTO_RECALC			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STATS_PERSISTENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STATS_SAMPLE_PAGES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STATUS			Yes	Yes	Yes	Yes	Yes	Yes	Yes



Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
STOP			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STORAGE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
STORED	5.7.6		Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
STRAIGHT_JOIN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
STREAM	8.0.20			Yes	Yes	Yes	Yes	Yes	Yes
STRING			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBCLASS_ORIGIN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBJECT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBPARTITION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUBPARTITIONS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUPER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUSPEND			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SWAPS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SWITCHES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSTEM	8.0.3			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TABLE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TABLES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLESAMPLE								Yes (R)	Yes (R)
TABLESPACE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_CHECKSUM			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TEMPORARY			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TEMPTABLE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TERMINATED			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TEXT			Yes	Yes	Yes	Yes	Yes	Yes	Yes
THAN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
THEN			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
THREAD_PRIORITY	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
TIES	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
TIME			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMESTAMP			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMESTAMPADD			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIMESTAMPDIFF			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TINYBLOB			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TINYINT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TINYTEXT			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TLS	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
TO			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
TRAILING			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TRANSACTION			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TRIGGER			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TRIGGERS			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TRUE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
TRUNCATE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TYPE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
TYPES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNBOUNDED	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
UNCOMMITTED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNDEFINED			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNDO			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UNDOFILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNDO_BUFFER_SIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNICODE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNINSTALL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNION			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UNIQUE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UNKNOWN			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UNLOCK			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UNREGISTERED	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
UNSIGNED			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UNTIL			Yes	Yes	Yes	Yes	Yes	Yes	Yes
UPDATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UPGRADE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
URL	8.0.32			Yes	Yes	Yes	Yes	Yes	Yes
USAGE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
USE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
USER			Yes	Yes	Yes	Yes	Yes	Yes	Yes
USER_RESOURCES			Yes	Yes	Yes	Yes	Yes	Yes	Yes
USE_FRM			Yes	Yes	Yes	Yes	Yes	Yes	Yes
USING			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UTC_DATE			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UTC_TIME			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
UTC_TIMESTAMP			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
VALIDATION	5.7.5		Yes	Yes	Yes	Yes	Yes	Yes	Yes
VALUE			Yes	Yes	Yes	Yes	Yes	Yes	Yes
VALUES			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
<a href="#">VARBINARY</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">VARCHAR</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">VARCHARACTER</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">VARIABLES</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">VARYING</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">VCPU</a>	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">VECTOR</a>									Yes
<a href="#">VIEW</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">VIRTUAL</a>	5.7.6		Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">VISIBLE</a>				Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WAIT</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WARNINGS</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WEEK</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WEIGHT_STRING</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WHEN</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">WHERE</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">WHILE</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">WINDOW</a>	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">WITH</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">WITHOUT</a>	5.7.5		Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WORK</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WRAPPER</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">WRITE</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">X509</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">XA</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">XID</a>	5.7.5		Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">XML</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">XOR</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">YEAR</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">YEAR_MONTH</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">ZEROFILL</a>			Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)	Yes (R)
<a href="#">ZONE</a>	8.0.22			Yes	Yes	Yes	Yes	Yes	Yes

## 7.1 Keywords and Reserved Words in MySQL 5.7

This section provides information about keywords and reserved words in MySQL 5.7.

- [MySQL 5.7 Keywords and Reserved Words](#)
- [MySQL 5.7 New Keywords and Reserved Words](#)

- [MySQL 5.7 Removed Keywords and Reserved Words](#)

## MySQL 5.7 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 5.7, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

### A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#); added in 5.7.6 (nonreserved)
- [ACTION](#)
- [ADD](#) (R)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#); added in 5.7.6 (nonreserved)
- [ANALYSE](#)
- [ANALYZE](#) (R)
- [AND](#) (R)
- [ANY](#)
- [AS](#) (R)
- [ASC](#) (R)
- [ASCII](#)
- [ASENSITIVE](#) (R)
- [AT](#)
- [AUTOEXTEND\\_SIZE](#)
- [AUTO\\_INCREMENT](#)
- [AVG](#)
- [AVG\\_ROW\\_LENGTH](#)

### B

- `BACKUP`
- `BEFORE` (R)
- `BEGIN`
- `BETWEEN` (R)
- `BIGINT` (R)
- `BINARY` (R)
- `BINLOG`
- `BIT`
- `BLOB` (R)
- `BLOCK`
- `BOOL`
- `BOOLEAN`
- `BOTH` (R)
- `BTREE`
- `BY` (R)
- `BYTE`

### C

- `CACHE`
- `CALL` (R)
- `CASCADE` (R)
- `CASCADED`
- `CASE` (R)
- `CATALOG_NAME`
- `CHAIN`
- `CHANGE` (R)
- `CHANGED`
- `CHANNEL`; added in 5.7.6 (nonreserved)
- `CHAR` (R)
- `CHARACTER` (R)
- `CHARSET`

- CHECK (R)
- CHECKSUM
- CIPHER
- CLASS\_ORIGIN
- CLIENT
- CLOSE
- COALESCE
- CODE
- COLLATE (R)
- COLLATION
- COLUMN (R)
- COLUMNS
- COLUMN\_FORMAT
- COLUMN\_NAME
- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPRESSED
- COMPRESSION; added in 5.7.8 (nonreserved)
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME
- CONSTRAINT\_SCHEMA
- CONTAINS

- CONTEXT
- CONTINUE (R)
- CONVERT (R)
- CPU
- CREATE (R)
- CROSS (R)
- CUBE
- CURRENT
- CURRENT\_DATE (R)
- CURRENT\_TIME (R)
- CURRENT\_TIMESTAMP (R)
- CURRENT\_USER (R)
- CURSOR (R)
- CURSOR\_NAME

## D

- DATA
- DATABASE (R)
- DATABASES (R)
- DATAFILE
- DATE
- DATETIME
- DAY
- DAY\_HOUR (R)
- DAY\_MICROSECOND (R)
- DAY\_MINUTE (R)
- DAY\_SECOND (R)
- DEALLOCATE
- DEC (R)
- DECIMAL (R)
- DECLARE (R)

- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DES_KEY_FILE`
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT` (R)
- `DISTINCTROW` (R)
- `DIV` (R)
- `DO`
- `DOUBLE` (R)
- `DROP` (R)
- `DUAL` (R)
- `DUMPFILE`
- `DUPLICATE`
- `DYNAMIC`

## E

- `EACH` (R)
- `ELSE` (R)
- `ELSEIF` (R)
- `ENABLE`



- `ENCLOSED` (R)
- `ENCRYPTION`; added in 5.7.11 (nonreserved)
- `END`
- `ENDS`
- `ENGINE`
- `ENGINES`
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED` (R)
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCHANGE`
- `EXECUTE`
- `EXISTS` (R)
- `EXIT` (R)
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN` (R)
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

### F

- `FALSE` (R)
- `FAST`
- `FAULTS`
- `FETCH` (R)
- `FIELDS`

- `FILE`
- `FILE_BLOCK_SIZE`; added in 5.7.6 (nonreserved)
- `FILTER`; added in 5.7.3 (nonreserved)
- `FIRST`
- `FIXED`
- `FLOAT (R)`
- `FLOAT4 (R)`
- `FLOAT8 (R)`
- `FLUSH`
- `FOLLOWS`; added in 5.7.2 (nonreserved)
- `FOR (R)`
- `FORCE (R)`
- `FOREIGN (R)`
- `FORMAT`
- `FOUND`
- `FROM (R)`
- `FULL`
- `FULLTEXT (R)`
- `FUNCTION`

## G

- `GENERAL`
- `GENERATED (R)`; added in 5.7.6 (reserved)
- `GEOMETRY`
- `GEOMETRYCOLLECTION`
- `GET (R)`
- `GET_FORMAT`
- `GLOBAL`
- `GRANT (R)`
- `GRANTS`
- `GROUP (R)`

- `GROUP_REPLICATION`; added in 5.7.6 (nonreserved)

## H

- `HANDLER`
- `HASH`
- `HAVING` (R)
- `HELP`
- `HIGH_PRIORITY` (R)
- `HOST`
- `HOSTS`
- `HOURL`
- `HOURL_MICROSECOND` (R)
- `HOURL_MINUTE` (R)
- `HOURL_SECOND` (R)

## I

- `IDENTIFIED`
- `IF` (R)
- `IGNORE` (R)
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN` (R)
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL_SIZE`
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`

- `INSTANCE`; added in 5.7.11 (nonreserved)

- `INT` (R)

- `INT1` (R)

- `INT2` (R)

- `INT3` (R)

- `INT4` (R)

- `INT8` (R)

- `INTEGER` (R)

- `INTERVAL` (R)

- `INTO` (R)

- `INVOKER`

- `IO`

- `IO_AFTER_GTIDS` (R)

- `IO_BEFORE_GTIDS` (R)

- `IO_THREAD`

- `IPC`

- `IS` (R)

- `ISOLATION`

- `ISSUER`

- `ITERATE` (R)

J

- `JOIN` (R)

- `JSON`; added in 5.7.8 (nonreserved)

K

- `KEY` (R)

- `KEYS` (R)

- `KEY_BLOCK_SIZE`

- `KILL` (R)

L

- `LANGUAGE`

- `LAST`
- `LEADING (R)`
- `LEAVE (R)`
- `LEAVES`
- `LEFT (R)`
- `LESS`
- `LEVEL`
- `LIKE (R)`
- `LIMIT (R)`
- `LINEAR (R)`
- `LINES (R)`
- `LINestring`
- `LIST`
- `LOAD (R)`
- `LOCAL`
- `LOCALTIME (R)`
- `LOCALTIMESTAMP (R)`
- `LOCK (R)`
- `LOCKS`
- `LOGFILE`
- `LOGS`
- `LONG (R)`
- `LOBLOB (R)`
- `LONGTEXT (R)`
- `LOOP (R)`
- `LOW_PRIORITY (R)`

## M

- `MASTER`
- `MASTER_AUTO_POSITION`
- `MASTER_BIND (R)`

- MASTER\_CONNECT\_RETRY
- MASTER\_DELAY
- MASTER\_HEARTBEAT\_PERIOD
- MASTER\_HOST
- MASTER\_LOG\_FILE
- MASTER\_LOG\_POS
- MASTER\_PASSWORD
- MASTER\_PORT
- MASTER\_RETRY\_COUNT
- MASTER\_SERVER\_ID
- MASTER\_SSL
- MASTER\_SSL\_CA
- MASTER\_SSL\_CAPATH
- MASTER\_SSL\_CERT
- MASTER\_SSL\_CIPHER
- MASTER\_SSL\_CRL
- MASTER\_SSL\_CRLPATH
- MASTER\_SSL\_KEY
- MASTER\_SSL\_VERIFY\_SERVER\_CERT (R)
- MASTER\_TLS\_VERSION; added in 5.7.10 (nonreserved)
- MASTER\_USER
- MATCH (R)
- MAXVALUE (R)
- MAX\_CONNECTIONS\_PER\_HOUR
- MAX\_QUERIES\_PER\_HOUR
- MAX\_ROWS
- MAX\_SIZE
- MAX\_STATEMENT\_TIME; added in 5.7.4 (nonreserved); removed in 5.7.8
- MAX\_UPDATES\_PER\_HOUR
- MAX\_USER\_CONNECTIONS

- MEDIUM
- MEDIUMBLOB (R)
- MEDIUMINT (R)
- MEDIUMTEXT (R)
- MEMORY
- MERGE
- MESSAGE\_TEXT
- MICROSECOND
- MIDDLEINT (R)
- MIGRATE
- MINUTE
- MINUTE\_MICROSECOND (R)
- MINUTE\_SECOND (R)
- MIN\_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL\_ERRNO

## N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR

- `NDB`
  - `NDBCLUSTER`
  - `NEVER`; added in 5.7.4 (nonreserved)
  - `NEW`
  - `NEXT`
  - `NO`
  - `NODEGROUP`
  - `NONBLOCKING`; removed in 5.7.6
  - `NONE`
  - `NOT (R)`
  - `NO_WAIT`
  - `NO_WRITE_TO_BINLOG (R)`
  - `NULL (R)`
  - `NUMBER`
  - `NUMERIC (R)`
  - `NVARCHAR`
- O
- `OFFSET`
  - `OLD_PASSWORD`; removed in 5.7.5
  - `ON (R)`
  - `ONE`
  - `ONLY`
  - `OPEN`
  - `OPTIMIZE (R)`
  - `OPTIMIZER_COSTS (R)`; added in 5.7.5 (reserved)
  - `OPTION (R)`
  - `OPTIONALLY (R)`
  - `OPTIONS`
  - `OR (R)`
  - `ORDER (R)`



- `OUT (R)`
- `OUTER (R)`
- `OUTFILE (R)`
- `OWNER`

### P

- `PACK_KEYS`
- `PAGE`
- `PARSER`
- `PARSE_GCOL_EXPR`; added in 5.7.6 (reserved); became nonreserved in 5.7.8
- `PARTIAL`
- `PARTITION (R)`
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`
- `PHASE`
- `PLUGIN`
- `PLUGINS`
- `PLUGIN_DIR`
- `POINT`
- `POLYGON`
- `PORT`
- `PRECEDES`; added in 5.7.2 (nonreserved)
- `PRECISION (R)`
- `PREPARE`
- `PRESERVE`
- `PREV`
- `PRIMARY (R)`
- `PRIVILEGES`
- `PROCEDURE (R)`
- `PROCESSLIST`

- PROFILE
- PROFILES
- PROXY
- PURGE (R)

## Q

- QUARTER
- QUERY
- QUICK

## R

- RANGE (R)
- READ (R)
- READS (R)
- READ\_ONLY
- READ\_WRITE (R)
- REAL (R)
- REBUILD
- RECOVER
- REDOFILE
- REDO\_BUFFER\_SIZE
- REDUNDANT
- REFERENCES (R)
- REGEXP (R)
- RELAY
- RELAYLOG
- RELAY\_LOG\_FILE
- RELAY\_LOG\_POS
- RELAY\_THREAD
- RELEASE (R)
- RELOAD
- REMOVE

- `RENAME` (R)
- `REORGANIZE`
- `REPAIR`
- `REPEAT` (R)
- `REPEATABLE`
- `REPLACE` (R)
- `REPLICATE_DO_DB`; added in 5.7.3 (nonreserved)
- `REPLICATE_DO_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATE_IGNORE_DB`; added in 5.7.3 (nonreserved)
- `REPLICATE_IGNORE_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATE_REWRITE_DB`; added in 5.7.3 (nonreserved)
- `REPLICATE_WILD_DO_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATE_WILD_IGNORE_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATION`
- `REQUIRE` (R)
- `RESET`
- `RESIGNAL` (R)
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNS`
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`; added in 5.7.11 (nonreserved)

- ROUTINE
- ROW
- ROWS
- ROW\_COUNT
- ROW\_FORMAT
- RTREE

## S

- SAVEPOINT
- SCHEDULE
- SCHEMA (R)
- SCHEMAS (R)
- SCHEMA\_NAME
- SECOND
- SECOND\_MICROSECOND (R)
- SECURITY
- SELECT (R)
- SENSITIVE (R)
- SEPARATOR (R)
- SERIAL
- SERIALIZABLE
- SERVER
- SESSION
- SET (R)
- SHARE
- SHOW (R)
- SHUTDOWN
- SIGNAL (R)
- SIGNED
- SIMPLE
- SLAVE

- SLOW
- SMALLINT (R)
- SNAPSHOT
- SOCKET
- SOME
- SONAME
- SOUNDS
- SOURCE
- SPATIAL (R)
- SPECIFIC (R)
- SQL (R)
- SQLEXCEPTION (R)
- SQLSTATE (R)
- SQLWARNING (R)
- SQL\_AFTER\_GTIDS
- SQL\_AFTER\_MTS\_GAPS
- SQL\_BEFORE\_GTIDS
- SQL\_BIG\_RESULT (R)
- SQL\_BUFFER\_RESULT
- SQL\_CACHE
- SQL\_CALC\_FOUND\_ROWS (R)
- SQL\_NO\_CACHE
- SQL\_SMALL\_RESULT (R)
- SQL\_THREAD
- SQL\_TSI\_DAY
- SQL\_TSI\_HOUR
- SQL\_TSI\_MINUTE
- SQL\_TSI\_MONTH
- SQL\_TSI\_QUARTER
- SQL\_TSI\_SECOND

- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SSL (R)`
- `STACKED`
- `START`
- `STARTING (R)`
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED (R)`; added in 5.7.6 (reserved)
- `STRAIGHT_JOIN (R)`
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`

### T

- `TABLE (R)`
- `TABLES`
- `TABLESPACE`
- `TABLE_CHECKSUM`
- `TABLE_NAME`

- TEMPORARY
  - TEMPTABLE
  - TERMINATED (R)
  - TEXT
  - THAN
  - THEN (R)
  - TIME
  - TIMESTAMP
  - TIMESTAMPADD
  - TIMESTAMPDIFF
  - TINYBLOB (R)
  - TINYINT (R)
  - TINYTEXT (R)
  - TO (R)
  - TRAILING (R)
  - TRANSACTION
  - TRIGGER (R)
  - TRIGGERS
  - TRUE (R)
  - TRUNCATE
  - TYPE
  - TYPES
- U
- UNCOMMITTED
  - UNDEFINED
  - UNDO (R)
  - UNDOFILE
  - UNDO\_BUFFER\_SIZE
  - UNICODE
  - UNINSTALL

- UNION (R)
- UNIQUE (R)
- UNKNOWN
- UNLOCK (R)
- UNSIGNED (R)
- UNTIL
- UPDATE (R)
- UPGRADE
- USAGE (R)
- USE (R)
- USER
- USER\_RESOURCES
- USE\_FRM
- USING (R)
- UTC\_DATE (R)
- UTC\_TIME (R)
- UTC\_TIMESTAMP (R)

V

- VALIDATION; added in 5.7.5 (nonreserved)
- VALUE
- VALUES (R)
- VARBINARY (R)
- VARCHAR (R)
- VARCHARACTER (R)
- VARIABLES
- VARYING (R)
- VIEW
- VIRTUAL (R); added in 5.7.6 (reserved)

W

- WAIT



- `WARNINGS`
  - `WEEK`
  - `WEIGHT_STRING`
  - `WHEN` (R)
  - `WHERE` (R)
  - `WHILE` (R)
  - `WITH` (R)
  - `WITHOUT`; added in 5.7.5 (nonreserved)
  - `WORK`
  - `WRAPPER`
  - `WRITE` (R)
- X
- `X509`
  - `XA`
  - `XID`; added in 5.7.5 (nonreserved)
  - `XML`
  - `XOR` (R)
- Y
- `YEAR`
  - `YEAR_MONTH` (R)
- Z
- `ZEROFILL` (R)

## MySQL 5.7 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 5.7, compared to MySQL 5.6. Reserved keywords are marked with (R).

[A](#) | [C](#) | [E](#) | [F](#) | [G](#) | [I](#) | [J](#) | [M](#) | [N](#) | [O](#) | [P](#) | [R](#) | [S](#) | [V](#) | [W](#) | [X](#)

A

- `ACCOUNT`
- `ALWAYS`

C

- CHANNEL

- COMPRESSION

## E

- ENCRYPTION

## F

- FILE\_BLOCK\_SIZE

- FILTER

- FOLLOWS

## G

- GENERATED (R)

- GROUP\_REPLICATION

## I

- INSTANCE

## J

- JSON

## M

- MASTER\_TLS\_VERSION

## N

- NEVER

## O

- OPTIMIZER\_COSTS (R)

## P

- PARSE\_GCOL\_EXPR

- PRECEDES

## R

- REPLICATE\_DO\_DB

- REPLICATE\_DO\_TABLE

- REPLICATE\_IGNORE\_DB

- REPLICATE\_IGNORE\_TABLE

- REPLICATE\_REWRITE\_DB

- [REPLICATE\\_WILD\\_DO\\_TABLE](#)
  - [REPLICATE\\_WILD\\_IGNORE\\_TABLE](#)
  - [ROTATE](#)
- S
- [STACKED](#)
  - [STORED \(R\)](#)
- V
- [VALIDATION](#)
  - [VIRTUAL \(R\)](#)
- W
- [WITHOUT](#)
- X
- [XID](#)

## MySQL 5.7 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 5.7, compared to MySQL 5.6. Reserved keywords are marked with (R).

- [OLD\\_PASSWORD](#)

## 7.2 Keywords and Reserved Words in MySQL 8.0

This section provides information about keywords and reserved words in MySQL 8.0.

- [MySQL 8.0 Keywords and Reserved Words](#)
- [MySQL 8.0 New Keywords and Reserved Words](#)
- [MySQL 8.0 Removed Keywords and Reserved Words](#)

## MySQL 8.0 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.0, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE \(R\)](#)
- [ACCOUNT](#)
- [ACTION](#)

- `ACTIVE`; added in 8.0.14 (nonreserved)
  - `ADD` (R)
  - `ADMIN`; became nonreserved in 8.0.12
  - `AFTER`
  - `AGAINST`
  - `AGGREGATE`
  - `ALGORITHM`
  - `ALL` (R)
  - `ALTER` (R)
  - `ALWAYS`
  - `ANALYSE`; removed in 8.0.1
  - `ANALYZE` (R)
  - `AND` (R)
  - `ANY`
  - `ARRAY`; added in 8.0.17 (reserved); became nonreserved in 8.0.19
  - `AS` (R)
  - `ASC` (R)
  - `ASCII`
  - `ASENSITIVE` (R)
  - `AT`
  - `ATTRIBUTE`; added in 8.0.21 (nonreserved)
  - `AUTHENTICATION`; added in 8.0.27 (nonreserved)
  - `AUTOEXTEND_SIZE`
  - `AUTO_INCREMENT`
  - `AVG`
  - `AVG_ROW_LENGTH`
- B**
- `BACKUP`
  - `BEFORE` (R)
  - `BEGIN`

- BETWEEN (R)
- BIGINT (R)
- BINARY (R)
- BINLOG
- BIT
- BLOB (R)
- BLOCK
- BOOL
- BOOLEAN
- BOTH (R)
- BTREE
- BUCKETS; added in 8.0.2 (nonreserved)
- BULK; added in 8.0.32 (nonreserved)
- BY (R)
- BYTE

## C

- CACHE
- CALL (R)
- CASCADE (R)
- CASCADED
- CASE (R)
- CATALOG\_NAME
- CHAIN
- CHALLENGE\_RESPONSE; added in 8.0.27 (nonreserved)
- CHANGE (R)
- CHANGED
- CHANNEL
- CHAR (R)
- CHARACTER (R)
- CHARSET

- CHECK (R)
- CHECKSUM
- CIPHER
- CLASS\_ORIGIN
- CLIENT
- CLONE; added in 8.0.3 (nonreserved)
- CLOSE
- COALESCE
- CODE
- COLLATE (R)
- COLLATION
- COLUMN (R)
- COLUMNS
- COLUMN\_FORMAT
- COLUMN\_NAME
- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPONENT
- COMPRESSED
- COMPRESSION
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME

- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE (R)`
- `CONVERT (R)`
- `CPU`
- `CREATE (R)`
- `CROSS (R)`
- `CUBE (R)`; became reserved in 8.0.1
- `CUME_DIST (R)`; added in 8.0.2 (reserved)
- `CURRENT`
- `CURRENT_DATE (R)`
- `CURRENT_TIME (R)`
- `CURRENT_TIMESTAMP (R)`
- `CURRENT_USER (R)`
- `CURSOR (R)`
- `CURSOR_NAME`

## D

- `DATA`
- `DATABASE (R)`
- `DATABASES (R)`
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR (R)`
- `DAY_MICROSECOND (R)`
- `DAY_MINUTE (R)`
- `DAY_SECOND (R)`
- `DEALLOCATE`

- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)
- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DEFINITION`; added in 8.0.4 (nonreserved)
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DENSE_RANK` (R); added in 8.0.2 (reserved)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`; added in 8.0.4 (nonreserved)
- `DES_KEY_FILE`; removed in 8.0.3
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT` (R)
- `DISTINCTROW` (R)
- `DIV` (R)
- `DO`
- `DOUBLE` (R)
- `DROP` (R)
- `DUAL` (R)
- `DUMPFIL`
- `DUPLICATE`



- `DYNAMIC`

### E

- `EACH` (R)
- `ELSE` (R)
- `ELSEIF` (R)
- `EMPTY` (R); added in 8.0.4 (reserved)
- `ENABLE`
- `ENCLOSED` (R)
- `ENCRYPTION`
- `END`
- `ENDS`
- `ENFORCED`; added in 8.0.16 (nonreserved)
- `ENGINE`
- `ENGINES`
- `ENGINE_ATTRIBUTE`; added in 8.0.21 (nonreserved)
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED` (R)
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT` (R)
- `EXCHANGE`
- `EXCLUDE`; added in 8.0.2 (nonreserved)
- `EXECUTE`
- `EXISTS` (R)
- `EXIT` (R)
- `EXPANSION`

- EXPIRE
- EXPLAIN (R)
- EXPORT
- EXTENDED
- EXTENT\_SIZE

## F

- FACTOR; added in 8.0.27 (nonreserved)
- FAILED\_LOGIN\_ATTEMPTS; added in 8.0.19 (nonreserved)
- FALSE (R)
- FAST
- FAULTS
- FETCH (R)
- FIELDS
- FILE
- FILE\_BLOCK\_SIZE
- FILTER
- FINISH; added in 8.0.27 (nonreserved)
- FIRST
- FIRST\_VALUE (R); added in 8.0.2 (reserved)
- FIXED
- FLOAT (R)
- FLOAT4 (R)
- FLOAT8 (R)
- FLUSH
- FOLLOWING; added in 8.0.2 (nonreserved)
- FOLLOWS
- FOR (R)
- FORCE (R)
- FOREIGN (R)
- FORMAT

- FOUND
- FROM (R)
- FULL
- FULLTEXT (R)
- FUNCTION (R); became reserved in 8.0.1

## G

- GENERAL
- GENERATE; added in 8.0.32 (nonreserved)
- GENERATED (R)
- GEOMCOLLECTION; added in 8.0.11 (nonreserved)
- GEOMETRY
- GEOMETRYCOLLECTION
- GET (R)
- GET\_FORMAT
- GET\_MASTER\_PUBLIC\_KEY; added in 8.0.4 (reserved); became nonreserved in 8.0.11
- GET\_SOURCE\_PUBLIC\_KEY; added in 8.0.23 (nonreserved)
- GLOBAL
- GRANT (R)
- GRANTS
- GROUP (R)
- GROUPING (R); added in 8.0.1 (reserved)
- GROUPS (R); added in 8.0.2 (reserved)
- GROUP\_REPLICATION
- GTID\_ONLY; added in 8.0.27 (nonreserved)

## H

- HANDLER
- HASH
- HAVING (R)
- HELP
- HIGH\_PRIORITY (R)

- `HISTOGRAM`; added in 8.0.2 (nonreserved)
- `HISTORY`; added in 8.0.3 (nonreserved)
- `HOST`
- `HOSTS`
- `HOURL`
- `HOURL_MICROSECOND` (R)
- `HOURL_MINUTE` (R)
- `HOURL_SECOND` (R)
- |
- `IDENTIFIED`
- `IF` (R)
- `IGNORE` (R)
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN` (R)
- `INACTIVE`; added in 8.0.14 (nonreserved)
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL`; added in 8.0.27 (nonreserved)
- `INITIAL_SIZE`
- `INITIATE`; added in 8.0.27 (nonreserved)
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT` (R)

- `INT1` (R)
- `INT2` (R)
- `INT3` (R)
- `INT4` (R)
- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R); added in 8.0.31 (reserved)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

## J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R); added in 8.0.4 (reserved)
- `JSON_VALUE`; added in 8.0.21 (nonreserved)

## K

- `KEY` (R)
- `KEYRING`; added in 8.0.24 (nonreserved)
- `KEYS` (R)
- `KEY_BLOCK_SIZE`

- `KILL` (R)

## L

- `LAG` (R); added in 8.0.2 (reserved)
- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R); added in 8.0.2 (reserved)
- `LATERAL` (R); added in 8.0.14 (reserved)
- `LEAD` (R); added in 8.0.2 (reserved)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINestring`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`; added in 8.0.1 (nonreserved)
- `LOCKS`
- `LOGFILE`
- `LOGS`
- `LONG` (R)

- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

## M

- `MASTER`
- `MASTER_AUTO_POSITION`
- `MASTER_BIND` (R)
- `MASTER_COMPRESSION_ALGORITHMS`; added in 8.0.18 (nonreserved)
- `MASTER_CONNECT_RETRY`
- `MASTER_DELAY`
- `MASTER_HEARTBEAT_PERIOD`
- `MASTER_HOST`
- `MASTER_LOG_FILE`
- `MASTER_LOG_POS`
- `MASTER_PASSWORD`
- `MASTER_PORT`
- `MASTER_PUBLIC_KEY_PATH`; added in 8.0.4 (nonreserved)
- `MASTER_RETRY_COUNT`
- `MASTER_SERVER_ID`; removed in 8.0.23
- `MASTER_SSL`
- `MASTER_SSL_CA`
- `MASTER_SSL_CAPATH`
- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_CIPHERSUITES`; added in 8.0.19 (nonreserved)

- MASTER\_TLS\_VERSION
- MASTER\_USER
- MASTER\_ZSTD\_COMPRESSION\_LEVEL; added in 8.0.18 (nonreserved)
- MATCH (R)
- MAXVALUE (R)
- MAX\_CONNECTIONS\_PER\_HOUR
- MAX\_QUERIES\_PER\_HOUR
- MAX\_ROWS
- MAX\_SIZE
- MAX\_UPDATES\_PER\_HOUR
- MAX\_USER\_CONNECTIONS
- MEDIUM
- MEDIUMBLOB (R)
- MEDIUMINT (R)
- MEDIUMTEXT (R)
- MEMBER; added in 8.0.17 (reserved); became nonreserved in 8.0.19
- MEMORY
- MERGE
- MESSAGE\_TEXT
- MICROSECOND
- MIDDLEINT (R)
- MIGRATE
- MINUTE
- MINUTE\_MICROSECOND (R)
- MINUTE\_SECOND (R)
- MIN\_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY



- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL\_ERRNO

### N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR
- NDB
- NDBCLUSTER
- NESTED; added in 8.0.4 (nonreserved)
- NETWORK\_NAMESPACE; added in 8.0.16 (nonreserved)
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP
- NONE
- NOT (R)
- NOWAIT; added in 8.0.1 (nonreserved)
- NO\_WAIT
- NO\_WRITE\_TO\_BINLOG (R)
- NTH\_VALUE (R); added in 8.0.2 (reserved)
- NTILE (R); added in 8.0.2 (reserved)
- NULL (R)
- NULLS; added in 8.0.2 (nonreserved)

- NUMBER

- NUMERIC (R)

- NVARCHAR

O

- OF (R); added in 8.0.1 (reserved)

- OFF; added in 8.0.20 (nonreserved)

- OFFSET

- OJ; added in 8.0.16 (nonreserved)

- OLD; added in 8.0.14 (nonreserved)

- ON (R)

- ONE

- ONLY

- OPEN

- OPTIMIZE (R)

- OPTIMIZER\_COSTS (R)

- OPTION (R)

- OPTIONAL; added in 8.0.13 (nonreserved)

- OPTIONALLY (R)

- OPTIONS

- OR (R)

- ORDER (R)

- ORDINALITY; added in 8.0.4 (nonreserved)

- ORGANIZATION; added in 8.0.4 (nonreserved)

- OTHERS; added in 8.0.2 (nonreserved)

- OUT (R)

- OUTER (R)

- OUTFILE (R)

- OVER (R); added in 8.0.2 (reserved)

- OWNER

P

- `PACK_KEYS`
- `PAGE`
- `PARSER`
- `PARTIAL`
- `PARTITION (R)`
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`
- `PASSWORD_LOCK_TIME`; added in 8.0.19 (nonreserved)
- `PATH`; added in 8.0.4 (nonreserved)
- `PERCENT_RANK (R)`; added in 8.0.2 (reserved)
- `PERSIST`; became nonreserved in 8.0.16
- `PERSIST_ONLY`; added in 8.0.2 (reserved); became nonreserved in 8.0.16
- `PHASE`
- `PLUGIN`
- `PLUGINS`
- `PLUGIN_DIR`
- `POINT`
- `POLYGON`
- `PORT`
- `PRECEDES`
- `PRECEDING`; added in 8.0.2 (nonreserved)
- `PRECISION (R)`
- `PREPARE`
- `PRESERVE`
- `PREV`
- `PRIMARY (R)`
- `PRIVILEGES`
- `PRIVILEGE_CHECKS_USER`; added in 8.0.18 (nonreserved)
- `PROCEDURE (R)`

- `PROCESS`; added in 8.0.11 (nonreserved)

- `PROCESLIST`

- `PROFILE`

- `PROFILES`

- `PROXY`

- `PURGE` (R)

## Q

- `QUARTER`

- `QUERY`

- `QUICK`

## R

- `RANDOM`; added in 8.0.18 (nonreserved)

- `RANGE` (R)

- `RANK` (R); added in 8.0.2 (reserved)

- `READ` (R)

- `READS` (R)

- `READ_ONLY`

- `READ_WRITE` (R)

- `REAL` (R)

- `REBUILD`

- `RECOVER`

- `RECURSIVE` (R); added in 8.0.1 (reserved)

- `REDOFILE`; removed in 8.0.3

- `REDO_BUFFER_SIZE`

- `REDUNDANT`

- `REFERENCE`; added in 8.0.4 (nonreserved)

- `REFERENCES` (R)

- `REGEXP` (R)

- `REGISTRATION`; added in 8.0.27 (nonreserved)

- `RELAY`

- RELAYLOG
- RELAY\_LOG\_FILE
- RELAY\_LOG\_POS
- RELAY\_THREAD
- RELEASE (R)
- RELOAD
- REMOTE; added in 8.0.3 (nonreserved); removed in 8.0.14
- REMOVE
- RENAME (R)
- REORGANIZE
- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA; added in 8.0.22 (nonreserved)
- REPLICAS; added in 8.0.22 (nonreserved)
- REPLICATE\_DO\_DB
- REPLICATE\_DO\_TABLE
- REPLICATE\_IGNORE\_DB
- REPLICATE\_IGNORE\_TABLE
- REPLICATE\_REWRITE\_DB
- REPLICATE\_WILD\_DO\_TABLE
- REPLICATE\_WILD\_IGNORE\_TABLE
- REPLICATION
- REQUIRE (R)
- REQUIRE\_ROW\_FORMAT; added in 8.0.19 (nonreserved)
- RESET
- RESIGNAL (R)
- RESOURCE; added in 8.0.3 (nonreserved)
- RESPECT; added in 8.0.2 (nonreserved)

- `RESTART`; added in 8.0.4 (nonreserved)
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETAIN`; added in 8.0.14 (nonreserved)
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNING`; added in 8.0.21 (nonreserved)
- `RETURNS`
- `REUSE`; added in 8.0.3 (nonreserved)
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLE`; became nonreserved in 8.0.1
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`
- `ROUTINE`
- `ROW` (R); became reserved in 8.0.2
- `ROWS` (R); became reserved in 8.0.2
- `ROW_COUNT`
- `ROW_FORMAT`
- `ROW_NUMBER` (R); added in 8.0.2 (reserved)
- `RTREE`

## S

- `SAVEPOINT`
- `SCHEDULE`
- `SCHEMA` (R)
- `SCHEMAS` (R)

- `SCHEMA_NAME`
- `SECOND`
- `SECONDARY`; added in 8.0.16 (nonreserved)
- `SECONDARY_ENGINE`; added in 8.0.13 (nonreserved)
- `SECONDARY_ENGINE_ATTRIBUTE`; added in 8.0.21 (nonreserved)
- `SECONDARY_LOAD`; added in 8.0.13 (nonreserved)
- `SECONDARY_UNLOAD`; added in 8.0.13 (nonreserved)
- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`; added in 8.0.1 (nonreserved)
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`

- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`; added in 8.0.23 (nonreserved)
- `SOURCE_BIND`; added in 8.0.23 (nonreserved)
- `SOURCE_COMPRESSION_ALGORITHMS`; added in 8.0.23 (nonreserved)
- `SOURCE_CONNECT_RETRY`; added in 8.0.23 (nonreserved)
- `SOURCE_DELAY`; added in 8.0.23 (nonreserved)
- `SOURCE_HEARTBEAT_PERIOD`; added in 8.0.23 (nonreserved)
- `SOURCE_HOST`; added in 8.0.23 (nonreserved)
- `SOURCE_LOG_FILE`; added in 8.0.23 (nonreserved)
- `SOURCE_LOG_POS`; added in 8.0.23 (nonreserved)
- `SOURCE_PASSWORD`; added in 8.0.23 (nonreserved)
- `SOURCE_PORT`; added in 8.0.23 (nonreserved)
- `SOURCE_PUBLIC_KEY_PATH`; added in 8.0.23 (nonreserved)
- `SOURCE_RETRY_COUNT`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CA`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CAPATH`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CERT`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CIPHER`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CRL`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CRLPATH`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_KEY`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_VERIFY_SERVER_CERT`; added in 8.0.23 (nonreserved)
- `SOURCE_TLS_CIPHERSUITES`; added in 8.0.23 (nonreserved)
- `SOURCE_TLS_VERSION`; added in 8.0.23 (nonreserved)
- `SOURCE_USER`; added in 8.0.23 (nonreserved)
- `SOURCE_ZSTD_COMPRESSION_LEVEL`; added in 8.0.23 (nonreserved)
- `SPATIAL` (R)



- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CACHE`; removed in 8.0.3
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`; added in 8.0.3 (nonreserved)
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`

- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED (R)`
- `STRAIGHT_JOIN (R)`
- `STREAM`; added in 8.0.20 (nonreserved)
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`
- `SYSTEM (R)`; added in 8.0.3 (reserved)

## T

- `TABLE (R)`
- `TABLES`
- `TABLESPACE`
- `TABLE_CHECKSUM`
- `TABLE_NAME`
- `TEMPORARY`
- `TEMPTABLE`
- `TERMINATED (R)`
- `TEXT`
- `THAN`
- `THEN (R)`

- `THREAD_PRIORITY`; added in 8.0.3 (nonreserved)
- `TIES`; added in 8.0.2 (nonreserved)
- `TIME`
- `TIMESTAMP`
- `TIMESTAMPADD`
- `TIMESTAMPDIFF`
- `TINYBLOB` (R)
- `TINYINT` (R)
- `TINYTEXT` (R)
- `TLS`; added in 8.0.21 (nonreserved)
- `TO` (R)
- `TRAILING` (R)
- `TRANSACTION`
- `TRIGGER` (R)
- `TRIGGERS`
- `TRUE` (R)
- `TRUNCATE`
- `TYPE`
- `TYPES`

## U

- `UNBOUNDED`; added in 8.0.2 (nonreserved)
- `UNCOMMITTED`
- `UNDEFINED`
- `UNDO` (R)
- `UNDOFILE`
- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION` (R)
- `UNIQUE` (R)

- UNKNOWN
- UNLOCK (R)
- UNREGISTER; added in 8.0.27 (nonreserved)
- UNSIGNED (R)
- UNTIL
- UPDATE (R)
- UPGRADE
- URL; added in 8.0.32 (nonreserved)
- USAGE (R)
- USE (R)
- USER
- USER\_RESOURCES
- USE\_FRM
- USING (R)
- UTC\_DATE (R)
- UTC\_TIME (R)
- UTC\_TIMESTAMP (R)

V

- VALIDATION
- VALUE
- VALUES (R)
- VARBINARY (R)
- VARCHAR (R)
- VARCHARACTER (R)
- VARIABLES
- VARYING (R)
- VCPU; added in 8.0.3 (nonreserved)
- VIEW
- VIRTUAL (R)
- VISIBLE

## W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R); added in 8.0.2 (reserved)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

## X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

## Y

- `YEAR`
- `YEAR_MONTH` (R)

## Z

- `ZEROFILL` (R)
- `ZONE`; added in 8.0.22 (nonreserved)

## MySQL 8.0 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.0, compared to MySQL 5.7. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [Z](#)

## A

- ACTIVE
- ADMIN
- ARRAY
- ATTRIBUTE
- AUTHENTICATION

## B

- BUCKETS
- BULK

## C

- CHALLENGE\_RESPONSE
- CLONE
- COMPONENT
- CUME\_DIST (R)

## D

- DEFINITION
- DENSE\_RANK (R)
- DESCRIPTION

## E

- EMPTY (R)
- ENFORCED
- ENGINE\_ATTRIBUTE
- EXCEPT (R)
- EXCLUDE

## F

- FACTOR
- FAILED\_LOGIN\_ATTEMPTS
- FINISH
- FIRST\_VALUE (R)
- FOLLOWING

## G

- GENERATE
- GEOMCOLLECTION
- GET\_MASTER\_PUBLIC\_KEY
- GET\_SOURCE\_PUBLIC\_KEY
- GROUPING (R)
- GROUPS (R)
- GTID\_ONLY

## H

- HISTOGRAM
- HISTORY

## I

- INACTIVE
- INITIAL
- INITIATE
- INTERSECT (R)
- INVISIBLE

## J

- JSON\_TABLE (R)
- JSON\_VALUE

## K

- KEYRING

## L

- LAG (R)
- LAST\_VALUE (R)
- LATERAL (R)
- LEAD (R)
- LOCKED

## M

- MASTER\_COMPRESSION\_ALGORITHMS
- MASTER\_PUBLIC\_KEY\_PATH

- MASTER\_TLS\_CIPHERSUITES
- MASTER\_ZSTD\_COMPRESSION\_LEVEL
- MEMBER

## N

- NESTED
- NETWORK\_NAMESPACE
- NOWAIT
- NTH\_VALUE (R)
- NTILE (R)
- NULLS

## O

- OF (R)
- OFF
- OJ
- OLD
- OPTIONAL
- ORDINALITY
- ORGANIZATION
- OTHERS
- OVER (R)

## P

- PASSWORD\_LOCK\_TIME
- PATH
- PERCENT\_RANK (R)
- PERSIST
- PERSIST\_ONLY
- PRECEDING
- PRIVILEGE\_CHECKS\_USER
- PROCESS

## R



- RANDOM
- RANK (R)
- RECURSIVE (R)
- REFERENCE
- REGISTRATION
- REPLICA
- REPLICAS
- REQUIRE\_ROW\_FORMAT
- RESOURCE
- RESPECT
- RESTART
- RETAIN
- RETURNING
- REUSE
- ROLE
- ROW\_NUMBER (R)

### S

- SECONDARY
- SECONDARY\_ENGINE
- SECONDARY\_ENGINE\_ATTRIBUTE
- SECONDARY\_LOAD
- SECONDARY\_UNLOAD
- SKIP
- SOURCE\_AUTO\_POSITION
- SOURCE\_BIND
- SOURCE\_COMPRESSION\_ALGORITHMS
- SOURCE\_CONNECT\_RETRY
- SOURCE\_DELAY
- SOURCE\_HEARTBEAT\_PERIOD
- SOURCE\_HOST

- SOURCE\_LOG\_FILE
- SOURCE\_LOG\_POS
- SOURCE\_PASSWORD
- SOURCE\_PORT
- SOURCE\_PUBLIC\_KEY\_PATH
- SOURCE\_RETRY\_COUNT
- SOURCE\_SSL
- SOURCE\_SSL\_CA
- SOURCE\_SSL\_CAPATH
- SOURCE\_SSL\_CERT
- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION
- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SRID
- STREAM
- SYSTEM (R)

### T

- THREAD\_PRIORITY
- TIES
- TLS

### U

- UNBOUNDED
- UNREGISTER
- URL

V

- [VCPU](#)
- [VISIBLE](#)

W

- [WINDOW](#) (R)

Z

- [ZONE](#)

## MySQL 8.0 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.0, compared to MySQL 5.7. Reserved keywords are marked with (R).

- [ANALYSE](#)
- [DES\\_KEY\\_FILE](#)
- [MASTER\\_SERVER\\_ID](#)
- [PARSE\\_GCOL\\_EXPR](#)
- [REDOFILE](#)
- [SQL\\_CACHE](#)

## 7.3 Keywords and Reserved Words in MySQL 8.1

This section provides information about keywords and reserved words in MySQL 8.1.

- [MySQL 8.1 Keywords and Reserved Words](#)
- [MySQL 8.1 New Keywords and Reserved Words](#)
- [MySQL 8.1 Removed Keywords and Reserved Words](#)

## MySQL 8.1 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.1, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)

- `ADD (R)`
- `ADMIN`
- `AFTER`
- `AGAINST`
- `AGGREGATE`
- `ALGORITHM`
- `ALL (R)`
- `ALTER (R)`
- `ALWAYS`
- `ANALYZE (R)`
- `AND (R)`
- `ANY`
- `ARRAY`
- `AS (R)`
- `ASC (R)`
- `ASCII`
- `ASENSITIVE (R)`
- `AT`
- `ATTRIBUTE`
- `AUTHENTICATION`
- `AUTOEXTEND_SIZE`
- `AUTO_INCREMENT`
- `AVG`
- `AVG_ROW_LENGTH`

## **B**

- `BACKUP`
- `BEFORE (R)`
- `BEGIN`
- `BETWEEN (R)`
- `BIGINT (R)`

- `BINARY (R)`
- `BINLOG`
- `BIT`
- `BLOB (R)`
- `BLOCK`
- `BOOL`
- `BOOLEAN`
- `BOTH (R)`
- `BTREE`
- `BUCKETS`
- `BULK`
- `BY (R)`
- `BYTE`

### C

- `CACHE`
- `CALL (R)`
- `CASCADE (R)`
- `CASCADED`
- `CASE (R)`
- `CATALOG_NAME`
- `CHAIN`
- `CHALLENGE_RESPONSE`
- `CHANGE (R)`
- `CHANGED`
- `CHANNEL`
- `CHAR (R)`
- `CHARACTER (R)`
- `CHARSET`
- `CHECK (R)`
- `CHECKSUM`

- CIPHER
- CLASS\_ORIGIN
- CLIENT
- CLONE
- CLOSE
- COALESCE
- CODE
- COLLATE (R)
- COLLATION
- COLUMN (R)
- COLUMNS
- COLUMN\_FORMAT
- COLUMN\_NAME
- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPONENT
- COMPRESSED
- COMPRESSION
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME
- CONSTRAINT\_SCHEMA
- CONTAINS

- CONTEXT
- CONTINUE (R)
- CONVERT (R)
- CPU
- CREATE (R)
- CROSS (R)
- CUBE (R)
- CUME\_DIST (R)
- CURRENT
- CURRENT\_DATE (R)
- CURRENT\_TIME (R)
- CURRENT\_TIMESTAMP (R)
- CURRENT\_USER (R)
- CURSOR (R)
- CURSOR\_NAME

## D

- DATA
- DATABASE (R)
- DATABASES (R)
- DATAFILE
- DATE
- DATETIME
- DAY
- DAY\_HOUR (R)
- DAY\_MICROSECOND (R)
- DAY\_MINUTE (R)
- DAY\_SECOND (R)
- DEALLOCATE
- DEC (R)
- DECIMAL (R)

- `DECLARE` (R)
  - `DEFAULT` (R)
  - `DEFAULT_AUTH`
  - `DEFINER`
  - `DEFINITION`
  - `DELAYED` (R)
  - `DELAY_KEY_WRITE`
  - `DELETE` (R)
  - `DENSE_RANK` (R)
  - `DESC` (R)
  - `DESCRIBE` (R)
  - `DESCRIPTION`
  - `DETERMINISTIC` (R)
  - `DIAGNOSTICS`
  - `DIRECTORY`
  - `DISABLE`
  - `DISCARD`
  - `DISK`
  - `DISTINCT` (R)
  - `DISTINCTROW` (R)
  - `DIV` (R)
  - `DO`
  - `DOUBLE` (R)
  - `DROP` (R)
  - `DUAL` (R)
  - `DUMPFIELD`
  - `DUPLICATE`
  - `DYNAMIC`
- E
- `EACH` (R)



- `ELSE (R)`
- `ELSEIF (R)`
- `EMPTY (R)`
- `ENABLE`
- `ENCLOSED (R)`
- `ENCRYPTION`
- `END`
- `ENDS`
- `ENFORCED`
- `ENGINE`
- `ENGINES`
- `ENGINE_ATTRIBUTE`
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED (R)`
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT (R)`
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS (R)`
- `EXIT (R)`
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN (R)`
- `EXPORT`

- EXTENDED
- EXTENT\_SIZE

## F

- FACTOR
- FAILED\_LOGIN\_ATTEMPTS
- FALSE (R)
- FAST
- FAULTS
- FETCH (R)
- FIELDS
- FILE
- FILE\_BLOCK\_SIZE
- FILTER
- FINISH
- FIRST
- FIRST\_VALUE (R)
- FIXED
- FLOAT (R)
- FLOAT4 (R)
- FLOAT8 (R)
- FLUSH
- FOLLOWING
- FOLLOWS
- FOR (R)
- FORCE (R)
- FOREIGN (R)
- FORMAT
- FOUND
- FROM (R)
- FULL

- FULLTEXT (R)

- FUNCTION (R)

## G

- GENERAL

- GENERATE

- GENERATED (R)

- GEOMCOLLECTION

- GEOMETRY

- GEOMETRYCOLLECTION

- GET (R)

- GET\_FORMAT

- GET\_MASTER\_PUBLIC\_KEY

- GET\_SOURCE\_PUBLIC\_KEY

- GLOBAL

- GRANT (R)

- GRANTS

- GROUP (R)

- GROUPING (R)

- GROUPS (R)

- GROUP\_REPLICATION

- GTID\_ONLY

## H

- HANDLER

- HASH

- HAVING (R)

- HELP

- HIGH\_PRIORITY (R)

- HISTOGRAM

- HISTORY

- HOST

- HOSTS
- HOUR
- HOUR\_MICROSECOND (R)
- HOUR\_MINUTE (R)
- HOUR\_SECOND (R)
- |
- IDENTIFIED
- IF (R)
- IGNORE (R)
- IGNORE\_SERVER\_IDS
- IMPORT
- IN (R)
- INACTIVE
- INDEX (R)
- INDEXES
- INFILE (R)
- INITIAL
- INITIAL\_SIZE
- INITIATE
- INNER (R)
- INOUT (R)
- INSENSITIVE (R)
- INSERT (R)
- INSERT\_METHOD
- INSTALL
- INSTANCE
- INT (R)
- INT1 (R)
- INT2 (R)
- INT3 (R)

- `INT4` (R)
- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

## J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

## K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

## L

- `LAG` (R)

- LANGUAGE
- LAST
- LAST\_VALUE (R)
- LATERAL (R)
- LEAD (R)
- LEADING (R)
- LEAVE (R)
- LEAVES
- LEFT (R)
- LESS
- LEVEL
- LIKE (R)
- LIMIT (R)
- LINEAR (R)
- LINES (R)
- LINestring
- LIST
- LOAD (R)
- LOCAL
- LOCALTIME (R)
- LOCALTIMESTAMP (R)
- LOCK (R)
- LOCKED
- LOCKS
- LOGFILE
- LOGS
- LONG (R)
- LONGBLOB (R)
- LONGTEXT (R)
- LOOP (R)

- `LOW_PRIORITY` (R)

## M

- `MASTER`
- `MASTER_AUTO_POSITION`
- `MASTER_BIND` (R)
- `MASTER_COMPRESSION_ALGORITHMS`
- `MASTER_CONNECT_RETRY`
- `MASTER_DELAY`
- `MASTER_HEARTBEAT_PERIOD`
- `MASTER_HOST`
- `MASTER_LOG_FILE`
- `MASTER_LOG_POS`
- `MASTER_PASSWORD`
- `MASTER_PORT`
- `MASTER_PUBLIC_KEY_PATH`
- `MASTER_RETRY_COUNT`
- `MASTER_SSL`
- `MASTER_SSL_CA`
- `MASTER_SSL_CAPATH`
- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_CIPHERSUITES`
- `MASTER_TLS_VERSION`
- `MASTER_USER`
- `MASTER_ZSTD_COMPRESSION_LEVEL`
- `MATCH` (R)

- MAXVALUE (R)
- MAX\_CONNECTIONS\_PER\_HOUR
- MAX\_QUERIES\_PER\_HOUR
- MAX\_ROWS
- MAX\_SIZE
- MAX\_UPDATES\_PER\_HOUR
- MAX\_USER\_CONNECTIONS
- MEDIUM
- MEDIUMBLOB (R)
- MEDIUMINT (R)
- MEDIUMTEXT (R)
- MEMBER
- MEMORY
- MERGE
- MESSAGE\_TEXT
- MICROSECOND
- MIDDLEINT (R)
- MIGRATE
- MINUTE
- MINUTE\_MICROSECOND (R)
- MINUTE\_SECOND (R)
- MIN\_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON



- MUTEX
- MYSQL\_ERRNO

### N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR
- NDB
- NDBCLUSTER
- NESTED
- NETWORK\_NAMESPACE
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP
- NONE
- NOT (R)
- NOWAIT
- NO\_WAIT
- NO\_WRITE\_TO\_BINLOG (R)
- NTH\_VALUE (R)
- NTILE (R)
- NULL (R)
- NULLS
- NUMBER
- NUMERIC (R)
- NVARCHAR

### O

- `OF (R)`
- `OFF`
- `OFFSET`
- `OJ`
- `OLD`
- `ON (R)`
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE (R)`
- `OPTIMIZER_COSTS (R)`
- `OPTION (R)`
- `OPTIONAL`
- `OPTIONALLY (R)`
- `OPTIONS`
- `OR (R)`
- `ORDER (R)`
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT (R)`
- `OUTER (R)`
- `OUTFILE (R)`
- `OVER (R)`
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARSER`
- `PARSE_TREE`

- PARTIAL
- PARTITION (R)
- PARTITIONING
- PARTITIONS
- PASSWORD
- PASSWORD\_LOCK\_TIME
- PATH
- PERCENT\_RANK (R)
- PERSIST
- PERSIST\_ONLY
- PHASE
- PLUGIN
- PLUGINS
- PLUGIN\_DIR
- POINT
- POLYGON
- PORT
- PRECEDES
- PRECEDING
- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PRIVILEGE\_CHECKS\_USER
- PROCEDURE (R)
- PROCESS
- PROCESSLIST
- PROFILE

- `PROFILES`

- `PROXY`

- `PURGE (R)`

## Q

- `QUARTER`

- `QUERY`

- `QUICK`

## R

- `RANDOM`

- `RANGE (R)`

- `RANK (R)`

- `READ (R)`

- `READS (R)`

- `READ_ONLY`

- `READ_WRITE (R)`

- `REAL (R)`

- `REBUILD`

- `RECOVER`

- `RECURSIVE (R)`

- `REDO_BUFFER_SIZE`

- `REDUNDANT`

- `REFERENCE`

- `REFERENCES (R)`

- `REGEXP (R)`

- `REGISTRATION`

- `RELAY`

- `RELAYLOG`

- `RELAY_LOG_FILE`

- `RELAY_LOG_POS`

- `RELAY_THREAD`

- `RELEASE (R)`
- `RELOAD`
- `REMOVE`
- `RENAME (R)`
- `REORGANIZE`
- `REPAIR`
- `REPEAT (R)`
- `REPEATABLE`
- `REPLACE (R)`
- `REPLICA`
- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE (R)`
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL (R)`
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT (R)`
- `RESUME`
- `RETAIN`

- RETURN (R)
- RETURNED\_SQLSTATE
- RETURNING
- RETURNS
- REUSE
- REVERSE
- REVOKE (R)
- RIGHT (R)
- RLIKE (R)
- ROLE
- ROLLBACK
- ROLLUP
- ROTATE
- ROUTINE
- ROW (R)
- ROWS (R)
- ROW\_COUNT
- ROW\_FORMAT
- ROW\_NUMBER (R)
- RTREE

## S

- SAVEPOINT
- SCHEDULE
- SCHEMA (R)
- SCHEMAS (R)
- SCHEMA\_NAME
- SECOND
- SECONDARY
- SECONDARY\_ENGINE
- SECONDARY\_ENGINE\_ATTRIBUTE

- `SECONDARY_LOAD`
- `SECONDARY_UNLOAD`
- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`

- SOURCE\_COMPRESSION\_ALGORITHMS
- SOURCE\_CONNECT\_RETRY
- SOURCE\_DELAY
- SOURCE\_HEARTBEAT\_PERIOD
- SOURCE\_HOST
- SOURCE\_LOG\_FILE
- SOURCE\_LOG\_POS
- SOURCE\_PASSWORD
- SOURCE\_PORT
- SOURCE\_PUBLIC\_KEY\_PATH
- SOURCE\_RETRY\_COUNT
- SOURCE\_SSL
- SOURCE\_SSL\_CA
- SOURCE\_SSL\_CAPATH
- SOURCE\_SSL\_CERT
- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION
- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SPATIAL (R)
- SPECIFIC (R)
- SQL (R)
- SQLEXCEPTION (R)
- SQLSTATE (R)
- SQLWARNING (R)



- SQL\_AFTER\_GTIDS
- SQL\_AFTER\_MTS\_GAPS
- SQL\_BEFORE\_GTIDS
- SQL\_BIG\_RESULT (R)
- SQL\_BUFFER\_RESULT
- SQL\_CALC\_FOUND\_ROWS (R)
- SQL\_NO\_CACHE
- SQL\_SMALL\_RESULT (R)
- SQL\_THREAD
- SQL\_TSI\_DAY
- SQL\_TSI\_HOUR
- SQL\_TSI\_MINUTE
- SQL\_TSI\_MONTH
- SQL\_TSI\_QUARTER
- SQL\_TSI\_SECOND
- SQL\_TSI\_WEEK
- SQL\_TSI\_YEAR
- SRID
- SSL (R)
- STACKED
- START
- STARTING (R)
- STARTS
- STATS\_AUTO\_RECALC
- STATS\_PERSISTENT
- STATS\_SAMPLE\_PAGES
- STATUS
- STOP
- STORAGE
- STORED (R)

- `STRAIGHT_JOIN` (R)
- `STREAM`
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`
- `SYSTEM` (R)

## T

- `TABLE` (R)
- `TABLES`
- `TABLESPACE`
- `TABLE_CHECKSUM`
- `TABLE_NAME`
- `TEMPORARY`
- `TEMPTABLE`
- `TERMINATED` (R)
- `TEXT`
- `THAN`
- `THEN` (R)
- `THREAD_PRIORITY`
- `TIES`
- `TIME`
- `TIMESTAMP`
- `TIMESTAMPADD`
- `TIMESTAMPDIFF`

- TINYBLOB (R)
- TINYINT (R)
- TINYTEXT (R)
- TLS
- TO (R)
- TRAILING (R)
- TRANSACTION
- TRIGGER (R)
- TRIGGERS
- TRUE (R)
- TRUNCATE
- TYPE
- TYPES

## U

- UNBOUNDED
- UNCOMMITTED
- UNDEFINED
- UNDO (R)
- UNDOFILE
- UNDO\_BUFFER\_SIZE
- UNICODE
- UNINSTALL
- UNION (R)
- UNIQUE (R)
- UNKNOWN
- UNLOCK (R)
- UNREGISTER
- UNSIGNED (R)
- UNTIL
- UPDATE (R)

- `UPGRADE`
- `URL`
- `USAGE (R)`
- `USE (R)`
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING (R)`
- `UTC_DATE (R)`
- `UTC_TIME (R)`
- `UTC_TIMESTAMP (R)`

V

- `VALIDATION`
- `VALUE`
- `VALUES (R)`
- `VARBINARY (R)`
- `VARCHAR (R)`
- `VARCHARACTER (R)`
- `VARIABLES`
- `VARYING (R)`
- `VCPU`
- `VIEW`
- `VIRTUAL (R)`
- `VISIBLE`

W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN (R)`

- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- `YEAR`
- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)
- `ZONE`

## MySQL 8.1 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.1, compared to MySQL 8.0. Reserved keywords are marked with (R).

- `PARSE_TREE`

## MySQL 8.1 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.1, compared to MySQL 8.0. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.0-8.1.

## 7.4 Keywords and Reserved Words in MySQL 8.2

This section provides information about keywords and reserved words in MySQL 8.2.

- [MySQL 8.2 Keywords and Reserved Words](#)
- [MySQL 8.2 New Keywords and Reserved Words](#)
- [MySQL 8.2 Removed Keywords and Reserved Words](#)

## MySQL 8.2 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.2, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#)
- [ANALYZE](#) (R)
- [AND](#) (R)
- [ANY](#)
- [ARRAY](#)
- [AS](#) (R)
- [ASC](#) (R)
- [ASCII](#)
- [ASENSITIVE](#) (R)
- [AT](#)
- [ATTRIBUTE](#)

- AUTHENTICATION
- AUTOEXTEND\_SIZE
- AUTO\_INCREMENT
- AVG
- AVG\_ROW\_LENGTH

### B

- BACKUP
- BEFORE (R)
- BEGIN
- BETWEEN (R)
- BIGINT (R)
- BINARY (R)
- BINLOG
- BIT
- BLOB (R)
- BLOCK
- BOOL
- BOOLEAN
- BOTH (R)
- BTREE
- BUCKETS
- BULK
- BY (R)
- BYTE

### C

- CACHE
- CALL (R)
- CASCADE (R)
- CASCADED
- CASE (R)

- CATALOG\_NAME
- CHAIN
- CHALLENGE\_RESPONSE
- CHANGE (R)
- CHANGED
- CHANNEL
- CHAR (R)
- CHARACTER (R)
- CHARSET
- CHECK (R)
- CHECKSUM
- CIPHER
- CLASS\_ORIGIN
- CLIENT
- CLONE
- CLOSE
- COALESCE
- CODE
- COLLATE (R)
- COLLATION
- COLUMN (R)
- COLUMNS
- COLUMN\_FORMAT
- COLUMN\_NAME
- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPONENT



- COMPRESSED
- COMPRESSION
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME
- CONSTRAINT\_SCHEMA
- CONTAINS
- CONTEXT
- CONTINUE (R)
- CONVERT (R)
- CPU
- CREATE (R)
- CROSS (R)
- CUBE (R)
- CUME\_DIST (R)
- CURRENT
- CURRENT\_DATE (R)
- CURRENT\_TIME (R)
- CURRENT\_TIMESTAMP (R)
- CURRENT\_USER (R)
- CURSOR (R)
- CURSOR\_NAME

## D

- DATA
- DATABASE (R)
- DATABASES (R)

- DATAFILE
- DATE
- DATETIME
- DAY
- DAY\_HOUR (R)
- DAY\_MICROSECOND (R)
- DAY\_MINUTE (R)
- DAY\_SECOND (R)
- DEALLOCATE
- DEC (R)
- DECIMAL (R)
- DECLARE (R)
- DEFAULT (R)
- DEFAULT\_AUTH
- DEFINER
- DEFINITION
- DELAYED (R)
- DELAY\_KEY\_WRITE
- DELETE (R)
- DENSE\_RANK (R)
- DESC (R)
- DESCRIBE (R)
- DESCRIPTION
- DETERMINISTIC (R)
- DIAGNOSTICS
- DIRECTORY
- DISABLE
- DISCARD
- DISK
- DISTINCT (R)

- `DISTINCTROW (R)`

- `DIV (R)`

- `DO`

- `DOUBLE (R)`

- `DROP (R)`

- `DUAL (R)`

- `DUMPFIELD`

- `DUPLICATE`

- `DYNAMIC`

## E

- `EACH (R)`

- `ELSE (R)`

- `ELSEIF (R)`

- `EMPTY (R)`

- `ENABLE`

- `ENCLOSED (R)`

- `ENCRYPTION`

- `END`

- `ENDS`

- `ENFORCED`

- `ENGINE`

- `ENGINES`

- `ENGINE_ATTRIBUTE`

- `ENUM`

- `ERROR`

- `ERRORS`

- `ESCAPE`

- `ESCAPED (R)`

- `EVENT`

- `EVENTS`

- EVERY
- EXCEPT (R)
- EXCHANGE
- EXCLUDE
- EXECUTE
- EXISTS (R)
- EXIT (R)
- EXPANSION
- EXPIRE
- EXPLAIN (R)
- EXPORT
- EXTENDED
- EXTENT\_SIZE

## F

- FACTOR
- FAILED\_LOGIN\_ATTEMPTS
- FALSE (R)
- FAST
- FAULTS
- FETCH (R)
- FIELDS
- FILE
- FILE\_BLOCK\_SIZE
- FILTER
- FINISH
- FIRST
- FIRST\_VALUE (R)
- FIXED
- FLOAT (R)
- FLOAT4 (R)

- `FLOAT8 (R)`
- `FLUSH`
- `FOLLOWING`
- `FOLLOWS`
- `FOR (R)`
- `FORCE (R)`
- `FOREIGN (R)`
- `FORMAT`
- `FOUND`
- `FROM (R)`
- `FULL`
- `FULLTEXT (R)`
- `FUNCTION (R)`

## G

- `GENERAL`
- `GENERATE`
- `GENERATED (R)`
- `GEOMCOLLECTION`
- `GEOMETRY`
- `GEOMETRYCOLLECTION`
- `GET (R)`
- `GET_FORMAT`
- `GET_MASTER_PUBLIC_KEY`
- `GET_SOURCE_PUBLIC_KEY`
- `GLOBAL`
- `GRANT (R)`
- `GRANTS`
- `GROUP (R)`
- `GROUPING (R)`
- `GROUPS (R)`

- `GROUP_REPLICATION`

- `GTIDS`

- `GTID_ONLY`

## H

- `HANDLER`

- `HASH`

- `HAVING (R)`

- `HELP`

- `HIGH_PRIORITY (R)`

- `HISTOGRAM`

- `HISTORY`

- `HOST`

- `HOSTS`

- `HOURL`

- `HOURL_MICROSECOND (R)`

- `HOURL_MINUTE (R)`

- `HOURL_SECOND (R)`

## I

- `IDENTIFIED`

- `IF (R)`

- `IGNORE (R)`

- `IGNORE_SERVER_IDS`

- `IMPORT`

- `IN (R)`

- `INACTIVE`

- `INDEX (R)`

- `INDEXES`

- `INFILE (R)`

- `INITIAL`

- `INITIAL_SIZE`

- `INITIATE`
- `INNER (R)`
- `INOUT (R)`
- `INSENSITIVE (R)`
- `INSERT (R)`
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT (R)`
- `INT1 (R)`
- `INT2 (R)`
- `INT3 (R)`
- `INT4 (R)`
- `INT8 (R)`
- `INTEGER (R)`
- `INTERSECT (R)`
- `INTERVAL (R)`
- `INTO (R)`
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS (R)`
- `IO_BEFORE_GTIDS (R)`
- `IO_THREAD`
- `IPC`
- `IS (R)`
- `ISOLATION`
- `ISSUER`
- `ITERATE (R)`

J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

## K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

## L

- `LAG` (R)
- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINestring`
- `LIST`
- `LOAD` (R)



- LOCAL
- LOCALTIME (R)
- LOCALTIMESTAMP (R)
- LOCK (R)
- LOCKED
- LOCKS
- LOG
- LOGFILE
- LOGS
- LONG (R)
- LONGBLOB (R)
- LONGTEXT (R)
- LOOP (R)
- LOW\_PRIORITY (R)

## M

- MASTER
- MASTER\_AUTO\_POSITION
- MASTER\_BIND (R)
- MASTER\_COMPRESSION\_ALGORITHMS
- MASTER\_CONNECT\_RETRY
- MASTER\_DELAY
- MASTER\_HEARTBEAT\_PERIOD
- MASTER\_HOST
- MASTER\_LOG\_FILE
- MASTER\_LOG\_POS
- MASTER\_PASSWORD
- MASTER\_PORT
- MASTER\_PUBLIC\_KEY\_PATH
- MASTER\_RETRY\_COUNT
- MASTER\_SSL

- MASTER\_SSL\_CA
- MASTER\_SSL\_CAPATH
- MASTER\_SSL\_CERT
- MASTER\_SSL\_CIPHER
- MASTER\_SSL\_CRL
- MASTER\_SSL\_CRLPATH
- MASTER\_SSL\_KEY
- MASTER\_SSL\_VERIFY\_SERVER\_CERT (R)
- MASTER\_TLS\_CIPHERSUITES
- MASTER\_TLS\_VERSION
- MASTER\_USER
- MASTER\_ZSTD\_COMPRESSION\_LEVEL
- MATCH (R)
- MAXVALUE (R)
- MAX\_CONNECTIONS\_PER\_HOUR
- MAX\_QUERIES\_PER\_HOUR
- MAX\_ROWS
- MAX\_SIZE
- MAX\_UPDATES\_PER\_HOUR
- MAX\_USER\_CONNECTIONS
- MEDIUM
- MEDIUMBLOB (R)
- MEDIUMINT (R)
- MEDIUMTEXT (R)
- MEMBER
- MEMORY
- MERGE
- MESSAGE\_TEXT
- MICROSECOND
- MIDDLEINT (R)

- MIGRATE
- MINUTE
- MINUTE\_MICROSECOND (R)
- MINUTE\_SECOND (R)
- MIN\_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL\_ERRNO

### N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR
- NDB
- NDBCLUSTER
- NESTED
- NETWORK\_NAMESPACE
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP

- NONE
- NOT (R)
- NOWAIT
- NO\_WAIT
- NO\_WRITE\_TO\_BINLOG (R)
- NTH\_VALUE (R)
- NTILE (R)
- NULL (R)
- NULLS
- NUMBER
- NUMERIC (R)
- NVARCHAR

### O

- OF (R)
- OFF
- OFFSET
- OJ
- OLD
- ON (R)
- ONE
- ONLY
- OPEN
- OPTIMIZE (R)
- OPTIMIZER\_COSTS (R)
- OPTION (R)
- OPTIONAL
- OPTIONALLY (R)
- OPTIONS
- OR (R)
- ORDER (R)

- ORDINALITY
- ORGANIZATION
- OTHERS
- OUT (R)
- OUTER (R)
- OUTFILE (R)
- OVER (R)
- OWNER

### P

- PACK\_KEYS
- PAGE
- PARALLEL (R)
- PARSER
- PARSE\_TREE
- PARTIAL
- PARTITION (R)
- PARTITIONING
- PARTITIONS
- PASSWORD
- PASSWORD\_LOCK\_TIME
- PATH
- PERCENT\_RANK (R)
- PERSIST
- PERSIST\_ONLY
- PHASE
- PLUGIN
- PLUGINS
- PLUGIN\_DIR
- POINT
- POLYGON

- PORT
- PRECEDES
- PRECEDING
- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PRIVILEGE\_CHECKS\_USER
- PROCEDURE (R)
- PROCESS
- PROCESSLIST
- PROFILE
- PROFILES
- PROXY
- PURGE (R)

### Q

- QUARTER
- QUERY
- QUICK

### R

- RANDOM
- RANGE (R)
- RANK (R)
- READ (R)
- READS (R)
- READ\_ONLY
- READ\_WRITE (R)
- REAL (R)

- REBUILD
- RECOVER
- RECURSIVE (R)
- REDO\_BUFFER\_SIZE
- REDUNDANT
- REFERENCE
- REFERENCES (R)
- REGEXP (R)
- REGISTRATION
- RELAY
- RELAYLOG
- RELAY\_LOG\_FILE
- RELAY\_LOG\_POS
- RELAY\_THREAD
- RELEASE (R)
- RELOAD
- REMOVE
- RENAME (R)
- REORGANIZE
- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA
- REPLICAS
- REPLICATE\_DO\_DB
- REPLICATE\_DO\_TABLE
- REPLICATE\_IGNORE\_DB
- REPLICATE\_IGNORE\_TABLE
- REPLICATE\_REWRITE\_DB

- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE (R)`
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL (R)`
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT (R)`
- `RESUME`
- `RETAIN`
- `RETURN (R)`
- `RETURNED_SQLSTATE`
- `RETURNING`
- `RETURNS`
- `REUSE`
- `REVERSE`
- `REVOKE (R)`
- `RIGHT (R)`
- `RLIKE (R)`
- `ROLE`
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`
- `ROUTINE`
- `ROW (R)`
- `ROWS (R)`



- ROW\_COUNT
- ROW\_FORMAT
- ROW\_NUMBER (R)
- RTREE

### S

- S3
- SAVEPOINT
- SCHEDULE
- SCHEMA (R)
- SCHEMAS (R)
- SCHEMA\_NAME
- SECOND
- SECONDARY
- SECONDARY\_ENGINE
- SECONDARY\_ENGINE\_ATTRIBUTE
- SECONDARY\_LOAD
- SECONDARY\_UNLOAD
- SECOND\_MICROSECOND (R)
- SECURITY
- SELECT (R)
- SENSITIVE (R)
- SEPARATOR (R)
- SERIAL
- SERIALIZABLE
- SERVER
- SESSION
- SET (R)
- SHARE
- SHOW (R)
- SHUTDOWN

- `SIGNAL (R)`
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT (R)`
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`

- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION
- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SPATIAL (R)
- SPECIFIC (R)
- SQL (R)
- SQLEXCEPTION (R)
- SQLSTATE (R)
- SQLWARNING (R)
- SQL\_AFTER\_GTIDS
- SQL\_AFTER\_MTS\_GAPS
- SQL\_BEFORE\_GTIDS
- SQL\_BIG\_RESULT (R)
- SQL\_BUFFER\_RESULT
- SQL\_CALC\_FOUND\_ROWS (R)
- SQL\_NO\_CACHE
- SQL\_SMALL\_RESULT (R)
- SQL\_THREAD
- SQL\_TSI\_DAY
- SQL\_TSI\_HOUR
- SQL\_TSI\_MINUTE
- SQL\_TSI\_MONTH
- SQL\_TSI\_QUARTER
- SQL\_TSI\_SECOND

- `SQL_TSI_WEEK`
  - `SQL_TSI_YEAR`
  - `SRID`
  - `SSL (R)`
  - `STACKED`
  - `START`
  - `STARTING (R)`
  - `STARTS`
  - `STATS_AUTO_RECALC`
  - `STATS_PERSISTENT`
  - `STATS_SAMPLE_PAGES`
  - `STATUS`
  - `STOP`
  - `STORAGE`
  - `STORED (R)`
  - `STRAIGHT_JOIN (R)`
  - `STREAM`
  - `STRING`
  - `SUBCLASS_ORIGIN`
  - `SUBJECT`
  - `SUBPARTITION`
  - `SUBPARTITIONS`
  - `SUPER`
  - `SUSPEND`
  - `SWAPS`
  - `SWITCHES`
  - `SYSTEM (R)`
- T
- `TABLE (R)`
  - `TABLES`

- TABLESPACE
  - TABLE\_CHECKSUM
  - TABLE\_NAME
  - TEMPORARY
  - TEMPTABLE
  - TERMINATED (R)
  - TEXT
  - THAN
  - THEN (R)
  - THREAD\_PRIORITY
  - TIES
  - TIME
  - TIMESTAMP
  - TIMESTAMPADD
  - TIMESTAMPDIF
  - TINYBLOB (R)
  - TINYINT (R)
  - TINYTEXT (R)
  - TLS
  - TO (R)
  - TRAILING (R)
  - TRANSACTION
  - TRIGGER (R)
  - TRIGGERS
  - TRUE (R)
  - TRUNCATE
  - TYPE
  - TYPES
- U
- UNBOUNDED

- UNCOMMITTED
  - UNDEFINED
  - UNDO (R)
  - UNDOFILE
  - UNDO\_BUFFER\_SIZE
  - UNICODE
  - UNINSTALL
  - UNION (R)
  - UNIQUE (R)
  - UNKNOWN
  - UNLOCK (R)
  - UNREGISTER
  - UNSIGNED (R)
  - UNTIL
  - UPDATE (R)
  - UPGRADE
  - URL
  - USAGE (R)
  - USE (R)
  - USER
  - USER\_RESOURCES
  - USE\_FRM
  - USING (R)
  - UTC\_DATE (R)
  - UTC\_TIME (R)
  - UTC\_TIMESTAMP (R)
- V
- VALIDATION
  - VALUE
  - VALUES (R)

- `VARBINARY` (R)
- `VARCHAR` (R)
- `VARCHARACTER` (R)
- `VARIABLES`
- `VARYING` (R)
- `VCPU`
- `VIEW`
- `VIRTUAL` (R)
- `VISIBLE`

## W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

## X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

## Y

- [YEAR](#)
- [YEAR\\_MONTH](#) (R)

Z

- [ZEROFILL](#) (R)
- [ZONE](#)

## MySQL 8.2 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.2, compared to MySQL 8.1. Reserved keywords are marked with (R).

- [GTIDS](#)
- [LOG](#)
- [PARALLEL](#) (R)
- [S3](#)

## MySQL 8.2 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.2, compared to MySQL 8.1. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.1-8.2.

## 7.5 Keywords and Reserved Words in MySQL 8.3

This section provides information about keywords and reserved words in MySQL 8.3.

- [MySQL 8.3 Keywords and Reserved Words](#)
- [MySQL 8.3 New Keywords and Reserved Words](#)
- [MySQL 8.3 Removed Keywords and Reserved Words](#)

## MySQL 8.3 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.3, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)



- ADMIN
- AFTER
- AGAINST
- AGGREGATE
- ALGORITHM
- ALL (R)
- ALTER (R)
- ALWAYS
- ANALYZE (R)
- AND (R)
- ANY
- ARRAY
- AS (R)
- ASC (R)
- ASCII
- ASENSITIVE (R)
- AT
- ATTRIBUTE
- AUTHENTICATION
- AUTOEXTEND\_SIZE
- AUTO\_INCREMENT
- AVG
- AVG\_ROW\_LENGTH

### B

- BACKUP
- BEFORE (R)
- BEGIN
- BETWEEN (R)
- BIGINT (R)
- BINARY (R)

- BINLOG
- BIT
- BLOB (R)
- BLOCK
- BOOL
- BOOLEAN
- BOTH (R)
- BTREE
- BUCKETS
- BULK
- BY (R)
- BYTE

### C

- CACHE
- CALL (R)
- CASCADE (R)
- CASCADED
- CASE (R)
- CATALOG\_NAME
- CHAIN
- CHALLENGE\_RESPONSE
- CHANGE (R)
- CHANGED
- CHANNEL
- CHAR (R)
- CHARACTER (R)
- CHARSET
- CHECK (R)
- CHECKSUM
- CIPHER

- CLASS\_ORIGIN
- CLIENT
- CLONE
- CLOSE
- COALESCE
- CODE
- COLLATE (R)
- COLLATION
- COLUMN (R)
- COLUMNS
- COLUMN\_FORMAT
- COLUMN\_NAME
- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPONENT
- COMPRESSED
- COMPRESSION
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME
- CONSTRAINT\_SCHEMA
- CONTAINS
- CONTEXT

- `CONTINUE` (R)
- `CONVERT` (R)
- `CPU`
- `CREATE` (R)
- `CROSS` (R)
- `CUBE` (R)
- `CUME_DIST` (R)
- `CURRENT`
- `CURRENT_DATE` (R)
- `CURRENT_TIME` (R)
- `CURRENT_TIMESTAMP` (R)
- `CURRENT_USER` (R)
- `CURSOR` (R)
- `CURSOR_NAME`

## D

- `DATA`
- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)
- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)
- `DAY_SECOND` (R)
- `DEALLOCATE`
- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)

- `DEFAULT` (R)
  - `DEFAULT_AUTH`
  - `DEFINER`
  - `DEFINITION`
  - `DELAYED` (R)
  - `DELAY_KEY_WRITE`
  - `DELETE` (R)
  - `DENSE_RANK` (R)
  - `DESC` (R)
  - `DESCRIBE` (R)
  - `DESCRIPTION`
  - `DETERMINISTIC` (R)
  - `DIAGNOSTICS`
  - `DIRECTORY`
  - `DISABLE`
  - `DISCARD`
  - `DISK`
  - `DISTINCT` (R)
  - `DISTINCTROW` (R)
  - `DIV` (R)
  - `DO`
  - `DOUBLE` (R)
  - `DROP` (R)
  - `DUAL` (R)
  - `DUMPFIELD`
  - `DUPLICATE`
  - `DYNAMIC`
- E
- `EACH` (R)
  - `ELSE` (R)

- `ELSEIF (R)`
- `EMPTY (R)`
- `ENABLE`
- `ENCLOSED (R)`
- `ENCRYPTION`
- `END`
- `ENDS`
- `ENFORCED`
- `ENGINE`
- `ENGINES`
- `ENGINE_ATTRIBUTE`
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED (R)`
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT (R)`
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS (R)`
- `EXIT (R)`
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN (R)`
- `EXPORT`
- `EXTENDED`

- `EXTENT_SIZE`

## F

- `FACTOR`
- `FAILED_LOGIN_ATTEMPTS`
- `FALSE` (R)
- `FAST`
- `FAULTS`
- `FETCH` (R)
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`
- `FINISH`
- `FIRST`
- `FIRST_VALUE` (R)
- `FIXED`
- `FLOAT` (R)
- `FLOAT4` (R)
- `FLOAT8` (R)
- `FLUSH`
- `FOLLOWING`
- `FOLLOWS`
- `FOR` (R)
- `FORCE` (R)
- `FOREIGN` (R)
- `FORMAT`
- `FOUND`
- `FROM` (R)
- `FULL`
- `FULLTEXT` (R)

- FUNCTION (R)

## G

- GENERAL
- GENERATE
- GENERATED (R)
- GEOMCOLLECTION
- GEOMETRY
- GEOMETRYCOLLECTION
- GET (R)
- GET\_FORMAT
- GET\_MASTER\_PUBLIC\_KEY
- GET\_SOURCE\_PUBLIC\_KEY
- GLOBAL
- GRANT (R)
- GRANTS
- GROUP (R)
- GROUPING (R)
- GROUPS (R)
- GROUP\_REPLICATION
- GTIDS
- GTID\_ONLY

## H

- HANDLER
- HASH
- HAVING (R)
- HELP
- HIGH\_PRIORITY (R)
- HISTOGRAM
- HISTORY
- HOST



- HOSTS
- HOUR
- HOUR\_MICROSECOND (R)
- HOUR\_MINUTE (R)
- HOUR\_SECOND (R)
- |
- IDENTIFIED
- IF (R)
- IGNORE (R)
- IGNORE\_SERVER\_IDS
- IMPORT
- IN (R)
- INACTIVE
- INDEX (R)
- INDEXES
- INFILE (R)
- INITIAL
- INITIAL\_SIZE
- INITIATE
- INNER (R)
- INOUT (R)
- INSENSITIVE (R)
- INSERT (R)
- INSERT\_METHOD
- INSTALL
- INSTANCE
- INT (R)
- INT1 (R)
- INT2 (R)
- INT3 (R)

- `INT4` (R)
- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

## J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

## K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

## L

- `LAG` (R)

- LANGUAGE
- LAST
- LAST\_VALUE (R)
- LATERAL (R)
- LEAD (R)
- LEADING (R)
- LEAVE (R)
- LEAVES
- LEFT (R)
- LESS
- LEVEL
- LIKE (R)
- LIMIT (R)
- LINEAR (R)
- LINES (R)
- LINestring
- LIST
- LOAD (R)
- LOCAL
- LOCALTIME (R)
- LOCALTIMESTAMP (R)
- LOCK (R)
- LOCKED
- LOCKS
- LOG
- LOGFILE
- LOGS
- LONG (R)
- LONGBLOB (R)
- LONGTEXT (R)

- LOOP (R)

- LOW\_PRIORITY (R)

### M

- MASTER

- MASTER\_AUTO\_POSITION

- MASTER\_BIND (R)

- MASTER\_COMPRESSION\_ALGORITHMS

- MASTER\_CONNECT\_RETRY

- MASTER\_DELAY

- MASTER\_HEARTBEAT\_PERIOD

- MASTER\_HOST

- MASTER\_LOG\_FILE

- MASTER\_LOG\_POS

- MASTER\_PASSWORD

- MASTER\_PORT

- MASTER\_PUBLIC\_KEY\_PATH

- MASTER\_RETRY\_COUNT

- MASTER\_SSL

- MASTER\_SSL\_CA

- MASTER\_SSL\_CAPATH

- MASTER\_SSL\_CERT

- MASTER\_SSL\_CIPHER

- MASTER\_SSL\_CRL

- MASTER\_SSL\_CRLPATH

- MASTER\_SSL\_KEY

- MASTER\_SSL\_VERIFY\_SERVER\_CERT (R)

- MASTER\_TLS\_CIPHERSUITES

- MASTER\_TLS\_VERSION

- MASTER\_USER

- MASTER\_ZSTD\_COMPRESSION\_LEVEL

- `MATCH (R)`
- `MAXVALUE (R)`
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB (R)`
- `MEDIUMINT (R)`
- `MEDIUMTEXT (R)`
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT (R)`
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND (R)`
- `MINUTE_SECOND (R)`
- `MIN_ROWS`
- `MOD (R)`
- `MODE`
- `MODIFIES (R)`
- `MODIFY`
- `MONTH`
- `MULTILINESTRING`
- `MULTIPOINT`

- MULTIPOLYGON

- MUTEX

- MYSQL\_ERRNO

## N

- NAME

- NAMES

- NATIONAL

- NATURAL (R)

- NCHAR

- NDB

- NDBCLUSTER

- NESTED

- NETWORK\_NAMESPACE

- NEVER

- NEW

- NEXT

- NO

- NODEGROUP

- NONE

- NOT (R)

- NOWAIT

- NO\_WAIT

- NO\_WRITE\_TO\_BINLOG (R)

- NTH\_VALUE (R)

- NTILE (R)

- NULL (R)

- NULLS

- NUMBER

- NUMERIC (R)

- NVARCHAR

O

- `OF` (R)
- `OFF`
- `OFFSET`
- `OJ`
- `OLD`
- `ON` (R)
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE` (R)
- `OPTIMIZER_COSTS` (R)
- `OPTION` (R)
- `OPTIONAL`
- `OPTIONALLY` (R)
- `OPTIONS`
- `OR` (R)
- `ORDER` (R)
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT` (R)
- `OUTER` (R)
- `OUTFILE` (R)
- `OVER` (R)
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL` (R)

- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION (R)`
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`
- `PASSWORD_LOCK_TIME`
- `PATH`
- `PERCENT_RANK (R)`
- `PERSIST`
- `PERSIST_ONLY`
- `PHASE`
- `PLUGIN`
- `PLUGINS`
- `PLUGIN_DIR`
- `POINT`
- `POLYGON`
- `PORT`
- `PRECEDES`
- `PRECEDING`
- `PRECISION (R)`
- `PREPARE`
- `PRESERVE`
- `PREV`
- `PRIMARY (R)`
- `PRIVILEGES`
- `PRIVILEGE_CHECKS_USER`
- `PROCEDURE (R)`
- `PROCESS`



- PROCESSLIST

- PROFILE

- PROFILES

- PROXY

- PURGE (R)

Q

- QUALIFY (R)

- QUARTER

- QUERY

- QUICK

R

- RANDOM

- RANGE (R)

- RANK (R)

- READ (R)

- READS (R)

- READ\_ONLY

- READ\_WRITE (R)

- REAL (R)

- REBUILD

- RECOVER

- RECURSIVE (R)

- REDO\_BUFFER\_SIZE

- REDUNDANT

- REFERENCE

- REFERENCES (R)

- REGEXP (R)

- REGISTRATION

- RELAY

- RELAYLOG

- RELAY\_LOG\_FILE
- RELAY\_LOG\_POS
- RELAY\_THREAD
- RELEASE (R)
- RELOAD
- REMOVE
- RENAME (R)
- REORGANIZE
- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA
- REPLICAS
- REPLICATE\_DO\_DB
- REPLICATE\_DO\_TABLE
- REPLICATE\_IGNORE\_DB
- REPLICATE\_IGNORE\_TABLE
- REPLICATE\_REWRITE\_DB
- REPLICATE\_WILD\_DO\_TABLE
- REPLICATE\_WILD\_IGNORE\_TABLE
- REPLICATION
- REQUIRE (R)
- REQUIRE\_ROW\_FORMAT
- RESET
- RESIGNAL (R)
- RESOURCE
- RESPECT
- RESTART
- RESTORE

- `RESTRICT (R)`
  - `RESUME`
  - `RETAIN`
  - `RETURN (R)`
  - `RETURNED_SQLSTATE`
  - `RETURNING`
  - `RETURNS`
  - `REUSE`
  - `REVERSE`
  - `REVOKE (R)`
  - `RIGHT (R)`
  - `RLIKE (R)`
  - `ROLE`
  - `ROLLBACK`
  - `ROLLUP`
  - `ROTATE`
  - `ROUTINE`
  - `ROW (R)`
  - `ROWS (R)`
  - `ROW_COUNT`
  - `ROW_FORMAT`
  - `ROW_NUMBER (R)`
  - `RTREE`
- S**
- `S3`
  - `SAVEPOINT`
  - `SCHEDULE`
  - `SCHEMA (R)`
  - `SCHEMAS (R)`
  - `SCHEMA_NAME`

- SECOND
- SECONDARY
- SECONDARY\_ENGINE
- SECONDARY\_ENGINE\_ATTRIBUTE
- SECONDARY\_LOAD
- SECONDARY\_UNLOAD
- SECOND\_MICROSECOND (R)
- SECURITY
- SELECT (R)
- SENSITIVE (R)
- SEPARATOR (R)
- SERIAL
- SERIALIZABLE
- SERVER
- SESSION
- SET (R)
- SHARE
- SHOW (R)
- SHUTDOWN
- SIGNAL (R)
- SIGNED
- SIMPLE
- SKIP
- SLAVE
- SLOW
- SMALLINT (R)
- SNAPSHOT
- SOCKET
- SOME
- SONAME

- SOUNDS
- SOURCE
- SOURCE\_AUTO\_POSITION
- SOURCE\_BIND
- SOURCE\_COMPRESSION\_ALGORITHMS
- SOURCE\_CONNECT\_RETRY
- SOURCE\_DELAY
- SOURCE\_HEARTBEAT\_PERIOD
- SOURCE\_HOST
- SOURCE\_LOG\_FILE
- SOURCE\_LOG\_POS
- SOURCE\_PASSWORD
- SOURCE\_PORT
- SOURCE\_PUBLIC\_KEY\_PATH
- SOURCE\_RETRY\_COUNT
- SOURCE\_SSL
- SOURCE\_SSL\_CA
- SOURCE\_SSL\_CAPATH
- SOURCE\_SSL\_CERT
- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION
- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SPATIAL (R)
- SPECIFIC (R)

- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`

- STATUS
- STOP
- STORAGE
- STORED (R)
- STRAIGHT\_JOIN (R)
- STREAM
- STRING
- SUBCLASS\_ORIGIN
- SUBJECT
- SUBPARTITION
- SUBPARTITIONS
- SUPER
- SUSPEND
- SWAPS
- SWITCHES
- SYSTEM (R)

### T

- TABLE (R)
- TABLES
- TABLESPACE
- TABLE\_CHECKSUM
- TABLE\_NAME
- TEMPORARY
- TEMPTABLE
- TERMINATED (R)
- TEXT
- THAN
- THEN (R)
- THREAD\_PRIORITY
- TIES

- `TIME`
- `TIMESTAMP`
- `TIMESTAMPADD`
- `TIMESTAMPDIFF`
- `TINYBLOB (R)`
- `TINYINT (R)`
- `TINYTEXT (R)`
- `TLS`
- `TO (R)`
- `TRAILING (R)`
- `TRANSACTION`
- `TRIGGER (R)`
- `TRIGGERS`
- `TRUE (R)`
- `TRUNCATE`
- `TYPE`
- `TYPES`

## U

- `UNBOUNDED`
- `UNCOMMITTED`
- `UNDEFINED`
- `UNDO (R)`
- `UNDOFILE`
- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION (R)`
- `UNIQUE (R)`
- `UNKNOWN`
- `UNLOCK (R)`



- `UNREGISTER`
- `UNSIGNED (R)`
- `UNTIL`
- `UPDATE (R)`
- `UPGRADE`
- `URL`
- `USAGE (R)`
- `USE (R)`
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING (R)`
- `UTC_DATE (R)`
- `UTC_TIME (R)`
- `UTC_TIMESTAMP (R)`

V

- `VALIDATION`
- `VALUE`
- `VALUES (R)`
- `VARBINARY (R)`
- `VARCHAR (R)`
- `VARCHARACTER (R)`
- `VARIABLES`
- `VARYING (R)`
- `VCPU`
- `VIEW`
- `VIRTUAL (R)`
- `VISIBLE`

W

- `WAIT`

- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- `YEAR`
- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)
- `ZONE`

## MySQL 8.3 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.3, compared to MySQL 8.2. Reserved keywords are marked with (R).

- `QUALIFY` (R)

## MySQL 8.3 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.3, compared to MySQL 8.2. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.2-8.3.

## 7.6 Keywords and Reserved Words in MySQL 8.4

This section provides information about keywords and reserved words in MySQL 8.4.

- [MySQL 8.4 Keywords and Reserved Words](#)
- [MySQL 8.4 New Keywords and Reserved Words](#)
- [MySQL 8.4 Removed Keywords and Reserved Words](#)

### MySQL 8.4 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.4, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#)
- [ANALYZE](#) (R)
- [AND](#) (R)
- [ANY](#)
- [ARRAY](#)
- [AS](#) (R)
- [ASC](#) (R)

- ASCII
- ASENSITIVE (R)
- AT
- ATTRIBUTE
- AUTHENTICATION
- AUTO
- AUTOEXTEND\_SIZE
- AUTO\_INCREMENT
- AVG
- AVG\_ROW\_LENGTH

### B

- BACKUP
- BEFORE (R)
- BEGIN
- BERNOULLI
- BETWEEN (R)
- BIGINT (R)
- BINARY (R)
- BINLOG
- BIT
- BLOB (R)
- BLOCK
- BOOL
- BOOLEAN
- BOTH (R)
- BTREE
- BUCKETS
- BULK
- BY (R)
- BYTE

## C

- `CACHE`
- `CALL (R)`
- `CASCADE (R)`
- `CASCADED`
- `CASE (R)`
- `CATALOG_NAME`
- `CHAIN`
- `CHALLENGE_RESPONSE`
- `CHANGE (R)`
- `CHANGED`
- `CHANNEL`
- `CHAR (R)`
- `CHARACTER (R)`
- `CHARSET`
- `CHECK (R)`
- `CHECKSUM`
- `CIPHER`
- `CLASS_ORIGIN`
- `CLIENT`
- `CLONE`
- `CLOSE`
- `COALESCE`
- `CODE`
- `COLLATE (R)`
- `COLLATION`
- `COLUMN (R)`
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`

- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPONENT
- COMPRESSED
- COMPRESSION
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME
- CONSTRAINT\_SCHEMA
- CONTAINS
- CONTEXT
- CONTINUE (R)
- CONVERT (R)
- CPU
- CREATE (R)
- CROSS (R)
- CUBE (R)
- CUME\_DIST (R)
- CURRENT
- CURRENT\_DATE (R)
- CURRENT\_TIME (R)
- CURRENT\_TIMESTAMP (R)
- CURRENT\_USER (R)

- `CURSOR` (R)

- `CURSOR_NAME`

## D

- `DATA`

- `DATABASE` (R)

- `DATABASES` (R)

- `DATAFILE`

- `DATE`

- `DATETIME`

- `DAY`

- `DAY_HOUR` (R)

- `DAY_MICROSECOND` (R)

- `DAY_MINUTE` (R)

- `DAY_SECOND` (R)

- `DEALLOCATE`

- `DEC` (R)

- `DECIMAL` (R)

- `DECLARE` (R)

- `DEFAULT` (R)

- `DEFAULT_AUTH`

- `DEFINER`

- `DEFINITION`

- `DELAYED` (R)

- `DELAY_KEY_WRITE`

- `DELETE` (R)

- `DENSE_RANK` (R)

- `DESC` (R)

- `DESCRIBE` (R)

- `DESCRIPTION`

- `DETERMINISTIC` (R)

- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT (R)`
- `DISTINCTROW (R)`
- `DIV (R)`
- `DO`
- `DOUBLE (R)`
- `DROP (R)`
- `DUAL (R)`
- `DUMPFIL`
- `DUPLICATE`
- `DYNAMIC`

## E

- `EACH (R)`
- `ELSE (R)`
- `ELSEIF (R)`
- `EMPTY (R)`
- `ENABLE`
- `ENCLOSED (R)`
- `ENCRYPTION`
- `END`
- `ENDS`
- `ENFORCED`
- `ENGINE`
- `ENGINES`
- `ENGINE_ATTRIBUTE`
- `ENUM`



- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED (R)`
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT (R)`
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS (R)`
- `EXIT (R)`
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN (R)`
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

### F

- `FACTOR`
- `FAILED_LOGIN_ATTEMPTS`
- `FALSE (R)`
- `FAST`
- `FAULTS`
- `FETCH (R)`
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`

- FINISH
- FIRST
- FIRST\_VALUE (R)
- FIXED
- FLOAT (R)
- FLOAT4 (R)
- FLOAT8 (R)
- FLUSH
- FOLLOWING
- FOLLOWS
- FOR (R)
- FORCE (R)
- FOREIGN (R)
- FORMAT
- FOUND
- FROM (R)
- FULL
- FULLTEXT (R)
- FUNCTION (R)

## G

- GENERAL
- GENERATE
- GENERATED (R)
- GEOMCOLLECTION
- GEOMETRY
- GEOMETRYCOLLECTION
- GET (R)
- GET\_FORMAT
- GET\_SOURCE\_PUBLIC\_KEY
- GLOBAL

- GRANT (R)
- GRANTS
- GROUP (R)
- GROUPING (R)
- GROUPS (R)
- GROUP\_REPLICATION
- GTIDS
- GTID\_ONLY

## H

- HANDLER
- HASH
- HAVING (R)
- HELP
- HIGH\_PRIORITY (R)
- HISTOGRAM
- HISTORY
- HOST
- HOSTS
- HOUR
- HOUR\_MICROSECOND (R)
- HOUR\_MINUTE (R)
- HOUR\_SECOND (R)

## I

- IDENTIFIED
- IF (R)
- IGNORE (R)
- IGNORE\_SERVER\_IDS
- IMPORT
- IN (R)
- INACTIVE

- INDEX (R)
- INDEXES
- INFILE (R)
- INITIAL
- INITIAL\_SIZE
- INITIATE
- INNER (R)
- INOUT (R)
- INSENSITIVE (R)
- INSERT (R)
- INSERT\_METHOD
- INSTALL
- INSTANCE
- INT (R)
- INT1 (R)
- INT2 (R)
- INT3 (R)
- INT4 (R)
- INT8 (R)
- INTEGER (R)
- INTERSECT (R)
- INTERVAL (R)
- INTO (R)
- INVISIBLE
- INVOKER
- IO
- IO\_AFTER\_GTIDS (R)
- IO\_BEFORE\_GTIDS (R)
- IO\_THREAD
- IPC

- `IS` (R)

- `ISOLATION`

- `ISSUER`

- `ITERATE` (R)

J

- `JOIN` (R)

- `JSON`

- `JSON_TABLE` (R)

- `JSON_VALUE`

K

- `KEY` (R)

- `KEYRING`

- `KEYS` (R)

- `KEY_BLOCK_SIZE`

- `KILL` (R)

L

- `LAG` (R)

- `LANGUAGE`

- `LAST`

- `LAST_VALUE` (R)

- `LATERAL` (R)

- `LEAD` (R)

- `LEADING` (R)

- `LEAVE` (R)

- `LEAVES`

- `LEFT` (R)

- `LESS`

- `LEVEL`

- `LIKE` (R)

- `LIMIT` (R)

- `LINEAR` (R)
- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

## M

- `MANUAL` (R)
- `MASTER`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`

- MEDIUM
- MEDIUMBLOB (R)
- MEDIUMINT (R)
- MEDIUMTEXT (R)
- MEMBER
- MEMORY
- MERGE
- MESSAGE\_TEXT
- MICROSECOND
- MIDDLEINT (R)
- MIGRATE
- MINUTE
- MINUTE\_MICROSECOND (R)
- MINUTE\_SECOND (R)
- MIN\_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL\_ERRNO

## N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)

- NCHAR
- NDB
- NDBCLUSTER
- NESTED
- NETWORK\_NAMESPACE
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP
- NONE
- NOT (R)
- NOWAIT
- NO\_WAIT
- NO\_WRITE\_TO\_BINLOG (R)
- NTH\_VALUE (R)
- NTILE (R)
- NULL (R)
- NULLS
- NUMBER
- NUMERIC (R)
- NVARCHAR
- O
- OF (R)
- OFF
- OFFSET
- OJ
- OLD
- ON (R)
- ONE



- ONLY
- OPEN
- OPTIMIZE (R)
- OPTIMIZER\_COSTS (R)
- OPTION (R)
- OPTIONAL
- OPTIONALLY (R)
- OPTIONS
- OR (R)
- ORDER (R)
- ORDINALITY
- ORGANIZATION
- OTHERS
- OUT (R)
- OUTER (R)
- OUTFILE (R)
- OVER (R)
- OWNER

P

- PACK\_KEYS
- PAGE
- PARALLEL (R)
- PARSER
- PARSE\_TREE
- PARTIAL
- PARTITION (R)
- PARTITIONING
- PARTITIONS
- PASSWORD
- PASSWORD\_LOCK\_TIME

- `PATH`
  - `PERCENT_RANK (R)`
  - `PERSIST`
  - `PERSIST_ONLY`
  - `PHASE`
  - `PLUGIN`
  - `PLUGINS`
  - `PLUGIN_DIR`
  - `POINT`
  - `POLYGON`
  - `PORT`
  - `PRECEDES`
  - `PRECEDING`
  - `PRECISION (R)`
  - `PREPARE`
  - `PRESERVE`
  - `PREV`
  - `PRIMARY (R)`
  - `PRIVILEGES`
  - `PRIVILEGE_CHECKS_USER`
  - `PROCEDURE (R)`
  - `PROCESS`
  - `PROCESSLIST`
  - `PROFILE`
  - `PROFILES`
  - `PROXY`
  - `PURGE (R)`
- Q
- `QUALIFY (R)`
  - `QUARTER`

- QUERY

- QUICK

## R

- RANDOM

- RANGE (R)

- RANK (R)

- READ (R)

- READS (R)

- READ\_ONLY

- READ\_WRITE (R)

- REAL (R)

- REBUILD

- RECOVER

- RECURSIVE (R)

- REDO\_BUFFER\_SIZE

- REDUNDANT

- REFERENCE

- REFERENCES (R)

- REGEXP (R)

- REGISTRATION

- RELAY

- RELAYLOG

- RELAY\_LOG\_FILE

- RELAY\_LOG\_POS

- RELAY\_THREAD

- RELEASE (R)

- RELOAD

- REMOVE

- RENAME (R)

- REORGANIZE

- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA
- REPLICAS
- REPLICATE\_DO\_DB
- REPLICATE\_DO\_TABLE
- REPLICATE\_IGNORE\_DB
- REPLICATE\_IGNORE\_TABLE
- REPLICATE\_REWRITE\_DB
- REPLICATE\_WILD\_DO\_TABLE
- REPLICATE\_WILD\_IGNORE\_TABLE
- REPLICATION
- REQUIRE (R)
- REQUIRE\_ROW\_FORMAT
- RESET
- RESIGNAL (R)
- RESOURCE
- RESPECT
- RESTART
- RESTORE
- RESTRICT (R)
- RESUME
- RETAIN
- RETURN (R)
- RETURNED\_SQLSTATE
- RETURNING
- RETURNS
- REUSE

- REVERSE
- REVOKE (R)
- RIGHT (R)
- RLIKE (R)
- ROLE
- ROLLBACK
- ROLLUP
- ROTATE
- ROUTINE
- ROW (R)
- ROWS (R)
- ROW\_COUNT
- ROW\_FORMAT
- ROW\_NUMBER (R)
- RTREE

### S

- S3
- SAVEPOINT
- SCHEDULE
- SCHEMA (R)
- SCHEMAS (R)
- SCHEMA\_NAME
- SECOND
- SECONDARY
- SECONDARY\_ENGINE
- SECONDARY\_ENGINE\_ATTRIBUTE
- SECONDARY\_LOAD
- SECONDARY\_UNLOAD
- SECOND\_MICROSECOND (R)
- SECURITY

- `SELECT (R)`
- `SENSITIVE (R)`
- `SEPARATOR (R)`
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET (R)`
- `SHARE`
- `SHOW (R)`
- `SHUTDOWN`
- `SIGNAL (R)`
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT (R)`
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`

- SOURCE\_HOST
- SOURCE\_LOG\_FILE
- SOURCE\_LOG\_POS
- SOURCE\_PASSWORD
- SOURCE\_PORT
- SOURCE\_PUBLIC\_KEY\_PATH
- SOURCE\_RETRY\_COUNT
- SOURCE\_SSL
- SOURCE\_SSL\_CA
- SOURCE\_SSL\_CAPATH
- SOURCE\_SSL\_CERT
- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION
- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SPATIAL (R)
- SPECIFIC (R)
- SQL (R)
- SQLEXCEPTION (R)
- SQLSTATE (R)
- SQLWARNING (R)
- SQL\_AFTER\_GTIDS
- SQL\_AFTER\_MTS\_GAPS
- SQL\_BEFORE\_GTIDS
- SQL\_BIG\_RESULT (R)

- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED` (R)
- `STRAIGHT_JOIN` (R)
- `STREAM`
- `STRING`
- `SUBCLASS_ORIGIN`



- SUBJECT
- SUBPARTITION
- SUBPARTITIONS
- SUPER
- SUSPEND
- SWAPS
- SWITCHES
- SYSTEM (R)

### T

- TABLE (R)
- TABLES
- TABLESAMPLE (R)
- TABLESPACE
- TABLE\_CHECKSUM
- TABLE\_NAME
- TEMPORARY
- TEMPTABLE
- TERMINATED (R)
- TEXT
- THAN
- THEN (R)
- THREAD\_PRIORITY
- TIES
- TIME
- TIMESTAMP
- TIMESTAMPADD
- TIMESTAMPDIF
- TINYBLOB (R)
- TINYINT (R)
- TINYTEXT (R)

- TLS
- TO (R)
- TRAILING (R)
- TRANSACTION
- TRIGGER (R)
- TRIGGERS
- TRUE (R)
- TRUNCATE
- TYPE
- TYPES

## U

- UNBOUNDED
- UNCOMMITTED
- UNDEFINED
- UNDO (R)
- UNDOFILE
- UNDO\_BUFFER\_SIZE
- UNICODE
- UNINSTALL
- UNION (R)
- UNIQUE (R)
- UNKNOWN
- UNLOCK (R)
- UNREGISTER
- UNSIGNED (R)
- UNTIL
- UPDATE (R)
- UPGRADE
- URL
- USAGE (R)

- `USE (R)`
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING (R)`
- `UTC_DATE (R)`
- `UTC_TIME (R)`
- `UTC_TIMESTAMP (R)`

V

- `VALIDATION`
- `VALUE`
- `VALUES (R)`
- `VARBINARY (R)`
- `VARCHAR (R)`
- `VARCHARACTER (R)`
- `VARIABLES`
- `VARYING (R)`
- `VCPU`
- `VIEW`
- `VIRTUAL (R)`
- `VISIBLE`

W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN (R)`
- `WHERE (R)`
- `WHILE (R)`
- `WINDOW (R)`

- `WITH (R)`
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE (R)`

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR (R)`

Y

- `YEAR`
- `YEAR_MONTH (R)`

Z

- `ZEROFILL (R)`
- `ZONE`

## MySQL 8.4 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.4, compared to MySQL 8.0. Reserved keywords are marked with (R).

[A](#) | [B](#) | [G](#) | [L](#) | [M](#) | [P](#) | [Q](#) | [S](#) | [T](#)

A

- `AUTO`

B

- `BERNOULLI`

G

- `GTIDS`

L

- `LOG`

M

- [MANUAL](#) (R)

## P

- [PARALLEL](#) (R)
- [PARSE\\_TREE](#)

## Q

- [QUALIFY](#) (R)

## S

- [S3](#)

## T

- [TABLESAMPLE](#) (R)

## MySQL 8.4 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.4, compared to MySQL 8.0. Reserved keywords are marked with (R).

### G | M

#### G

- [GET\\_MASTER\\_PUBLIC\\_KEY](#)

#### M

- [MASTER\\_AUTO\\_POSITION](#)
- [MASTER\\_BIND](#) (R)
- [MASTER\\_COMPRESSION\\_ALGORITHMS](#)
- [MASTER\\_CONNECT\\_RETRY](#)
- [MASTER\\_DELAY](#)
- [MASTER\\_HEARTBEAT\\_PERIOD](#)
- [MASTER\\_HOST](#)
- [MASTER\\_LOG\\_FILE](#)
- [MASTER\\_LOG\\_POS](#)
- [MASTER\\_PASSWORD](#)
- [MASTER\\_PORT](#)
- [MASTER\\_PUBLIC\\_KEY\\_PATH](#)
- [MASTER\\_RETRY\\_COUNT](#)

- MASTER\_SSL
- MASTER\_SSL\_CA
- MASTER\_SSL\_CAPATH
- MASTER\_SSL\_CERT
- MASTER\_SSL\_CIPHER
- MASTER\_SSL\_CRL
- MASTER\_SSL\_CRLPATH
- MASTER\_SSL\_KEY
- MASTER\_SSL\_VERIFY\_SERVER\_CERT (R)
- MASTER\_TLS\_CIPHERSUITES
- MASTER\_TLS\_VERSION
- MASTER\_USER
- MASTER\_ZSTD\_COMPRESSION\_LEVEL

## 7.7 Keywords and Reserved Words in MySQL 9.0

This section provides information about keywords and reserved words in MySQL 9.0.

- [MySQL 9.0 Keywords and Reserved Words](#)
- [MySQL 9.0 New Keywords and Reserved Words](#)
- [MySQL 9.0 Removed Keywords and Reserved Words](#)

### MySQL 9.0 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 9.0, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)

- `AGAINST`
- `AGGREGATE`
- `ALGORITHM`
- `ALL (R)`
- `ALTER (R)`
- `ALWAYS`
- `ANALYZE (R)`
- `AND (R)`
- `ANY`
- `ARRAY`
- `AS (R)`
- `ASC (R)`
- `ASCII`
- `ASENSITIVE (R)`
- `AT`
- `ATTRIBUTE`
- `AUTHENTICATION`
- `AUTO`
- `AUTOEXTEND_SIZE`
- `AUTO_INCREMENT`
- `AVG`
- `AVG_ROW_LENGTH`

## **B**

- `BACKUP`
- `BEFORE (R)`
- `BEGIN`
- `BERNOULLI`
- `BETWEEN (R)`
- `BIGINT (R)`
- `BINARY (R)`

- BINLOG
- BIT
- BLOB (R)
- BLOCK
- BOOL
- BOOLEAN
- BOTH (R)
- BTREE
- BUCKETS
- BULK
- BY (R)
- BYTE

## C

- CACHE
- CALL (R)
- CASCADE (R)
- CASCADED
- CASE (R)
- CATALOG\_NAME
- CHAIN
- CHALLENGE\_RESPONSE
- CHANGE (R)
- CHANGED
- CHANNEL
- CHAR (R)
- CHARACTER (R)
- CHARSET
- CHECK (R)
- CHECKSUM
- CIPHER



- CLASS\_ORIGIN
- CLIENT
- CLONE
- CLOSE
- COALESCE
- CODE
- COLLATE (R)
- COLLATION
- COLUMN (R)
- COLUMNS
- COLUMN\_FORMAT
- COLUMN\_NAME
- COMMENT
- COMMIT
- COMMITTED
- COMPACT
- COMPLETION
- COMPONENT
- COMPRESSED
- COMPRESSION
- CONCURRENT
- CONDITION (R)
- CONNECTION
- CONSISTENT
- CONSTRAINT (R)
- CONSTRAINT\_CATALOG
- CONSTRAINT\_NAME
- CONSTRAINT\_SCHEMA
- CONTAINS
- CONTEXT

- CONTINUE (R)
- CONVERT (R)
- CPU
- CREATE (R)
- CROSS (R)
- CUBE (R)
- CUME\_DIST (R)
- CURRENT
- CURRENT\_DATE (R)
- CURRENT\_TIME (R)
- CURRENT\_TIMESTAMP (R)
- CURRENT\_USER (R)
- CURSOR (R)
- CURSOR\_NAME

## D

- DATA
- DATABASE (R)
- DATABASES (R)
- DATAFILE
- DATE
- DATETIME
- DAY
- DAY\_HOUR (R)
- DAY\_MICROSECOND (R)
- DAY\_MINUTE (R)
- DAY\_SECOND (R)
- DEALLOCATE
- DEC (R)
- DECIMAL (R)
- DECLARE (R)

- `DEFAULT` (R)
  - `DEFAULT_AUTH`
  - `DEFINER`
  - `DEFINITION`
  - `DELAYED` (R)
  - `DELAY_KEY_WRITE`
  - `DELETE` (R)
  - `DENSE_RANK` (R)
  - `DESC` (R)
  - `DESCRIBE` (R)
  - `DESCRIPTION`
  - `DETERMINISTIC` (R)
  - `DIAGNOSTICS`
  - `DIRECTORY`
  - `DISABLE`
  - `DISCARD`
  - `DISK`
  - `DISTINCT` (R)
  - `DISTINCTROW` (R)
  - `DIV` (R)
  - `DO`
  - `DOUBLE` (R)
  - `DROP` (R)
  - `DUAL` (R)
  - `DUMPFIELD`
  - `DUPLICATE`
  - `DYNAMIC`
- E
- `EACH` (R)
  - `ELSE` (R)

- `ELSEIF (R)`
- `EMPTY (R)`
- `ENABLE`
- `ENCLOSED (R)`
- `ENCRYPTION`
- `END`
- `ENDS`
- `ENFORCED`
- `ENGINE`
- `ENGINES`
- `ENGINE_ATTRIBUTE`
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED (R)`
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT (R)`
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS (R)`
- `EXIT (R)`
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN (R)`
- `EXPORT`
- `EXTENDED`

- EXTENT\_SIZE

## F

- FACTOR
- FAILED\_LOGIN\_ATTEMPTS
- FALSE (R)
- FAST
- FAULTS
- FETCH (R)
- FIELDS
- FILE
- FILE\_BLOCK\_SIZE
- FILTER
- FINISH
- FIRST
- FIRST\_VALUE (R)
- FIXED
- FLOAT (R)
- FLOAT4 (R)
- FLOAT8 (R)
- FLUSH
- FOLLOWING
- FOLLOWS
- FOR (R)
- FORCE (R)
- FOREIGN (R)
- FORMAT
- FOUND
- FROM (R)
- FULL
- FULLTEXT (R)

- FUNCTION (R)

## G

- GENERAL
- GENERATE
- GENERATED (R)
- GEOMCOLLECTION
- GEOMETRY
- GEOMETRYCOLLECTION
- GET (R)
- GET\_FORMAT
- GET\_SOURCE\_PUBLIC\_KEY
- GLOBAL
- GRANT (R)
- GRANTS
- GROUP (R)
- GROUPING (R)
- GROUPS (R)
- GROUP\_REPLICATION
- GTIDS
- GTID\_ONLY

## H

- HANDLER
- HASH
- HAVING (R)
- HELP
- HIGH\_PRIORITY (R)
- HISTOGRAM
- HISTORY
- HOST
- HOSTS

- HOUR
- HOUR\_MICROSECOND (R)
- HOUR\_MINUTE (R)
- HOUR\_SECOND (R)
- |
- IDENTIFIED
- IF (R)
- IGNORE (R)
- IGNORE\_SERVER\_IDS
- IMPORT
- IN (R)
- INACTIVE
- INDEX (R)
- INDEXES
- INFILE (R)
- INITIAL
- INITIAL\_SIZE
- INITIATE
- INNER (R)
- INOUT (R)
- INSENSITIVE (R)
- INSERT (R)
- INSERT\_METHOD
- INSTALL
- INSTANCE
- INT (R)
- INT1 (R)
- INT2 (R)
- INT3 (R)
- INT4 (R)

- `INT8 (R)`
- `INTEGER (R)`
- `INTERSECT (R)`
- `INTERVAL (R)`
- `INTO (R)`
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS (R)`
- `IO_BEFORE_GTIDS (R)`
- `IO_THREAD`
- `IPC`
- `IS (R)`
- `ISOLATION`
- `ISSUER`
- `ITERATE (R)`

## J

- `JOIN (R)`
- `JSON`
- `JSON_TABLE (R)`
- `JSON_VALUE`

## K

- `KEY (R)`
- `KEYRING`
- `KEYS (R)`
- `KEY_BLOCK_SIZE`
- `KILL (R)`

## L

- `LAG (R)`
- `LANGUAGE`



- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LOBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)

- `LOW_PRIORITY` (R)

## M

- `MANUAL` (R)
- `MASTER`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT` (R)
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND` (R)
- `MINUTE_SECOND` (R)
- `MIN_ROWS`
- `MOD` (R)
- `MODE`
- `MODIFIES` (R)

- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL\_ERRNO

### N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR
- NDB
- NDBCLUSTER
- NESTED
- NETWORK\_NAMESPACE
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP
- NONE
- NOT (R)
- NOWAIT
- NO\_WAIT
- NO\_WRITE\_TO\_BINLOG (R)
- NTH\_VALUE (R)
- NTILE (R)
- NULL (R)

- `NULLS`
- `NUMBER`
- `NUMERIC (R)`
- `NVARCHAR`
- O**
- `OF (R)`
- `OFF`
- `OFFSET`
- `OJ`
- `OLD`
- `ON (R)`
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE (R)`
- `OPTIMIZER_COSTS (R)`
- `OPTION (R)`
- `OPTIONAL`
- `OPTIONALLY (R)`
- `OPTIONS`
- `OR (R)`
- `ORDER (R)`
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT (R)`
- `OUTER (R)`
- `OUTFILE (R)`
- `OVER (R)`
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL (R)`
- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION (R)`
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`
- `PASSWORD_LOCK_TIME`
- `PATH`
- `PERCENT_RANK (R)`
- `PERSIST`
- `PERSIST_ONLY`
- `PHASE`
- `PLUGIN`
- `PLUGINS`
- `PLUGIN_DIR`
- `POINT`
- `POLYGON`
- `PORT`
- `PRECEDES`
- `PRECEDING`
- `PRECISION (R)`
- `PREPARE`
- `PRESERVE`
- `PREV`
- `PRIMARY (R)`

- PRIVILEGES
- PRIVILEGE\_CHECKS\_USER
- PROCEDURE (R)
- PROCESS
- PROCESSLIST
- PROFILE
- PROFILES
- PROXY
- PURGE (R)

## Q

- QUALIFY (R)
- QUARTER
- QUERY
- QUICK

## R

- RANDOM
- RANGE (R)
- RANK (R)
- READ (R)
- READS (R)
- READ\_ONLY
- READ\_WRITE (R)
- REAL (R)
- REBUILD
- RECOVER
- RECURSIVE (R)
- REDO\_BUFFER\_SIZE
- REDUNDANT
- REFERENCE
- REFERENCES (R)

- REGEXP (R)
- REGISTRATION
- RELAY
- RELAYLOG
- RELAY\_LOG\_FILE
- RELAY\_LOG\_POS
- RELAY\_THREAD
- RELEASE (R)
- RELOAD
- REMOVE
- RENAME (R)
- REORGANIZE
- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA
- REPLICAS
- REPLICATE\_DO\_DB
- REPLICATE\_DO\_TABLE
- REPLICATE\_IGNORE\_DB
- REPLICATE\_IGNORE\_TABLE
- REPLICATE\_REWRITE\_DB
- REPLICATE\_WILD\_DO\_TABLE
- REPLICATE\_WILD\_IGNORE\_TABLE
- REPLICATION
- REQUIRE (R)
- REQUIRE\_ROW\_FORMAT
- RESET
- RESIGNAL (R)

- RESOURCE
  - RESPECT
  - RESTART
  - RESTORE
  - RESTRICT (R)
  - RESUME
  - RETAIN
  - RETURN (R)
  - RETURNED\_SQLSTATE
  - RETURNING
  - RETURNS
  - REUSE
  - REVERSE
  - REVOKE (R)
  - RIGHT (R)
  - RLIKE (R)
  - ROLE
  - ROLLBACK
  - ROLLUP
  - ROTATE
  - ROUTINE
  - ROW (R)
  - ROWS (R)
  - ROW\_COUNT
  - ROW\_FORMAT
  - ROW\_NUMBER (R)
  - RTREE
- S**
- S3
  - SAVEPOINT



- SCHEDULE
- SCHEMA (R)
- SCHEMAS (R)
- SCHEMA\_NAME
- SECOND
- SECONDARY
- SECONDARY\_ENGINE
- SECONDARY\_ENGINE\_ATTRIBUTE
- SECONDARY\_LOAD
- SECONDARY\_UNLOAD
- SECOND\_MICROSECOND (R)
- SECURITY
- SELECT (R)
- SENSITIVE (R)
- SEPARATOR (R)
- SERIAL
- SERIALIZABLE
- SERVER
- SESSION
- SET (R)
- SHARE
- SHOW (R)
- SHUTDOWN
- SIGNAL (R)
- SIGNED
- SIMPLE
- SKIP
- SLAVE
- SLOW
- SMALLINT (R)

- SNAPSHOT
- SOCKET
- SOME
- SONAME
- SOUNDS
- SOURCE
- SOURCE\_AUTO\_POSITION
- SOURCE\_BIND
- SOURCE\_COMPRESSION\_ALGORITHMS
- SOURCE\_CONNECT\_RETRY
- SOURCE\_DELAY
- SOURCE\_HEARTBEAT\_PERIOD
- SOURCE\_HOST
- SOURCE\_LOG\_FILE
- SOURCE\_LOG\_POS
- SOURCE\_PASSWORD
- SOURCE\_PORT
- SOURCE\_PUBLIC\_KEY\_PATH
- SOURCE\_RETRY\_COUNT
- SOURCE\_SSL
- SOURCE\_SSL\_CA
- SOURCE\_SSL\_CAPATH
- SOURCE\_SSL\_CERT
- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION

- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SPATIAL (R)
- SPECIFIC (R)
- SQL (R)
- SQLEXCEPTION (R)
- SQLSTATE (R)
- SQLWARNING (R)
- SQL\_AFTER\_GTIDS
- SQL\_AFTER\_MTS\_GAPS
- SQL\_BEFORE\_GTIDS
- SQL\_BIG\_RESULT (R)
- SQL\_BUFFER\_RESULT
- SQL\_CALC\_FOUND\_ROWS (R)
- SQL\_NO\_CACHE
- SQL\_SMALL\_RESULT (R)
- SQL\_THREAD
- SQL\_TSI\_DAY
- SQL\_TSI\_HOUR
- SQL\_TSI\_MINUTE
- SQL\_TSI\_MONTH
- SQL\_TSI\_QUARTER
- SQL\_TSI\_SECOND
- SQL\_TSI\_WEEK
- SQL\_TSI\_YEAR
- SRID
- SSL (R)
- STACKED
- START
- STARTING (R)

- STARTS
- STATS\_AUTO\_RECALC
- STATS\_PERSISTENT
- STATS\_SAMPLE\_PAGES
- STATUS
- STOP
- STORAGE
- STORED (R)
- STRAIGHT\_JOIN (R)
- STREAM
- STRING
- SUBCLASS\_ORIGIN
- SUBJECT
- SUBPARTITION
- SUBPARTITIONS
- SUPER
- SUSPEND
- SWAPS
- SWITCHES
- SYSTEM (R)

T

- TABLE (R)
- TABLES
- TABLESAMPLE (R)
- TABLESPACE
- TABLE\_CHECKSUM
- TABLE\_NAME
- TEMPORARY
- TEMPTABLE
- TERMINATED (R)

- TEXT
  - THAN
  - THEN (R)
  - THREAD\_PRIORITY
  - TIES
  - TIME
  - TIMESTAMP
  - TIMESTAMPADD
  - TIMESTAMPDIF
  - TINYBLOB (R)
  - TINYINT (R)
  - TINYTEXT (R)
  - TLS
  - TO (R)
  - TRAILING (R)
  - TRANSACTION
  - TRIGGER (R)
  - TRIGGERS
  - TRUE (R)
  - TRUNCATE
  - TYPE
  - TYPES
- U
- UNBOUNDED
  - UNCOMMITTED
  - UNDEFINED
  - UNDO (R)
  - UNDOFILE
  - UNDO\_BUFFER\_SIZE
  - UNICODE

- `UNINSTALL`
- `UNION (R)`
- `UNIQUE (R)`
- `UNKNOWN`
- `UNLOCK (R)`
- `UNREGISTER`
- `UNSIGNED (R)`
- `UNTIL`
- `UPDATE (R)`
- `UPGRADE`
- `URL`
- `USAGE (R)`
- `USE (R)`
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING (R)`
- `UTC_DATE (R)`
- `UTC_TIME (R)`
- `UTC_TIMESTAMP (R)`

V

- `VALIDATION`
- `VALUE`
- `VALUES (R)`
- `VARBINARY (R)`
- `VARCHAR (R)`
- `VARCHARACTER (R)`
- `VARIABLES`
- `VARYING (R)`
- `VCPU`

- VECTOR
- VIEW
- VIRTUAL (R)
- VISIBLE

## W

- WAIT
- WARNINGS
- WEEK
- WEIGHT\_STRING
- WHEN (R)
- WHERE (R)
- WHILE (R)
- WINDOW (R)
- WITH (R)
- WITHOUT
- WORK
- WRAPPER
- WRITE (R)

## X

- X509
- XA
- XID
- XML
- XOR (R)

## Y

- YEAR
- YEAR\_MONTH (R)

## Z

- ZEROFILL (R)
- ZONE

---

## MySQL 9.0 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 9.0, compared to MySQL 8.4. Reserved keywords are marked with (R).

- [VECTOR](#)

## MySQL 9.0 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 9.0, compared to MySQL 8.4. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.4-9.0.

## 7.8 Keywords and Reserved Words in MySQL 9.1

This section provides information about keywords and reserved words in MySQL 9.1.

- [MySQL 9.1 Keywords and Reserved Words](#)
- [MySQL 9.1 New Keywords and Reserved Words](#)
- [MySQL 9.1 Removed Keywords and Reserved Words](#)

## MySQL 9.1 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 9.1, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#)



- `ANALYZE` (R)
- `AND` (R)
- `ANY`
- `ARRAY`
- `AS` (R)
- `ASC` (R)
- `ASCII`
- `ASENSITIVE` (R)
- `AT`
- `ATTRIBUTE`
- `AUTHENTICATION`
- `AUTO`
- `AUTOEXTEND_SIZE`
- `AUTO_INCREMENT`
- `AVG`
- `AVG_ROW_LENGTH`

## B

- `BACKUP`
- `BEFORE` (R)
- `BEGIN`
- `BERNOULLI`
- `BETWEEN` (R)
- `BIGINT` (R)
- `BINARY` (R)
- `BINLOG`
- `BIT`
- `BLOB` (R)
- `BLOCK`
- `BOOL`
- `BOOLEAN`

- BOTH (R)
- BTREE
- BUCKETS
- BULK
- BY (R)
- BYTE

## C

- CACHE
- CALL (R)
- CASCADE (R)
- CASCADED
- CASE (R)
- CATALOG\_NAME
- CHAIN
- CHALLENGE\_RESPONSE
- CHANGE (R)
- CHANGED
- CHANNEL
- CHAR (R)
- CHARACTER (R)
- CHARSET
- CHECK (R)
- CHECKSUM
- CIPHER
- CLASS\_ORIGIN
- CLIENT
- CLONE
- CLOSE
- COALESCE
- CODE

- `COLLATE (R)`
- `COLLATION`
- `COLUMN (R)`
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`
- `CONCURRENT`
- `CONDITION (R)`
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT (R)`
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE (R)`
- `CONVERT (R)`
- `CPU`
- `CREATE (R)`
- `CROSS (R)`
- `CUBE (R)`

- CUME\_DIST (R)
- CURRENT
- CURRENT\_DATE (R)
- CURRENT\_TIME (R)
- CURRENT\_TIMESTAMP (R)
- CURRENT\_USER (R)
- CURSOR (R)
- CURSOR\_NAME

## D

- DATA
- DATABASE (R)
- DATABASES (R)
- DATAFILE
- DATE
- DATETIME
- DAY
- DAY\_HOUR (R)
- DAY\_MICROSECOND (R)
- DAY\_MINUTE (R)
- DAY\_SECOND (R)
- DEALLOCATE
- DEC (R)
- DECIMAL (R)
- DECLARE (R)
- DEFAULT (R)
- DEFAULT\_AUTH
- DEFINER
- DEFINITION
- DELAYED (R)
- DELAY\_KEY\_WRITE

- `DELETE` (R)
- `DENSE_RANK` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT` (R)
- `DISTINCTROW` (R)
- `DIV` (R)
- `DO`
- `DOUBLE` (R)
- `DROP` (R)
- `DUAL` (R)
- `DUMPFIELD`
- `DUPLICATE`
- `DYNAMIC`

## E

- `EACH` (R)
- `ELSE` (R)
- `ELSEIF` (R)
- `EMPTY` (R)
- `ENABLE`
- `ENCLOSED` (R)
- `ENCRYPTION`
- `END`

- ENDS
- ENFORCED
- ENGINE
- ENGINES
- ENGINE\_ATTRIBUTE
- ENUM
- ERROR
- ERRORS
- ESCAPE
- ESCAPED (R)
- EVENT
- EVENTS
- EVERY
- EXCEPT (R)
- EXCHANGE
- EXCLUDE
- EXECUTE
- EXISTS (R)
- EXIT (R)
- EXPANSION
- EXPIRE
- EXPLAIN (R)
- EXPORT
- EXTENDED
- EXTENT\_SIZE

### F

- FACTOR
- FAILED\_LOGIN\_ATTEMPTS
- FALSE (R)
- FAST

- `FAULTS`
- `FETCH (R)`
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`
- `FINISH`
- `FIRST`
- `FIRST_VALUE (R)`
- `FIXED`
- `FLOAT (R)`
- `FLOAT4 (R)`
- `FLOAT8 (R)`
- `FLUSH`
- `FOLLOWING`
- `FOLLOWS`
- `FOR (R)`
- `FORCE (R)`
- `FOREIGN (R)`
- `FORMAT`
- `FOUND`
- `FROM (R)`
- `FULL`
- `FULLTEXT (R)`
- `FUNCTION (R)`

## G

- `GENERAL`
- `GENERATE`
- `GENERATED (R)`
- `GEOMCOLLECTION`

- GEOMETRY
- GEOMETRYCOLLECTION
- GET (R)
- GET\_FORMAT
- GET\_SOURCE\_PUBLIC\_KEY
- GLOBAL
- GRANT (R)
- GRANTS
- GROUP (R)
- GROUPING (R)
- GROUPS (R)
- GROUP\_REPLICATION
- GTIDS
- GTID\_ONLY

## H

- HANDLER
- HASH
- HAVING (R)
- HELP
- HIGH\_PRIORITY (R)
- HISTOGRAM
- HISTORY
- HOST
- HOSTS
- HOUR
- HOUR\_MICROSECOND (R)
- HOUR\_MINUTE (R)
- HOUR\_SECOND (R)

## I

- IDENTIFIED



- `IF (R)`
- `IGNORE (R)`
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN (R)`
- `INACTIVE`
- `INDEX (R)`
- `INDEXES`
- `INFILE (R)`
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER (R)`
- `INOUT (R)`
- `INSENSITIVE (R)`
- `INSERT (R)`
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT (R)`
- `INT1 (R)`
- `INT2 (R)`
- `INT3 (R)`
- `INT4 (R)`
- `INT8 (R)`
- `INTEGER (R)`
- `INTERSECT (R)`
- `INTERVAL (R)`
- `INTO (R)`
- `INVISIBLE`

- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS (R)`
- `IO_BEFORE_GTIDS (R)`
- `IO_THREAD`
- `IPC`
- `IS (R)`
- `ISOLATION`
- `ISSUER`
- `ITERATE (R)`

## J

- `JOIN (R)`
- `JSON`
- `JSON_TABLE (R)`
- `JSON_VALUE`

## K

- `KEY (R)`
- `KEYRING`
- `KEYS (R)`
- `KEY_BLOCK_SIZE`
- `KILL (R)`

## L

- `LAG (R)`
- `LANGUAGE`
- `LAST`
- `LAST_VALUE (R)`
- `LATERAL (R)`
- `LEAD (R)`
- `LEADING (R)`
- `LEAVE (R)`

- LEAVES
- LEFT (R)
- LESS
- LEVEL
- LIKE (R)
- LIMIT (R)
- LINEAR (R)
- LINES (R)
- LINESTRING
- LIST
- LOAD (R)
- LOCAL
- LOCALTIME (R)
- LOCALTIMESTAMP (R)
- LOCK (R)
- LOCKED
- LOCKS
- LOG
- LOGFILE
- LOGS
- LONG (R)
- LONGBLOB (R)
- LONGTEXT (R)
- LOOP (R)
- LOW\_PRIORITY (R)

## M

- MANUAL (R)
- MASTER
- MATCH (R)
- MAXVALUE (R)

- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB (R)`
- `MEDIUMINT (R)`
- `MEDIUMTEXT (R)`
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT (R)`
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND (R)`
- `MINUTE_SECOND (R)`
- `MIN_ROWS`
- `MOD (R)`
- `MODE`
- `MODIFIES (R)`
- `MODIFY`
- `MONTH`
- `MULTILINESTRING`
- `MULTIPOINT`
- `MULTIPOLYGON`
- `MUTEX`

- `MYSQL_ERRNO`

## N

- `NAME`
- `NAMES`
- `NATIONAL`
- `NATURAL (R)`
- `NCHAR`
- `NDB`
- `NDBCLUSTER`
- `NESTED`
- `NETWORK_NAMESPACE`
- `NEVER`
- `NEW`
- `NEXT`
- `NO`
- `NODEGROUP`
- `NONE`
- `NOT (R)`
- `NOWAIT`
- `NO_WAIT`
- `NO_WRITE_TO_BINLOG (R)`
- `NTH_VALUE (R)`
- `NTILE (R)`
- `NULL (R)`
- `NULLS`
- `NUMBER`
- `NUMERIC (R)`
- `NVARCHAR`

## O

- `OF (R)`

- OFF
- OFFSET
- OJ
- OLD
- ON (R)
- ONE
- ONLY
- OPEN
- OPTIMIZE (R)
- OPTIMIZER\_COSTS (R)
- OPTION (R)
- OPTIONAL
- OPTIONALLY (R)
- OPTIONS
- OR (R)
- ORDER (R)
- ORDINALITY
- ORGANIZATION
- OTHERS
- OUT (R)
- OUTER (R)
- OUTFILE (R)
- OVER (R)
- OWNER

P

- PACK\_KEYS
- PAGE
- PARALLEL (R)
- PARSER
- PARSE\_TREE

- PARTIAL
- PARTITION (R)
- PARTITIONING
- PARTITIONS
- PASSWORD
- PASSWORD\_LOCK\_TIME
- PATH
- PERCENT\_RANK (R)
- PERSIST
- PERSIST\_ONLY
- PHASE
- PLUGIN
- PLUGINS
- PLUGIN\_DIR
- POINT
- POLYGON
- PORT
- PRECEDES
- PRECEDING
- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PRIVILEGE\_CHECKS\_USER
- PROCEDURE (R)
- PROCESS
- PROCESSLIST
- PROFILE

- `PROFILES`

- `PROXY`

- `PURGE (R)`

## Q

- `QUALIFY (R)`

- `QUARTER`

- `QUERY`

- `QUICK`

## R

- `RANDOM`

- `RANGE (R)`

- `RANK (R)`

- `READ (R)`

- `READS (R)`

- `READ_ONLY`

- `READ_WRITE (R)`

- `REAL (R)`

- `REBUILD`

- `RECOVER`

- `RECURSIVE (R)`

- `REDO_BUFFER_SIZE`

- `REDUNDANT`

- `REFERENCE`

- `REFERENCES (R)`

- `REGEXP (R)`

- `REGISTRATION`

- `RELAY`

- `RELAYLOG`

- `RELAY_LOG_FILE`

- `RELAY_LOG_POS`



- RELAY\_THREAD
- RELEASE (R)
- RELOAD
- REMOVE
- RENAME (R)
- REORGANIZE
- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA
- REPLICAS
- REPLICATE\_DO\_DB
- REPLICATE\_DO\_TABLE
- REPLICATE\_IGNORE\_DB
- REPLICATE\_IGNORE\_TABLE
- REPLICATE\_REWRITE\_DB
- REPLICATE\_WILD\_DO\_TABLE
- REPLICATE\_WILD\_IGNORE\_TABLE
- REPLICATION
- REQUIRE (R)
- REQUIRE\_ROW\_FORMAT
- RESET
- RESIGNAL (R)
- RESOURCE
- RESPECT
- RESTART
- RESTORE
- RESTRICT (R)
- RESUME

- RETAIN
- RETURN (R)
- RETURNED\_SQLSTATE
- RETURNING
- RETURNS
- REUSE
- REVERSE
- REVOKE (R)
- RIGHT (R)
- RLIKE (R)
- ROLE
- ROLLBACK
- ROLLUP
- ROTATE
- ROUTINE
- ROW (R)
- ROWS (R)
- ROW\_COUNT
- ROW\_FORMAT
- ROW\_NUMBER (R)
- RTREE

### S

- S3
- SAVEPOINT
- SCHEDULE
- SCHEMA (R)
- SCHEMAS (R)
- SCHEMA\_NAME
- SECOND
- SECONDARY

- `SECONDARY_ENGINE`
- `SECONDARY_ENGINE_ATTRIBUTE`
- `SECONDARY_LOAD`
- `SECONDARY_UNLOAD`
- `SECOND_MICROSECOND (R)`
- `SECURITY`
- `SELECT (R)`
- `SENSITIVE (R)`
- `SEPARATOR (R)`
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET (R)`
- `SHARE`
- `SHOW (R)`
- `SHUTDOWN`
- `SIGNAL (R)`
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT (R)`
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`

- SOURCE\_AUTO\_POSITION
- SOURCE\_BIND
- SOURCE\_COMPRESSION\_ALGORITHMS
- SOURCE\_CONNECT\_RETRY
- SOURCE\_DELAY
- SOURCE\_HEARTBEAT\_PERIOD
- SOURCE\_HOST
- SOURCE\_LOG\_FILE
- SOURCE\_LOG\_POS
- SOURCE\_PASSWORD
- SOURCE\_PORT
- SOURCE\_PUBLIC\_KEY\_PATH
- SOURCE\_RETRY\_COUNT
- SOURCE\_SSL
- SOURCE\_SSL\_CA
- SOURCE\_SSL\_CAPATH
- SOURCE\_SSL\_CERT
- SOURCE\_SSL\_CIPHER
- SOURCE\_SSL\_CRL
- SOURCE\_SSL\_CRLPATH
- SOURCE\_SSL\_KEY
- SOURCE\_SSL\_VERIFY\_SERVER\_CERT
- SOURCE\_TLS\_CIPHERSUITES
- SOURCE\_TLS\_VERSION
- SOURCE\_USER
- SOURCE\_ZSTD\_COMPRESSION\_LEVEL
- SPATIAL (R)
- SPECIFIC (R)
- SQL (R)
- SQLEXCEPTION (R)

- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`

- STORAGE
- STORED (R)
- STRAIGHT\_JOIN (R)
- STREAM
- STRING
- SUBCLASS\_ORIGIN
- SUBJECT
- SUBPARTITION
- SUBPARTITIONS
- SUPER
- SUSPEND
- SWAPS
- SWITCHES
- SYSTEM (R)

T

- TABLE (R)
- TABLES
- TABLESAMPLE (R)
- TABLESPACE
- TABLE\_CHECKSUM
- TABLE\_NAME
- TEMPORARY
- TEMPTABLE
- TERMINATED (R)
- TEXT
- THAN
- THEN (R)
- THREAD\_PRIORITY
- TIES
- TIME

- `TIMESTAMP`
- `TIMESTAMPADD`
- `TIMESTAMPDIFF`
- `TINYBLOB (R)`
- `TINYINT (R)`
- `TINYTEXT (R)`
- `TLS`
- `TO (R)`
- `TRAILING (R)`
- `TRANSACTION`
- `TRIGGER (R)`
- `TRIGGERS`
- `TRUE (R)`
- `TRUNCATE`
- `TYPE`
- `TYPES`

### U

- `UNBOUNDED`
- `UNCOMMITTED`
- `UNDEFINED`
- `UNDO (R)`
- `UNDOFILE`
- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION (R)`
- `UNIQUE (R)`
- `UNKNOWN`
- `UNLOCK (R)`
- `UNREGISTER`

- UNSIGNED (R)
- UNTIL
- UPDATE (R)
- UPGRADE
- URL
- USAGE (R)
- USE (R)
- USER
- USER\_RESOURCES
- USE\_FRM
- USING (R)
- UTC\_DATE (R)
- UTC\_TIME (R)
- UTC\_TIMESTAMP (R)

V

- VALIDATION
- VALUE
- VALUES (R)
- VARBINARY (R)
- VARCHAR (R)
- VARCHARACTER (R)
- VARIABLES
- VARYING (R)
- VCPU
- VECTOR
- VIEW
- VIRTUAL (R)
- VISIBLE

W

- WAIT



- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- `YEAR`
- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)
- `ZONE`

## MySQL 9.1 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 9.1, compared to MySQL 9.0. Reserved keywords are marked with (R).

There are no keywords added between MySQL 9.0-9.1.

## MySQL 9.1 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 9.1, compared to MySQL 9.0. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 9.0-9.1.

## Chapter 8 Build (Configuration) Options

The following table details the [CMake](#) configuration options available when building MySQL Server from source. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- **Yes:** The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- **Some:** The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- **Blank:** The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

**Table 8.1 CMake Option Reference**

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
<a href="#">ADD_GDB_PLUGIN</a>	8.0.18			Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">BUILD_CONFIG</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">BUNDLE_DYNAMIC_LIBRARIES</a>	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CMAKE_BUILD_TYPE</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CMAKE_CXX_FLAGS</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CMAKE_C_FLAGS</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CMAKE_INSTALL_PREFIX</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COMPILATION_COMMENT</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COMPILATION_COMMENT_SERVER</a>	8.0.14			Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">COMPRESS_DEBUG_SECTIONS</a>	8.0.22			Some	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">CPACK_MONOLITHIC_INSTALL</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">DEFAULT_CHARSET</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">DEFAULT_COLLATION</a>			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">DISABLE_PERFSHEMA</a>										Yes
<a href="#">DISABLE_PSI_COND</a>	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">DISABLE_PSI_DATA_LOCK</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes
<a href="#">DISABLE_PSI_ERROR</a>				Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
DISABLE_573_FILE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_IDLE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_MEMORY	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_METADATA	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_Mutex	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_PS	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_RWLOCK	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_SOCKET	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_SP	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_STAGE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_STATEMENT	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_STATEMENT_UGEST	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_TABLE	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_THREAD	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_573_TRANSACTION	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_SHARED	8.0.18			Some						
DOWNLOAD_575_HOST	5.7.5		Yes	Yes	Yes	Yes				
DOWNLOAD_576_HOST_TIMEOUT	5.7.6		Yes	Yes	Yes	Yes				
ENABLED_LOCAL_INFILE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLED_PROFILING			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLE_DEBUG_SYMBOLS	5.7.1, 8.0.1									
ENABLE_DOWNLOADS	8.0.26		Yes	Some						
ENABLE_DTRACE	8.0.1		Yes							
ENABLE_EXPERIMENTAL_SYSVARS	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLE_GCOV			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLE_GPROF			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORCE_CLOSE_STD_OUTPUT	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
FORCE_INSTALL_BUILD	8.0.14			Some	Yes	Yes	Yes	Yes	Yes	Yes
FORCE_UNSUPPORTED_COMPILER	5.7.5		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FPROFILE_GENERATE	8.0.19			Some	Yes	Yes	Yes	Yes	Yes	Yes
FPROFILE	8.0.19			Some	Yes	Yes	Yes	Yes	Yes	Yes
HAVE_PSLIBRARY_INTERFACE	8.0.26			Some	Yes	Yes	Yes	Yes	Yes	Yes
IGNORE_AIO_CHECK			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_ASYNC_AWAIT_REF_COUNT	5.7.4 5.7.5									
INSTALL_BINDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_DOCDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_DOCREADMEDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
INSTALL_INCLUDEDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_INFODIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_LAYOUT			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_LIBDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_MANDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_MYSQLKEYRINGDIR	5.7.11		Some	Yes	Yes	Yes	Yes			
INSTALL_MYSQLSHAREDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_MYSQLTESTDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_MYSQLCONFIGDIR	5.7.9		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_PLUGINDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SBINDIR	8.0.18			Some	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SCRIPTDIR			Yes							
INSTALL_SECURE_FILE_PREFIXDIR	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SECURE_FILE_PREFIXEMBEDDEDIR	5.7.8		Yes							
INSTALL_SHAREDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SQLBENCHDIR	5.7.8									
INSTALL_STATIC_LIBRARIES				Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SUPPORTFILESDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LINK_RANDIR	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes
LINK_RANDIR_SEED	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_INDEXES	5.7.4		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEMCACHED_HOME	5.7.33, 8.0.23		Some	Some						
MSVC_CRTDIR	8.0.33			Some	Yes	Yes	Yes	Yes	Yes	Yes
MUTEX_TIMEOUT	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQLX_SUPPORT	5.7.17		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQLX_UNIX_ADDR	5.7.15		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_DATADIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_MAINTAINER_MODE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_PROJECT_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_TCP_PORT			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_UNIX_ADDR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NDB_UTIL_LINK_DYNAMIC	8.0.22			Some	Yes	Yes	Yes	Yes	Yes	Yes
ODBC_INCLUDES			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ODBC_LIB_DIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMIZER_TRACE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMIZER_BUILDS	8.0.34			Some	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
REPRODUCE_BUILD	5.7.19, 8.0.11		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHOW_UNUSED_COMPILER_WARNINGS	8.0.30		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUNPRO_LIB	5.7.5		Yes							
SYSCONFDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSTEMD_PLD_DIR	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSTEMD_SERVICE_NAME	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TMPDIR	5.7.4		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USE_LD_GOLD		8.0.31		Some						
USE_LD_LIB	8.0.16			Some	Yes	Yes				
WIN_DEBUG_NO_INLINE	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITHOUT_SERVER			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITHOUT_XXX_STORAGE_ENGINE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ANDROID	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ASAN	5.7.3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ASAN_COV	5.7.21, 8.0.4		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION_CLIENT_PLUGINS	8.0.26		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION_LDAP	5.7.19, 8.0.2		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION_PAM			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AWAY	5.7.19, 8.0.2		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_BOOST	5.7.5		Yes	Yes	Yes	Yes				
WITH_BUILDID	8.0.31			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_BUNDLED_LIBS	5.7.33, 8.0.23		Some	Some						
WITH_BUNDLED_MYSQL_HEADERS	5.7.33, 8.0.23		Some	Some						
WITH_CLASSPATH			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_CLIENT_PROTOCOL_TROUBLESHOOTING	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_CURL	5.7.19, 8.0.2		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_DEBUG			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_DEFAULT_COMPILER_OPTIONS			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_DEFAULT_FILE_SIZE	8.0.22		Yes	Some						
WITH_DEFAULT_SERVER_ENTITLEMENTS	8.0.30		Some	Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_EDLINE	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_EMBEDDED_SERVER			Yes							
WITH_EMBEDDED_SHARED_LIBRARY	5.7.4		Yes							

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
WITH_ERROR_INSERT			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_EXTRA_CHARSETS			Yes							
WITH_FILE	8.0.27			Some	Yes	Yes	Yes			
WITH_GMOCK		8.0.26	Yes	Some						
WITH_IC	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_INNODB_EXTRA_DEBUG	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_INNODB_MEMCACHED			Yes	Yes	Yes	Yes				
WITH_JEMALLOC	8.0.16			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_KEYRING_TEST	5.7.11		Some	Yes	Yes	Yes	Yes			
WITH_LD							Yes	Yes	Yes	Yes
WITH_LDFLAGS	5.7.29		Some							
WITH_LIBEVENT			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LIBWRAP			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LOCAL_INORDER	8.0.17			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LSN	8.0.16			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LTO	8.0.13			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LZ4	5.7.14		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LZ4HC	8.0.4	8.0.16		Some						
WITH_MERGEDB	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_MSRAND	5.7.4		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_MSRAND_DEBUG	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_MYSQL	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB	8.0.31			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBAPI_EXAMPLES			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBCLUSTER			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBCLUSTER_STORAGE_ENGINE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBMTD			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_BINLOG			Yes							
WITH_NDB_DEBUG			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_JAVA			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_PORT			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_TEST			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_TLS_SEARCH_PATH							Yes	Yes	Yes	Yes
WITH_NUMA	5.7.17		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_PARTITION_FLAGS	8.0.26			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_PLUGIN_NDBCLUSTER	8.0.13	8.0.31		Some						
WITH_PROFILING	5.7.12		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_RAID	5.7.12		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1
WITH_RAII	8.0.13			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_READLINE	8.0.4	8.0.18		Some						
WITH_RUNTIME	8.0.16			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SASL	5.7.29		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SHOW_PARSE_TREE					Yes	Yes	Yes	Yes	Yes	Yes
WITH_SSL			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SYSTEMD	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SYSTEMD_DEBUG	8.0.22			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SYSTEM_LIBS	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_TCMALLOC	8.0.22			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_TEST_TRACE_PLUGIN	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_TSAN				Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_UBSAN	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_UNIT_TESTS			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_UNIXODBC			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_VALGRIND			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_WINGDIAPY	8.0.29			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ZLIB			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ZSTD	8.0.18			Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_XXX_STORAGE_ENGINE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes