

MySQL Server Version Reference

Abstract

This document provides a single resource for summary information about MySQL server, including specific information on changes between different versions and summary tables for keywords and reserved words, options/variables, operators and functions, and build options.

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Chapter 1 `mysqld` Option/Variable Reference

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The following table shows all the options and variables available across MySQL Server versions 5.1 through 5.7. The table contains these columns:

- **Name:** The name of the option or variable.
- **Intr:** The version in which the option or variable was introduced.
- **Depr:** The version in which the option or variable was deprecated.
- **Cmd:** Indicates whether the option/variable is valid on the command line.
- **Cnf:** Indicates whether the option is valid within a configuration file.
- **Srvr:** Indicates whether the variable is a server system variable.
- **Stat:** Indicates whether the variable is a status variable.
- **Scp:** Indicates the scope of the variable (session-specific, global, or both). A value of `Varies` indicates that the scope varies across versions.
- **Dyn:** Indicates whether the variable is dynamically settable while the server is running. A value of `Varies` indicates that this attribute varies across versions.
- **5.1, 5.5, and so forth:** Indicates whether the option/variable is available in the each MySQL Server series. If more information is available in the main reference manual, the indication will be a link to the correct part of the manual.

Table 1.1 Option/Variable Reference

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
<code>abort-slave-event-count</code>			Yes	Yes					Yes	Yes	Yes	Yes
<code>Aborted_clients</code>						Yes	Global	No	Yes	Yes	Yes	Yes
<code>Aborted_connects</code>						Yes	Global	No	Yes	Yes	Yes	Yes
<code>allow-suspicious-udfs</code>			Yes	Yes					Yes	Yes	Yes	Yes
<code>ansi</code>			Yes	Yes					Yes	Yes	Yes	Yes
<code>audit-log</code>	5.5.28, 5.6.10, 5.7.9		Yes	Yes						Yes	Yes	Yes
<code>audit_log_buffer_size</code>	5.5.28, 5.6.10, 5.7.9		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
<code>audit_log_connection_policy</code>	5.6.20, 5.7.9		Yes	Yes	Yes		Global	Yes			Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
audit_log_current_session	5.6.20, 5.7.9				Yes		Both	No			Yes	Yes
Audit_log_current_size	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
Audit_log_event_max_drop_size	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
Audit_log_events	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
Audit_log_events_filtered	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
Audit_log_events_lost	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
Audit_log_events_written	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
audit_log_exclude_accounts	5.6.20, 5.7.9		Yes	Yes	Yes		Global	Yes			Yes	Yes
audit_log_file	5.5.28, 5.6.10, 5.7.9		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
audit_log_filter_id	5.7.13				Yes		Both	No				Yes
audit_log_flush	5.5.28, 5.6.10, 5.7.9				Yes		Global	Yes		Yes	Yes	Yes
audit_log_format	5.5.34, 5.6.14, 5.7.9		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
audit_log_include_accounts	5.6.20, 5.7.9		Yes	Yes	Yes		Global	Yes			Yes	Yes
audit_log_policy	5.5.28, 5.6.10, 5.7.9		Yes	Yes	Yes		Global	Varies		Yes	Yes	Yes
audit_log_rotate_on_size	5.5.28, 5.6.10, 5.7.9		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
audit_log_statement_policy	5.6.20, 5.7.9		Yes	Yes	Yes		Global	Yes			Yes	Yes
audit_log_strategy	5.5.28, 5.6.10, 5.7.9		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
Audit_log_total_size	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
Audit_log_write_waits	5.6.20, 5.7.9					Yes	Global	No			Yes	Yes
authentication_windows_log	5.5.16, 5.6.10		Yes	Yes						Yes	Yes	

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
authentication_windows_use	5.5.16, 5.6.10	Principal_name	Yes	Yes						Yes	Yes	
auto_generate_certs	5.7.5		Yes	Yes	Yes		Global	No				Yes
auto_increment_increment					Yes		Both	Yes	Yes	Yes	Yes	Yes
auto_increment_offset					Yes		Both	Yes	Yes	Yes	Yes	Yes
autocommit			Yes	Yes	Yes		Varies	Yes	Yes	Yes	Yes	Yes
automatic_sp_privileges					Yes		Global	Yes	Yes	Yes	Yes	Yes
avoid_temporal_upgrade	5.6.24, 5.7.6	5.6.24, 5.7.6	Yes	Yes	Yes		Global	Yes			Yes	Yes
back_log					Yes		Global	No	Yes	Yes	Yes	Yes
basedir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
big-tables			Yes	Yes	Yes		Varies	Yes	Yes	Yes	Yes	Yes
bind-address			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Binlog_cache_disk_use						Yes	Global	No	Yes	Yes	Yes	Yes
binlog_cache_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Binlog_cache_use						Yes	Global	No	Yes	Yes	Yes	Yes
binlog-checksum	5.6.2		Yes	Yes							Yes	Yes
binlog_checksum	5.6.2				Yes		Global	Yes			Yes	Yes
binlog_direct_non_transactional_updates	5.1.44, 5.5.2		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
binlog-do-db			Yes	Yes					Yes	Yes	Yes	Yes
binlog_error_action	5.6.22, 5.7.6		Yes	Yes	Yes		Both	Yes			Yes	Yes
binlog-format	5.1.5		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
binlog_group_commit_sync_delay	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
binlog_group_commit_sync_no_delay_count	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
binlog_gtid_simple_recovery	5.6.23, 5.7.6		Yes	Yes	Yes		Global	No			Yes	Yes
binlog-ignore-db			Yes	Yes					Yes	Yes	Yes	Yes
binlog_max_flush_queue_time	5.6.6	5.7.9			Yes		Global	Yes			Yes	Yes
binlog_order_commits	5.6.6				Yes		Global	Yes			Yes	Yes
binlog-row-event-max-size	5.1.5		Yes	Yes					Yes	Yes	Yes	Yes
binlog_row_image	5.6.2		Yes	Yes	Yes		Both	Yes			Yes	Yes
binlog-rows-query-log-events	5.6.2		Yes	Yes							Yes	Yes
binlog_rows_query_log_events	5.6.2				Yes		Both	Yes			Yes	Yes
Binlog_stmt_cache_disk_use	5.5.9, 5.6.1					Yes	Global	No		Yes	Yes	Yes
binlog_stmt_cache_size	5.5.9, 5.6.1		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Binlog_stmt_cache_use	5.5.9, 5.6.1					Yes	Global	No		Yes	Yes	Yes
binlogging_impossible_mode	5.6.20, 5.7.5	5.6.22, 5.7.6	Yes	Yes	Yes		Both	Yes			Yes	Yes
block_encryption_mode	5.6.17, 5.7.4		Yes	Yes	Yes		Both	Yes			Yes	Yes
bootstrap		5.7.6	Yes	Yes					Yes	Yes	Yes	Yes
bulk_insert_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Bytes_received						Yes	Both	No	Yes	Yes	Yes	Yes
Bytes_sent						Yes	Both	No	Yes	Yes	Yes	Yes
character_set_client					Yes		Both	Yes	Yes	Yes	Yes	Yes
character-set-client-handshake			Yes	Yes					Yes	Yes	Yes	Yes
character_set_connection					Yes		Both	Yes	Yes	Yes	Yes	Yes
character_set_database					Yes		Both	Yes	Yes	Yes	Yes	Yes
character-set-filesystem	5.1.6		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
character_set_results					Yes		Both	Yes	Yes	Yes	Yes	Yes
character-set-server			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
character_set_system					Yes		Global	No	Yes	Yes	Yes	Yes
character-sets-dir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
check_proxy_users	5.7.7		Yes	Yes	Yes		Global	Yes				Yes
chroot			Yes	Yes					Yes	Yes	Yes	Yes
collation_connection					Yes		Both	Yes	Yes	Yes	Yes	Yes
collation_database					Yes		Both	Yes	Yes	Yes	Yes	Yes
collation-server			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Com_admin_commands						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_db						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_db_upgrade						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_event						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_function						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_procedure						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_server						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_table						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_tablespace						Yes	Both	No	Yes	Yes	Yes	Yes
Com_alter_user	5.6.6					Yes	Both	No			Yes	Yes
Com_analyze						Yes	Both	No	Yes	Yes	Yes	Yes
Com_assign_to_keycache						Yes	Both	No	Yes	Yes	Yes	Yes
Com_backup_table						Yes	Both	No	Yes			
Com_begin						Yes	Both	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Com_binlog						Yes	Both	No	Yes	Yes	Yes	Yes
Com_call_procedure	5.1.19					Yes	Both	No	Yes	Yes	Yes	Yes
Com_change_db						Yes	Both	No	Yes	Yes	Yes	Yes
Com_change_master						Yes	Both	No	Yes	Yes	Yes	Yes
Com_change_repl_filter	5.7.3					Yes	Both	No				Yes
Com_check						Yes	Both	No	Yes	Yes	Yes	Yes
Com_checksum						Yes	Both	No	Yes	Yes	Yes	Yes
Com_commit						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_db						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_event						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_function						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_index						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_procedure						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_server						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_table						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_trigger						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_udf						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_user						Yes	Both	No	Yes	Yes	Yes	Yes
Com_create_view						Yes	Both	No	Yes	Yes	Yes	Yes
Com_dealloc_sql						Yes	Both	No	Yes	Yes	Yes	Yes
Com_delete						Yes	Both	No	Yes	Yes	Yes	Yes
Com_delete_multi						Yes	Both	No	Yes	Yes	Yes	Yes
Com_do						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_db						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_event						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_function						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_index						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_procedure						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_server						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_table						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_trigger						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_user						Yes	Both	No	Yes	Yes	Yes	Yes
Com_drop_view						Yes	Both	No	Yes	Yes	Yes	Yes
Com_empty_query						Yes	Both	No	Yes	Yes	Yes	Yes
Com_execute_sql						Yes	Both	No	Yes	Yes	Yes	Yes
Com_explain_other	5.7.2					Yes	Both	No				Yes
Com_flush						Yes	Both	No	Yes	Yes	Yes	Yes
Com_get_diagnostics	5.6.4					Yes	Both	No			Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Com_grant						Yes	Both	No	Yes	Yes	Yes	Yes
Com_ha_close						Yes	Both	No	Yes	Yes	Yes	Yes
Com_ha_open						Yes	Both	No	Yes	Yes	Yes	Yes
Com_ha_read						Yes	Both	No	Yes	Yes	Yes	Yes
Com_help						Yes	Both	No	Yes	Yes	Yes	Yes
Com_insert						Yes	Both	No	Yes	Yes	Yes	Yes
Com_insert_select						Yes	Both	No	Yes	Yes	Yes	Yes
Com_install_plugin						Yes	Both	No	Yes	Yes	Yes	Yes
Com_kill						Yes	Both	No	Yes	Yes	Yes	Yes
Com_load						Yes	Both	No	Yes	Yes	Yes	Yes
Com_lock_tables						Yes	Both	No	Yes	Yes	Yes	Yes
Com_optimize						Yes	Both	No	Yes	Yes	Yes	Yes
Com_preload_keys						Yes	Both	No	Yes	Yes	Yes	Yes
Com_prepare_sql						Yes	Both	No	Yes	Yes	Yes	Yes
Com_purge						Yes	Both	No	Yes	Yes	Yes	Yes
Com_purge_before_date						Yes	Both	No	Yes	Yes	Yes	Yes
Com_release_savepoint						Yes	Both	No	Yes	Yes	Yes	Yes
Com_rename_table						Yes	Both	No	Yes	Yes	Yes	Yes
Com_rename_user						Yes	Both	No	Yes	Yes	Yes	Yes
Com_repair						Yes	Both	No	Yes	Yes	Yes	Yes
Com_replace						Yes	Both	No	Yes	Yes	Yes	Yes
Com_replace_select						Yes	Both	No	Yes	Yes	Yes	Yes
Com_reset						Yes	Both	No	Yes	Yes	Yes	Yes
Com_resignal						Yes	Both	No		Yes	Yes	Yes
Com_restore_table						Yes	Both	No	Yes			
Com_revoke						Yes	Both	No	Yes	Yes	Yes	Yes
Com_revoke_all						Yes	Both	No	Yes	Yes	Yes	Yes
Com_rollback						Yes	Both	No	Yes	Yes	Yes	Yes
Com_rollback_to_savepoint						Yes	Both	No	Yes	Yes	Yes	Yes
Com_savepoint						Yes	Both	No	Yes	Yes	Yes	Yes
Com_select						Yes	Both	No	Yes	Yes	Yes	Yes
Com_set_option						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_authors						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_binlog_events						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_binlogs						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_charsets						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_collations						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_column_types						Yes	Both	No	Yes			

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Com_show_contributors						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_db						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_event						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_func						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_proc						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_table						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_trigger						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_create_user	5.7.6					Yes	Both	No				Yes
Com_show_databases						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_engine_logs						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_engine_mutex						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_engine_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_errors						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_events						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_fields						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_function_code						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_function_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_grants						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_keys						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_logs						Yes	Both	No	Yes			
Com_show_master_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_ndb_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_new_master						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_open_tables						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_plugins						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_privileges						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_procedure_code						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_procedure_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_processlist						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_profile	5.1.24					Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_profiles	5.1.24					Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_relaylog_events						Yes	Both	No		Yes	Yes	Yes
Com_show_slave_hosts						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_slave_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_slave_status_nonblocking	5.7.6					Yes	Both	No				Yes
Com_show_status						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_storage_engines						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_table_status						Yes	Both	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Com_show_tables						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_triggers						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_variables						Yes	Both	No	Yes	Yes	Yes	Yes
Com_show_warnings						Yes	Both	No	Yes	Yes	Yes	Yes
Com_shutdown	5.7.9					Yes	Both	No				Yes
Com_signal						Yes	Both	No		Yes	Yes	Yes
Com_slave_start						Yes	Both	No	Yes	Yes	Yes	Yes
Com_slave_stop						Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_close						Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_execute						Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_fetch						Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_prepare						Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_reprepare	5.1.25					Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_reset						Yes	Both	No	Yes	Yes	Yes	Yes
Com_stmt_send_long_data						Yes	Both	No	Yes	Yes	Yes	Yes
Com_truncate						Yes	Both	No	Yes	Yes	Yes	Yes
Com_uninstall_plugin						Yes	Both	No	Yes	Yes	Yes	Yes
Com_unlock_tables						Yes	Both	No	Yes	Yes	Yes	Yes
Com_update						Yes	Both	No	Yes	Yes	Yes	Yes
Com_update_multi						Yes	Both	No	Yes	Yes	Yes	Yes
Com_xa_commit						Yes	Both	No	Yes	Yes	Yes	Yes
Com_xa_end						Yes	Both	No	Yes	Yes	Yes	Yes
Com_xa_prepare						Yes	Both	No	Yes	Yes	Yes	Yes
Com_xa_recover						Yes	Both	No	Yes	Yes	Yes	Yes
Com_xa_rollback						Yes	Both	No	Yes	Yes	Yes	Yes
Com_xa_start						Yes	Both	No	Yes	Yes	Yes	Yes
completion_type			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Compression						Yes	Session	No	Yes	Yes	Yes	Yes
concurrent_insert			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
connect_timeout			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Connection_errors_accept	5.6.5					Yes	Global	No			Yes	Yes
Connection_errors_internal	5.6.5					Yes	Global	No			Yes	Yes
Connection_errors_max_connections	5.6.5					Yes	Global	No			Yes	Yes
Connection_errors_peer_address	5.6.5					Yes	Global	No			Yes	Yes
Connection_errors_select	5.6.5					Yes	Global	No			Yes	Yes
Connection_errors_tcpwrap	5.6.5					Yes	Global	No			Yes	Yes
Connections						Yes	Global	No	Yes	Yes	Yes	Yes
console			Yes	Yes					Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
core-file			Yes	Yes					Yes	Yes	Yes	Yes
core_file	5.6.2				Yes		Global	No			Yes	Yes
create_old_temporals	5.6.25- ndb-7.4.7	5.6.25- ndb-7.4.7	Yes	Yes	Yes		Global	No			Yes	
Created_tmp_disk_tables						Yes	Both	No	Yes	Yes	Yes	Yes
Created_tmp_files						Yes	Global	No	Yes	Yes	Yes	Yes
Created_tmp_tables						Yes	Both	No	Yes	Yes	Yes	Yes
daemon_memcached_enable_binlog	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
daemon_memcached_engine_library	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
daemon_memcached_engine_library	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
daemon_memcached_option	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
daemon_memcached_r_batch_size	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
daemon_memcached_w_batch_size	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
daemonize	5.7.6		Yes	Yes								Yes
datadir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
date_format					Yes		Varies	No	Yes	Yes	Yes	Yes
datetime_format					Yes		Varies	No	Yes	Yes	Yes	Yes
debug			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
debug_sync	5.1.41				Yes		Varies	Yes	Yes	Yes	Yes	Yes
debug-sync-timeout	5.1.41		Yes	Yes					Yes	Yes	Yes	Yes
default-authentication-plugin	5.6.6		Yes	Yes							Yes	Yes
default_authentication_plugin	5.7.2		Yes	Yes	Yes		Global	No				Yes
default-character-set		5.0.0	Yes	Yes					Yes	Yes		
default_password_lifetime	5.7.4		Yes	Yes	Yes		Global	Yes				Yes
default-storage-engine			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
default-table-type		5.0.0	Yes	Yes					Yes			
default-time-zone			Yes	Yes					Yes	Yes	Yes	Yes
default_tmp_storage_engine	5.6.3		Yes	Yes	Yes		Both	Yes			Yes	Yes
default_week_format			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
defaults-extra-file			Yes						Yes	Yes	Yes	Yes
defaults-file			Yes						Yes	Yes	Yes	Yes
defaults-group-suffix			Yes						Yes	Yes	Yes	Yes
delay-key-write			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Delayed_errors		5.6.7				Yes	Global	No	Yes	Yes	Yes	Yes
delayed_insert_limit		5.6.7	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Delayed_insert_threads		5.6.7				Yes	Global	No	Yes	Yes	Yes	Yes
delayed_insert_timeout		5.6.7	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
delayed_queue_size		5.6.7	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Delayed_writes		5.6.7				Yes	Global	No	Yes	Yes	Yes	Yes
des-key-file			Yes	Yes					Yes	Yes	Yes	Yes
disable-gtid-unsafe-statements	5.6.5		Yes	Yes	Yes		Global	No			Yes	
disable_gtid_unsafe_statements	5.6.5		Yes	Yes	Yes		Global	No			Yes	
disabled_storage_engines	5.7.8		Yes	Yes	Yes		Global	No				Yes
disconnect_on_expired_password	5.6.10, 5.7.1		Yes	Yes	Yes		Session	No			Yes	Yes
disconnect-slave-event-count			Yes	Yes					Yes	Yes	Yes	Yes
div_precision_increment			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
early-plugin-load	5.7.11		Yes	Yes								Yes
enable-locking			Yes	Yes					Yes	Yes		
enable-named-pipe			Yes	Yes					Yes	Yes	Yes	Yes
enable-pstack		5.1.54	Yes	Yes					Yes	Yes		
end_markers_in_json	5.6.5				Yes		Both	Yes			Yes	Yes
enforce-gtid-consistency	5.6.9		Yes	Yes	Yes		Global	Varies			Yes	Yes
enforce_gtid_consistency	5.6.9		Yes	Yes	Yes		Global	Varies			Yes	Yes
engine-condition-pushdown		5.5.3	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	
eq_range_index_dive_limit	5.6.5				Yes		Both	Yes			Yes	Yes
error_count					Yes		Session	No	Yes	Yes	Yes	Yes
event-scheduler	5.1.6		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
executed-gtids-compression-period	5.7.5	5.7.6	Yes	Yes								Yes
executed_gtids_compression_period	5.7.5	5.7.6			Yes		Global	Yes				Yes
exit-info			Yes	Yes					Yes	Yes	Yes	Yes
expire_logs_days			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
explicit_defaults_for_timestamp	5.6.6	5.6.6	Yes	Yes	Yes		Both	No			Yes	Yes
external-locking			Yes	Yes					Yes	Yes	Yes	Yes
external_user	5.5.7				Yes		Session	No		Yes	Yes	Yes
federated	5.1.26		Yes	Yes					Yes	Yes	Yes	Yes
Firewall_access_denied	5.6.24, 5.7.9					Yes	Global	No			Yes	Yes
Firewall_access_granted	5.6.24, 5.7.9					Yes	Global	No			Yes	Yes
Firewall_cached_entries	5.6.24, 5.7.9					Yes	Global	No			Yes	Yes
flush			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Flush_commands						Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
flush_time			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
foreign_key_checks					Yes		Varies	Yes	Yes	Yes	Yes	Yes
ft_boolean_syntax			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ft_max_word_len			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ft_min_word_len			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ft_query_expansion_limit			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ft_stopword_file			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
gdb			Yes	Yes					Yes	Yes	Yes	Yes
general-log	5.1.12		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
general_log_file	5.1.12		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
group_concat_max_len			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
gtid_done	5.6.5				Yes		Both	No			Yes	
gtid_executed	5.6.9				Yes		Varies	No			Yes	Yes
gtid-executed-compression-period	5.7.6		Yes	Yes								Yes
gtid_executed_compression_period	5.7.6				Yes		Global	Yes				Yes
gtid_lost	5.6.5				Yes		Global	No			Yes	
gtid-mode	5.6.5		Yes	Yes	Yes		Global	Varies			Yes	Yes
gtid_mode	5.6.5				Yes		Global	Varies			Yes	Yes
gtid_next	5.6.5				Yes		Session	Yes			Yes	Yes
gtid_owned	5.6.5				Yes		Both	No			Yes	Yes
gtid_purged	5.6.9				Yes		Global	Yes			Yes	Yes
Handler_commit						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_delete						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_discover						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_external_lock	5.6.2					Yes	Both	No			Yes	Yes
Handler_mrr_init	5.6.1					Yes	Both	No			Yes	Yes
Handler_prepare						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_read_first						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_read_key						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_read_last	5.5.7, 5.6.1					Yes	Both	No		Yes	Yes	Yes
Handler_read_next						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_read_prev						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_read_rnd						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_read_rnd_next						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_rollback						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_savepoint						Yes	Both	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Handler_savepoint_rollback						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_update						Yes	Both	No	Yes	Yes	Yes	Yes
Handler_write						Yes	Both	No	Yes	Yes	Yes	Yes
have_archive					Yes		Global	No	Yes			
have_blackhole_engine					Yes		Global	No	Yes			
have_community_features	5.1.24				Yes		Global	No	Yes			
have_compress					Yes		Global	No	Yes	Yes	Yes	Yes
have_crypt					Yes		Global	No	Yes	Yes	Yes	Yes
have_csv					Yes		Global	No	Yes	Yes	Yes	
have_dynamic_loading	5.1.10				Yes		Global	No	Yes	Yes	Yes	Yes
have_example_engine					Yes		Global	No	Yes			
have_federated_engine					Yes		Global	No	Yes			
have_geometry					Yes		Global	No	Yes	Yes	Yes	Yes
have_innodb					Yes		Global	No	Yes	Yes	Yes	
have_isam					Yes		Global	No	Yes			
have_merge_engine					Yes		Global	No	Yes			
have_ndbcluster					Yes		Global	No	Yes	Yes	Yes	
have_openssl					Yes		Global	No	Yes	Yes	Yes	Yes
have_partition_engine	5.1.1	5.1.6			Yes		Global	No	Yes			
have_partitioning	5.1.6				Yes		Global	No	Yes	Yes	Yes	
have_profiling		5.6.8			Yes		Global	No		Yes	Yes	Yes
have_query_cache					Yes		Global	No	Yes	Yes	Yes	Yes
have_raid					Yes		Global	No	Yes			
have_row_based_replication	5.1.5				Yes		Global	No	Yes			
have_rtree_keys					Yes		Global	No	Yes	Yes	Yes	Yes
have_ssl	5.1.17				Yes		Global	No	Yes	Yes	Yes	Yes
have_statement_timeout	5.7.4				Yes		Global	No				Yes
have_symlink					Yes		Global	No	Yes	Yes	Yes	Yes
help			Yes	Yes					Yes	Yes	Yes	Yes
host_cache_size	5.6.5				Yes		Global	Yes			Yes	Yes
hostname	5.1.17				Yes		Global	No	Yes	Yes	Yes	Yes
identity					Yes		Session	Yes	Yes	Yes	Yes	Yes
ignore-builtin-innodb	5.1.33	5.5.22	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ignore-db-dir	5.6.3		Yes	Yes							Yes	Yes
ignore_db_dirs	5.6.3				Yes		Global	No			Yes	Yes
init_connect			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
init-file			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
init-rpl-role		5.5.3, 6.0.14	Yes	Yes					Yes	Yes		
init_slave			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
initialize	5.7.6		Yes	Yes								Yes
initialize-insecure	5.7.6		Yes	Yes								Yes
innodb		5.6.21, 5.7.5	Yes	Yes					Yes	Yes	Yes	Yes
innodb_adaptive_flushing	5.1.38		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_flushing_log	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_adaptive_hash_index	5.1.24		Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes
innodb_adaptive_hash_index_parts	5.7.8		Yes	Yes	Yes		Global	No				Yes
innodb_adaptive_max_sleep_time	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_additional_mem_pool_size	5.6.3		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_api_bk_commit_interval	5.6.7		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_api_disable_rowlock	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_api_enable_binlog	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_api_enable_md1	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_api_trx_level	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_autoextend_increment			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_autoinc_lock_mode	5.1.22		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Innodb_available_undo_logs	5.6.5					Yes	Global	No			Yes	Yes
innodb_background_drop_list_empty	5.7.10		Yes	Yes	Yes		Global	Yes				Yes
innodb_buffer_pool_ave_mem_mb			Yes	Yes	Yes		Global	No	Yes			
Innodb_buffer_pool_bytes_data	5.5.30, 5.6.10					Yes	Global	No		Yes	Yes	Yes
Innodb_buffer_pool_bytes_data_low	5.5.30, 5.6.10					Yes	Global	No		Yes	Yes	Yes
innodb_buffer_pool_chunk_size	5.7.5		Yes	Yes	Yes		Global	No				Yes
innodb_buffer_pool_dump_at_shutdown	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_buffer_pool_dump_now	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_buffer_pool_dump_pct	5.7.2		Yes	Yes	Yes		Global	Yes				Yes
Innodb_buffer_pool_dump_status	5.6.3					Yes	Global	No			Yes	Yes
innodb_buffer_pool_filename	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_buffer_pool_instances	5.5.4		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
innodb_buffer_pool_load_abort	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_buffer_pool_load_at_startup	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_buffer_pool_load_now	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
Innodb_buffer_pool_load_status	5.6.3					Yes	Global	No			Yes	Yes
Innodb_buffer_pool_pages_data						Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Innodb_buffer_pool_pages_dirty						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_flushed						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_free						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_latched						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_misc						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_total						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead	5.1.42					Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_evicted	5.1.42					Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_rnd						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_seq						Yes	Global	No	Yes			
Innodb_buffer_pool_read_requests						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_reads						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_resize_status	5.7.5					Yes	Global	No				Yes
innodb_buffer_pool_size			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes
Innodb_buffer_pool_wait_free						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_buffer_pool_write_requests						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_change_buffer_max_size	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_change_buffering	5.1.38		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_change_buffering_delete	5.1.53		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_checksum_algorithm	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_checksums		5.6.3	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_cmp_per_index_enabled	5.6.7		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_commit_concurrency			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_compress_debug	5.7.8		Yes	Yes	Yes		Global	Yes				Yes
innodb_compression_failure_in_shutdown_pct	5.6.7		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_compression_level	5.6.7		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_compression_pad_pct_max	5.6.7		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_concurrency_tickets			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_create_intrinsic	5.7.5		Yes	Yes	Yes		Session	Yes				Yes
innodb_data_file_path			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Innodb_data_fsyncs						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_data_home_dir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Innodb_data_pending_fsyncs						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_data_pending_reads						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_data_pending_writes						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_data_read						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_data_reads						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_data_writes						Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Innodb_data_written						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_dblwr_pages_written						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_dblwr_writes						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_default_row_format	5.7.9		Yes	Yes	Yes		Global	Yes				Yes
innodb_disable_resize_buffer	5.7.6		Yes	Yes	Yes		Global	Yes				Yes
innodb_disable_sort_file_cache	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_doublewrite			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_fast_shutdown			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_fil_make_page_dirty	5.6.17		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_file_format	5.1.38	5.7.7	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_file_format_check	5.1.38	5.7.7	Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes
innodb_file_format_max	5.5.5	5.7.7	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
innodb_file_io_threads			Yes	Yes	Yes		Global	No	Yes			
innodb_file_per_table			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes
innodb_fill_factor	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
innodb_flush_log_at_timeout	5.6.6				Yes		Global	Yes			Yes	Yes
innodb_flush_log_at_trx_commit			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_flush_method			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_flush_neighbors	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_flush_sync	5.7.8		Yes	Yes	Yes		Global	Yes				Yes
innodb_flushing_avg_loops	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_force_load_corrupted	5.5.18, 5.6.3		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
innodb_force_recovery			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_ft_aux_table	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_ft_cache_size	5.6.4		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_ft_enable_diag_print	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_ft_enable_stopword	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_ft_max_token_size	5.6.4		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_ft_min_token_size	5.6.4		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_ft_num_word_optimize	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_ft_result_cache_limit	5.6.13, 5.7.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_ft_server_stopword_table	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_ft_sort_pll_degree	5.6.4		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_ft_total_cache_size	5.6.13, 5.7.2		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_ft_user_stopword_table	5.6.4		Yes	Yes	Yes		Both	Yes			Yes	Yes
Innodb_have_atomic_builtins	5.1.38					Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
innodb_io_capacity	5.1.38		Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes
innodb_io_capacity_max	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_large_prefix	5.5.14, 5.6.3	5.7.7	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
innodb_limit_optimistic_innodb_debug	5.1.68		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_lock_wait_timeout			Yes	Yes	Yes		Varies	Varies	Yes	Yes	Yes	Yes
innodb_locks_unsafe_for_binlog		5.6.3	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_log_arch_dir		5.0.24	Yes	Yes	Yes		Global	No	Yes			
innodb_log_archive			Yes	Yes	Yes		Global	No	Yes			
innodb_log_buffer_size			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_log_checksum_algorithm	5.7.8		Yes	Yes	Yes		Global	Yes				Yes
innodb_log_checksums	5.7.9		Yes	Yes	Yes		Global	Yes				Yes
innodb_log_compressed_pages	5.6.11		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_log_file_size			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_log_files_in_group			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_log_group_home_dir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Innodb_log_waits						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_log_write_ahead_size	5.7.4		Yes	Yes	Yes		Global	Yes				Yes
Innodb_log_write_requests						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_log_writes						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_lru_scan_depth	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_max_dirty_pages_pct			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_pages_pct_innodb	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_max_purge_lag			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_max_purge_lag_delay	5.6.5		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_max_undo_log_size	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
innodb_merge_threshold_set_innodb_debug	5.7.6		Yes	Yes	Yes		Global	Yes				Yes
innodb_mirrored_log_groups			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	
innodb_monitor_disable	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_monitor_enable	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_monitor_reset	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_monitor_reset_all	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
Innodb_num_open_files	5.6.2					Yes	Global	No			Yes	Yes
innodb_numa_interleave	5.6.27, 5.7.9		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_old_blocks_pct	5.1.41		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_time	5.1.41		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_online_alter_log_max_size	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes

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innodb_open_files			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_optimize_fulltext_only	5.6.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_optimize_point_storage	5.7.5		Yes	Yes	Yes		Session	Yes				Yes
Innodb_os_log_fsyncs						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_os_log_pending_fsyncs						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_os_log_pending_writes						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_os_log_written						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_page_cleaners	5.7.4		Yes	Yes	Yes		Global	No				Yes
Innodb_page_size						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_page_size	5.6.4		Yes	Yes	Yes		Global	No			Yes	Yes
Innodb_pages_created						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_pages_read						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_pages_written						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_print_all_deadlocks	5.5.30, 5.6.2		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
innodb_purge_batch_size	5.5.4		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
innodb_purge_rseg_truncate_frequency	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
innodb_purge_threads	5.5.4		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
innodb_random_read_ahead	5.1.59, 5.5.16, 5.6.3		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_read_ahead_threshold	5.1.38		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_read_io_threads	5.1.38		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_read_only	5.6.7		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_replication_delay	5.1.38		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_rollback_on_timeout	5.1.15		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_rollback_segments	5.5.11, 5.6.2		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
Innodb_row_lock_current_waits						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_row_lock_time						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_row_lock_time_avg						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_row_lock_time_max						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_row_lock_waits						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_rows_deleted						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_rows_inserted						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_rows_read						Yes	Global	No	Yes	Yes	Yes	Yes
Innodb_rows_updated						Yes	Global	No	Yes	Yes	Yes	Yes
innodb_saved_page_number_desired	5.6.17		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_sort_buffer_size	5.6.4		Yes	Yes	Yes		Global	No			Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
innodb_spin_wait_delay	5.1.38		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_stats_auto_recalc	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_stats_method	5.1.56, 5.5.10, 5.6.2		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_stats_on_metadata	5.1.17, 5.5.4		Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes
innodb_stats_persistent	5.6.6		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_stats_persistent_sample_pages	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_stats_sample_pages	5.1.38	5.6.3	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_stats_transient_sample_pages	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb-status-file			Yes	Yes					Yes	Yes	Yes	Yes
innodb_status_output	5.6.16, 5.7.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_status_output_locks	5.6.16, 5.7.4		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_strict_mode	5.1.38		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
innodb_support_xa		5.7.10	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
innodb_sync_array_size	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_sync_debug	5.7.8		Yes	Yes	Yes		Global	No				Yes
innodb_sync_spin_loops			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_table_locks			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
innodb_temp_data_file_path	5.7.1		Yes	Yes	Yes		Global	No				Yes
innodb_thread_concurrency			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_thread_sleep_delay			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_tmpdir	5.6.29, 5.7.11		Yes	Yes	Yes		Both	Yes			Yes	Yes
Innodb_truncated_status_writes	5.5.7					Yes	Global	No		Yes	Yes	Yes
innodb_trx_purge_view_updates_always_debug	5.1.68		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_trx_rseg_n_slots_debug	5.1.62		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
innodb_undo_directory	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_undo_log_truncate	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
innodb_undo_logs	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
innodb_undo_tablespace	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
innodb_use_legacy_cardinality_algorithm	5.1.35		Yes	Yes	Yes		Global	Yes	Yes			
innodb_use_native_aio	5.5.4		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
innodb_use_sys_malloc	5.1.38	5.6.3	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
innodb_version	5.1.38				Yes		Global	No	Yes	Yes	Yes	Yes
innodb_write_io_threads	5.1.38		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
insert_id					Yes		Session	Yes	Yes	Yes	Yes	Yes
install			Yes						Yes	Yes	Yes	Yes
install-manual			Yes						Yes	Yes	Yes	Yes
interactive_timeout			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
internal_tmp_disk_storage_engine	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
join_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
keep_files_on_create	5.1.21		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Key_blocks_not_flushed						Yes	Global	No	Yes	Yes	Yes	Yes
Key_blocks_unused						Yes	Global	No	Yes	Yes	Yes	Yes
Key_blocks_used						Yes	Global	No	Yes	Yes	Yes	Yes
key_buffer_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
key_cache_age_threshold			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
key_cache_block_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
key_cache_division_limit			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Key_read_requests						Yes	Global	No	Yes	Yes	Yes	Yes
Key_reads						Yes	Global	No	Yes	Yes	Yes	Yes
Key_write_requests						Yes	Global	No	Yes	Yes	Yes	Yes
Key_writes						Yes	Global	No	Yes	Yes	Yes	Yes
keyring_file_data	5.7.11		Yes	Yes	Yes		Global	Yes				Yes
keyring_okv_conf_dir	5.7.12		Yes	Yes	Yes		Global	Yes				Yes
language		5.5.0, 5.6.1	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
large_files_support					Yes		Global	No	Yes	Yes	Yes	Yes
large_page_size					Yes		Global	No	Yes	Yes	Yes	Yes
large-pages			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
last_insert_id					Yes		Session	Yes	Yes	Yes	Yes	Yes
Last_query_cost						Yes	Session	No	Yes	Yes	Yes	Yes
Last_query_partial_plans	5.6.5					Yes	Session	No			Yes	Yes
lc-messages			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes
lc-messages-dir			Yes	Yes	Yes		Global	No		Yes	Yes	Yes
lc_time_names	5.1.12				Yes		Both	Yes	Yes	Yes	Yes	Yes
license					Yes		Global	No	Yes	Yes	Yes	Yes
local_infile					Yes		Global	Yes	Yes	Yes	Yes	Yes
local-service			Yes						Yes	Yes	Yes	Yes
lock_wait_timeout	5.5.3		Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes
Locked_connects	5.7.6					Yes	Global	No				Yes
locked_in_memory					Yes		Global	No	Yes	Yes	Yes	Yes
log		5.1.29	Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
log_backward_compatible_use	5.7.6	Definitions	Yes	Yes	Yes		Global	Yes				Yes
log-bin			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
log_bin					Yes		Global	No	Yes	Yes	Yes	Yes
log_bin_basename	5.6.2				Yes		Global	No			Yes	Yes
log-bin-index			Yes	Yes					Yes	Yes	Yes	Yes
log_bin_index	5.6.4				Yes		Global	No			Yes	Yes
log-bin-trust-function-creators			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
log-bin-trust-routine-creators		5.0.16	Yes	Yes	Yes		Global	Yes	Yes	Yes		
log-bin-use-v1-row-events	5.1.56-ndb-7.0-27, 5.1.56-ndb-7.1.16, 5.5.15-ndb-7.2.1, 5.6.6		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
log_bin_use_v1_row_events	5.1.56-ndb-7.0-27, 5.1.56-ndb-7.1.16, 5.5.15-ndb-7.2.1, 5.6.6		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
log_builtin_as_identified_by_password	5.7.9	Password	Yes	Yes	Yes		Global	Yes				Yes
log-error			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
log_error_verbosity	5.7.2		Yes	Yes	Yes		Global	Yes				Yes
log-isam			Yes	Yes					Yes	Yes	Yes	Yes
log-output	5.1.6		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
log-queries-not-using-indexes			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
log-raw	5.6.3		Yes	Yes							Yes	Yes
log-short-format			Yes	Yes					Yes	Yes	Yes	Yes
log-slave-updates			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
log_slave_updates			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
log-slow-admin-statements			Yes	Yes					Yes	Yes	Yes	Yes
log_slow_admin_statements	5.6.11, 5.7.1				Yes		Global	Yes			Yes	Yes
log-slow-queries		5.1.29	Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	
log-slow-slave-statements	5.1.21		Yes	Yes					Yes	Yes	Yes	Yes
log_slow_slave_statements	5.6.11, 5.7.1				Yes		Global	Yes			Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
log_statements_unsafe_for_binlog	5.7.10				Yes		Global	Yes				Yes
log_syslog	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
log_syslog_facility	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
log_syslog_include_pid	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
log_syslog_tag	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
log-tc			Yes	Yes					Yes	Yes	Yes	Yes
log-tc-size			Yes	Yes					Yes	Yes	Yes	Yes
log_throttle_queries_not_using_indexes	5.6.5				Yes		Global	Yes			Yes	Yes
log_timestamps	5.7.2		Yes	Yes	Yes		Global	Yes				Yes
log-warnings		5.7.2	Yes	Yes	Yes		Varies	Yes	Yes	Yes	Yes	Yes
long_query_time			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
low-priority-updates			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
lower_case_file_system					Yes		Global	No	Yes	Yes	Yes	Yes
lower_case_table_names			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
master-connect-retry		5.1.17	Yes	Yes					Yes	Yes		
master-host		5.1.17	Yes	Yes					Yes	Yes		
master-info-file			Yes	Yes					Yes	Yes	Yes	Yes
master-info-repository	5.6.2		Yes	Yes							Yes	Yes
master_info_repository	5.6.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
master-password		5.1.17	Yes	Yes					Yes	Yes		
master-port		5.1.17	Yes	Yes					Yes	Yes		
master-retry-count		5.6.1	Yes	Yes					Yes	Yes	Yes	Yes
master-ssl		5.1.17	Yes	Yes					Yes	Yes		
master-ssl-ca		5.1.17	Yes	Yes					Yes	Yes		
master-ssl-capath		5.1.17	Yes	Yes					Yes	Yes		
master-ssl-cert		5.1.17	Yes	Yes					Yes	Yes		
master-ssl-cipher		5.1.17	Yes	Yes					Yes	Yes		
master-ssl-key		5.1.17	Yes	Yes					Yes	Yes		
master-user		5.1.17	Yes	Yes					Yes	Yes		
master-verify-checksum	5.6.2		Yes	Yes							Yes	Yes
master_verify_checksum	5.6.2				Yes		Global	Yes			Yes	Yes
max_allowed_packet			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_binlog_cache_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
max-binlog-dump-events			Yes	Yes					Yes	Yes	Yes	Yes
max_binlog_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
max_binlog_stmt_cache_size	5.5.9, 5.6.1		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
max_connect_errors			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
max_connections			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
max_delayed_threads		5.6.7	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_digest_length	5.6.24, 5.7.6		Yes	Yes	Yes		Global	No			Yes	Yes
max_error_count			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_execution_time	5.7.8		Yes	Yes	Yes		Both	Yes				Yes
Max_execution_time_exceeded	5.7.8					Yes	Both	No				Yes
Max_execution_time_set	5.7.8					Yes	Both	No				Yes
Max_execution_time_set_failed	5.7.8					Yes	Both	No				Yes
max_heap_table_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_insert_delayed_threads		5.6.7			Yes		Both	Yes	Yes	Yes	Yes	Yes
max_join_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_length_for_sort_data			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_long_data_size	5.1.57, 5.5.11	5.1.57, 5.5.11	Yes	Yes	Yes		Global	No	Yes	Yes		
max_points_in_geometry	5.7.8		Yes	Yes	Yes		Global	Yes				Yes
max_prepared_stmt_count	5.1.10		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
max_relay_log_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
max_seeks_for_key			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_sort_length			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_sp_recursion_depth			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_statement_time	5.7.4				Yes		Both	Yes				Yes
Max_statement_time_exceeded	5.7.4					Yes	Both	No				Yes
Max_statement_time_set	5.7.4					Yes	Both	No				Yes
Max_statement_time_set_failed	5.7.4					Yes	Both	No				Yes
max_tmp_tables		5.6.7			Yes		Both	Yes	Yes	Yes	Yes	Yes
Max_used_connections						Yes	Global	No	Yes	Yes	Yes	Yes
Max_used_connections_time	5.7.5					Yes	Global	No				Yes
max_user_connections			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
max_write_lock_count			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
mecab_charset	5.7.6					Yes	Global	No				Yes
mecab_rc_file	5.7.6		Yes	Yes	Yes		Global	No				Yes
memlock			Yes	Yes					Yes	Yes	Yes	Yes
merge	5.1.12		Yes	Yes					Yes			
metadata_locks_cache_size	5.5.19, 5.6.4	5.7.4			Yes		Global	No		Yes	Yes	Yes
metadata_locks_hash_instances	5.6.8	5.7.4			Yes		Global	No			Yes	Yes
min-examined-row-limit	5.1.21		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
multi_range_count		5.6.7	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes

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myisam-block-size			Yes	Yes					Yes	Yes	Yes	Yes
myisam_data_pointer_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
myisam_max_sort_file_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
myisam_mmap_size	5.1.43, 5.5.1		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
myisam-recover			Yes	Yes					Yes	Yes		
myisam-recover-options	5.5.3		Yes	Yes						Yes	Yes	Yes
myisam_recover_options					Yes		Global	No	Yes	Yes	Yes	Yes
myisam_repair_threads			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
myisam_sort_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
myisam_stats_method			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
myisam_use_mmap	5.1.4		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
mysql_firewall_max_query_size	5.6.24		Yes	Yes	Yes		Global	No			Yes	
mysql_firewall_mode	5.6.24, 5.7.9		Yes	Yes	Yes		Global	Yes			Yes	Yes
mysql_firewall_trace	5.6.24, 5.7.9		Yes	Yes	Yes		Global	Yes			Yes	Yes
mysql_native_password_proxy_users	5.7.7		Yes	Yes	Yes		Global	Yes				Yes
Mysqlx_bytes_received						Yes	Both	No				Yes
Mysqlx_bytes_sent						Yes	Both	No				Yes
mysqlx_connect_timeout			Yes	Yes	Yes		Global	Yes				Yes
Mysqlx_connection_accept_errors						Yes	Both	No				Yes
Mysqlx_connection_errors						Yes	Both	No				Yes
Mysqlx_connections_accepted						Yes	Global	No				Yes
Mysqlx_connections_closed						Yes	Global	No				Yes
Mysqlx_connections_rejected						Yes	Global	No				Yes
Mysqlx_crud_delete						Yes	Both	No				Yes
Mysqlx_crud_find						Yes	Both	No				Yes
Mysqlx_crud_insert						Yes	Both	No				Yes
Mysqlx_crud_update						Yes	Both	No				Yes
Mysqlx_errors_sent						Yes	Both	No				Yes
Mysqlx_expect_close						Yes	Both	No				Yes
Mysqlx_expect_open						Yes	Both	No				Yes
mysqlx_idle_worker_thread_timeout			Yes	Yes								Yes
Mysqlx_init_error						Yes	Both	No				Yes
mysqlx_max_allowed_packet			Yes	Yes								Yes
mysqlx_max_connections			Yes	Yes	Yes		Global	Yes				Yes
mysqlx_min_worker_threads			Yes	Yes								Yes
Mysqlx_notice_other_sent						Yes	Both	No				Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Mysqlx_notice_warning_sent						Yes	Both	No				Yes
mysqlx_port			Yes	Yes	Yes		Global	Yes				Yes
Mysqlx_rows_sent						Yes	Both	No				Yes
Mysqlx_sessions						Yes	Global	No				Yes
Mysqlx_sessions_accepted						Yes	Global	No				Yes
Mysqlx_sessions_closed						Yes	Global	No				Yes
Mysqlx_sessions_fatal_error						Yes	Global	No				Yes
Mysqlx_sessions_killed						Yes	Global	No				Yes
Mysqlx_sessions_rejected						Yes	Global	No				Yes
Mysqlx_ssl_accept_renegotiates						Yes	Global	No				Yes
Mysqlx_ssl_accepts						Yes	Global	No				Yes
Mysqlx_ssl_active						Yes	Both	No				Yes
mysqlx_ssl_ca			Yes	Yes								Yes
mysqlx_ssl_capath			Yes	Yes								Yes
mysqlx_ssl_cert			Yes	Yes								Yes
Mysqlx_ssl_cipher						Yes	Both	No				Yes
mysqlx_ssl_cipher			Yes	Yes								Yes
Mysqlx_ssl_cipher_list						Yes	Both	No				Yes
mysqlx_ssl_crl			Yes	Yes								Yes
mysqlx_ssl_crlpath			Yes	Yes								Yes
Mysqlx_ssl_ctx_verify_depth						Yes	Both	No				Yes
Mysqlx_ssl_ctx_verify_mode						Yes	Both	No				Yes
Mysqlx_ssl_finished_accepts						Yes	Global	No				Yes
mysqlx_ssl_key			Yes	Yes								Yes
Mysqlx_ssl_server_not_after						Yes	Global	No				Yes
Mysqlx_ssl_server_not_before						Yes	Global	No				Yes
Mysqlx_ssl_verify_depth						Yes	Global	No				Yes
Mysqlx_ssl_verify_mode						Yes	Global	No				Yes
Mysqlx_ssl_version						Yes	Both	No				Yes
Mysqlx_stmt_create_collection						Yes	Both	No				Yes
Mysqlx_stmt_create_collection_index						Yes	Both	No				Yes
Mysqlx_stmt_disable_notices						Yes	Both	No				Yes
Mysqlx_stmt_drop_collection						Yes	Both	No				Yes
Mysqlx_stmt_drop_collection_index						Yes	Both	No				Yes
Mysqlx_stmt_enable_notices						Yes	Both	No				Yes
Mysqlx_stmt_execute_sql						Yes	Both	No				Yes
Mysqlx_stmt_execute_xplugin						Yes	Both	No				Yes
Mysqlx_stmt_kill_client						Yes	Both	No				Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Mysqlx_stmt_list_clients						Yes	Both	No				Yes
Mysqlx_stmt_list_notices						Yes	Both	No				Yes
Mysqlx_stmt_list_objects						Yes	Both	No				Yes
Mysqlx_stmt_ping						Yes	Both	No				Yes
Mysqlx_worker_threads						Yes	Global	No				Yes
Mysqlx_worker_threads_active						Yes	Global	No				Yes
named_pipe					Yes		Global	No	Yes	Yes	Yes	Yes
ndb-allow-copying-alter-table	5.7.10-ndb-7.5.0		Yes	Yes	Yes		Both	Yes				Yes
Ndb_api_bytes_received_count	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_session	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_slave	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_session	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	
Ndb_api_bytes_sent_count_slave	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_event_bytes_count	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_event_bytes_count_slave	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_event_data_count	5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_api_event_data_count_info	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_event_nondata_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_event_nondata_count_vector	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_range_scan_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_range_scan_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	
Ndb_api_range_scan_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_api_read_row_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_scan_batch_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_scan_batch_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	
Ndb_api_scan_batch_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_trans_abort_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_api_trans_close_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_trans_local_read_row_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	
Ndb_api_trans_local_read_row_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_api_uk_op_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	
Ndb_api_uk_op_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	
Ndb_api_wait_nanos_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_api_wait_scan_result_count	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_session	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Session	No	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_slave	5.1.51- ndb-7.0.22, 5.1.51- ndb-7.1.11					Yes	Global	No	Yes	Yes	Yes	Yes
ndb_autoincrement_prefetch_sz			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb-batch-size	5.1.23- ndb-6.3.8		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndb-blob-read-batch-bytes	5.1.51- ndb-7.0.21, 5.1.51- ndb-7.1.10		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb-blob-write-batch-bytes	5.1.51- ndb-7.0.21, 5.1.51- ndb-7.1.10		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_cache_check_time			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb_clear_apply_status	5.6.28- ndb-7.4.9		Yes		Yes		Global	Yes			Yes	Yes
ndb-cluster-connection-pool	5.1.19- ndb-6.2.2		Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes
ndb-cluster-connection-pool-nodeids	5.7.10- ndb-7.5.0		Yes	Yes	Yes		Global	No				Yes
Ndb_cluster_node_id						Yes	Both	No	Yes	Yes	Yes	Yes
Ndb_config_from_host	5.1.12					Yes	Both	No	Yes	Yes	Yes	Yes
Ndb_config_from_port	5.1.12					Yes	Both	No	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1					Yes	Global	No	Yes	Yes	Yes	
Ndb_conflict_fn_epoch_transaction	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	
Ndb_conflict_fn_epoch2_transaction	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_conflict_fn_max	5.1.22- ndb-6.3.3					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max_del_wis	5.6.21- ndb-7.4.1					Yes	Global	No			Yes	
Ndb_conflict_fn_old	5.1.22- ndb-6.3.4					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_conflict_last_conflict	5.6.21- ndb-7.4.2				Yes		Global	No			Yes	
Ndb_conflict_last_stable_epoch	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	
Ndb_conflict_reflected_op_order_count	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	
Ndb_conflict_reflected_op_prepare_count	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	
Ndb_conflict_refresh_op_count	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	
Ndb_conflict_trans_conflict_commit_count	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1					Yes	Global	No	Yes	Yes	Yes	
Ndb_conflict_trans_detect_count	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_conflict_trans_reject_count	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1					Yes	Global	No	Yes	Yes	Yes	
Ndb_conflict_trans_row_conflict_count	5.6.21- ndb-7.4.2					Yes	Global	No			Yes	
Ndb_conflict_trans_row_reject_count	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1					Yes	Global	No	Yes	Yes	Yes	Yes
ndb-connectstring			Yes	Yes					Yes	Yes	Yes	Yes
ndb_data_node_neighbour	5.7.12- ndb-7.5.2		Yes	Yes	Yes		Global	Yes				Yes
ndb-deferred-constraints	5.1.56- ndb-7.0.28, 5.1.56- ndb-7.1.14		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_deferred_constraints	5.1.56- ndb-7.0.28, 5.1.56- ndb-7.1.14		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
ndb-distribution	5.1.32-ndb-7.0.4		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb_distribution	5.1.32-ndb-7.0.4		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Ndb_epoch_delete_delete_count	5.6.22-ndb-7.4.2					Yes	Global	No			Yes	
ndb_eventbuffer_free_percent	5.6.22-ndb-7.4.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
ndb_eventbuffer_max_alloc	5.1.72-ndb-7.1.29, 5.5.34-ndb-7.2.14, 5.6.14-ndb-7.3.3		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Ndb_execute_count	5.1.22-ndb-6.3.6					Yes	Global	No	Yes	Yes	Yes	
ndb_extra_logging	5.1.6		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb_force_send			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_fully_replicated	5.7.12-ndb-7.5-2		Yes	Yes	Yes		Both	Yes				Yes
ndb_index_stat_cache_entries		5.1.19	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	
ndb_index_stat_enable			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_option	5.1.1.56-ndb-7.1.15, 5.5.15-ndb-7.2.1		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_update_freq		5.1.19	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	
ndb_join_pushdown	5.1.51-ndb-7.2.0				Yes		Both	Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_server	5.6.20-ndb-7.4.1					Yes	Global	No			Yes	Yes
Ndb_last_commit_epoch_session	5.6.20-ndb-7.4.1					Yes	Session	No			Yes	Yes
ndb-log-apply-status	5.1.51-ndb-7.0.21, 5.1.51-ndb-7.1.10		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndb_log_apply_status	5.1.51-ndb-7.0.21, 5.1.51-ndb-7.1.10		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndb_log_bin	5.1.6		Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_log_binlog_index	5.1.6		Yes		Yes		Global	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
ndb-log-empty-epochs	5.1.31- ndb-6.3.21, 5.1.31- ndb-6.4.1		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_epochs	5.1.31- ndb-6.3.21, 5.1.31- ndb-6.4.1		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb-log-exclusive-reads	5.6.20- ndb-7.4.1		Yes	Yes	Yes		Both	Yes			Yes	Yes
ndb_log_exclusive_reads	5.6.20- ndb-7.4.1		Yes	Yes	Yes		Both	Yes			Yes	Yes
ndb-log-orig	5.1.22- ndb-6.3.2		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndb_log_orig	5.1.22- ndb-6.3.2		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndb-log-transaction-id	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndb_log_transaction_id	5.1.56- ndb-7.1.16, 5.5.15- ndb-7.2.1				Yes		Global	No	Yes	Yes	Yes	Yes
ndb-log-update-as-write	5.1.19- ndb-6.3.0, 5.1.22- ndb-6.2.5		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	
ndb_log_updated_only	5.1.19- ndb-6.3.0		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb-mgmd-host			Yes	Yes					Yes	Yes	Yes	Yes
ndb-nodeid	5.1.15		Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_number_of_data_nodes	5.1.12					Yes	Global	No	Yes	Yes	Yes	Yes
ndb_optimization_delay	5.1.23- ndb-6.3.7				Yes		Global	Yes	Yes	Yes	Yes	Yes
ndb_optimized_node_selection			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Ndb_pruned_scan_count	5.1.34- ndb-6.3.25, 5.1.32- ndb-7.0.5					Yes	Global	No	Yes	Yes	Yes	
Ndb_pushed_queries_defined	5.1.51- ndb-7.2.0					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_pushed_queries_dropped	5.1.51- ndb-7.2.0					Yes	Global	No	Yes	Yes	Yes	

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Ndb_pushed_queries_executed	5.1.51- ndb-7.2.0					Yes	Global	No	Yes	Yes	Yes	Yes
Ndb_pushed_reads	5.1.51- ndb-7.2.0					Yes	Global	No	Yes	Yes	Yes	
ndb_read_backup	5.7.12- ndb-7.5.2		Yes	Yes	Yes		Global	Yes				Yes
ndb-recv-thread-activation-threshold	5.6.10- ndb-7.3.1		Yes	Yes							Yes	Yes
ndb-recv-thread-activation-threshold	5.6.10- ndb-7.3.1										Yes	Yes
ndb-recv-thread-cpu-mask	5.6.10- ndb-7.3.1		Yes	Yes							Yes	Yes
ndb-recv-thread-cpu-mask	5.6.10- ndb-7.3.1				Yes		Global	Yes			Yes	Yes
ndb-report-thresh-binlog_epoch_slip			Yes	Yes					Yes	Yes	Yes	Yes
ndb-report-thresh-binlog_mem_usage			Yes	Yes					Yes	Yes	Yes	Yes
Ndb_scan_count	5.1.34- ndb-6.3.25, 5.1.32- ndb-7.0.5					Yes	Global	No	Yes	Yes	Yes	Yes
ndb-show-foreign-key-mock	5.6.11- ndb-7.3.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
ndb_slave_conflict_role	5.6.20- ndb-7.4.1		Yes	Yes	Yes		Global	Yes			Yes	Yes
Ndb_slave_max_replicated_epochs	5.6.20- ndb-7.4.1				Yes		Global	No			Yes	Yes
ndb_table_no_logging	5.1.23- ndb-6.3.8				Yes		Session	Yes	Yes	Yes	Yes	Yes
ndb_table_temporary	5.1.23- ndb-6.3.8				Yes		Session	Yes	Yes	Yes	Yes	Yes
ndb-transid-mysql-connection-map	5.1.56- ndb-7.1.17, 5.5.16- ndb-7.2.2		Yes						Yes	Yes	Yes	Yes
ndb_use_copying_alter_table	5.1.12				Yes		Both	No	Yes	Yes	Yes	Yes
ndb_use_exact_count					Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_use_transactions			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_version	5.1.16- ndb-7.1.19				Yes		Global	No	Yes	Yes	Yes	Yes
ndb_version_string	5.1.16- ndb-7.1.19				Yes		Global	No	Yes	Yes	Yes	Yes
ndb-wait-connected	5.1.16- ndb-6.2.0		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes

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ndb-wait-setup	5.1.39- ndb-6.2.19, 5.1.39- ndb-6.3.28, 5.1.39- ndb-7.0.9		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ndbcluster			Yes	Yes					Yes	Yes	Yes	Yes
ndbinfo_database	5.1.41- ndb-7.1.1				Yes		Global	No	Yes	Yes	Yes	Yes
ndbinfo_max_bytes	5.1.41- ndb-7.1.1		Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_rows	5.1.41- ndb-7.1.1		Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes
ndbinfo_offline	5.1.41- ndb-7.1.1				Yes		Global	Yes	Yes	Yes	Yes	Yes
ndbinfo_show_hidden	5.1.41- ndb-7.1.1		Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes
ndbinfo_table_prefix	5.1.41- ndb-7.1.1		Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes
ndbinfo_version	5.1.41- ndb-7.1.1				Yes		Global	No	Yes	Yes	Yes	Yes
net_buffer_length			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
net_read_timeout			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
net_retry_count			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
net_write_timeout			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
new			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
ngram_token_size	5.7.6		Yes	Yes	Yes		Global	No				Yes
no-defaults			Yes						Yes	Yes	Yes	Yes
Not_flushed_delayed_rows		5.6.7				Yes	Global	No	Yes	Yes	Yes	Yes
offline_mode	5.7.5		Yes	Yes	Yes		Global	Yes				Yes
old	5.1.18		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
old-alter-table			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
old_passwords		5.7.6			Yes		Both	Yes	Yes	Yes	Yes	Yes
old-style-user-limits			Yes	Yes					Yes	Yes	Yes	Yes
one-thread			Yes	Yes					Yes	Yes	Yes	
Ongoing_anonymous_gtid_violating_transaction_count						Yes	Global	No				Yes
Ongoing_anonymous_transaction_count						Yes	Global	No				Yes
Ongoing_automatic_gtid_violating_transaction_count						Yes	Global	No				Yes
Open_files						Yes	Global	No	Yes	Yes	Yes	Yes
open-files-limit			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Open_streams						Yes	Global	No	Yes	Yes	Yes	Yes

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Open_table_definitions	5.1.3					Yes	Global	No	Yes	Yes	Yes	Yes
Open_tables						Yes	Both	No	Yes	Yes	Yes	Yes
Opened_files	5.1.21					Yes	Global	No	Yes	Yes	Yes	Yes
Opened_table_definitions	5.1.24					Yes	Both	No	Yes	Yes	Yes	Yes
Opened_tables						Yes	Both	No	Yes	Yes	Yes	Yes
optimizer_join_cache_level	5.6.1		Yes	Yes	Yes		Both	Yes			Yes	
optimizer_prune_level			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
optimizer_search_depth			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
optimizer_switch	5.1.34		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
optimizer_trace	5.6.3				Yes		Both	Yes			Yes	Yes
optimizer_trace_features	5.6.3				Yes		Both	Yes			Yes	Yes
optimizer_trace_limit	5.6.3				Yes		Both	Yes			Yes	Yes
optimizer_trace_max_mem_size	5.6.3				Yes		Both	Yes			Yes	Yes
optimizer_trace_offset	5.6.3				Yes		Both	Yes			Yes	Yes
parser_max_mem_size	5.7.12		Yes	Yes	Yes		Both	Yes				Yes
partition			Yes	Yes					Yes	Yes	Yes	Yes
performance_schema	5.5.3		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
Performance_schema_account_instances	5.6.3					Yes	Global	No			Yes	Yes
performance_schema_account_instances	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
Performance_schema_cond_classes_lost	5.5.8					Yes	Global	No		Yes	Yes	Yes
Performance_schema_cond_instances_lost	5.5.8					Yes	Global	No		Yes	Yes	Yes
performance-schema-consumer-events-stages-current	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-stages-history	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-stages-history-long	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-statements-current	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-statements-history	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-statements-history-long	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-transactions-current	5.7.3		Yes	Yes								Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
performance-schema-consumer-events-transactions-history	5.7.3		Yes	Yes								Yes
performance-schema-consumer-events-transactions-history-long	5.7.3		Yes	Yes								Yes
performance-schema-consumer-events-waits-current	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-waits-history	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-events-waits-history-long	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-global-instrumentation	5.6.4		Yes	Yes							Yes	Yes
performance-schema-consumer-statements-digest	5.6.5		Yes	Yes							Yes	Yes
performance-schema-consumer-thread-instrumentation	5.6.4		Yes	Yes							Yes	Yes
Performance_schema_digest	5.6.5					Yes	Global	No			Yes	Yes
performance_schema_digests	5.6.5		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_events_transactions_history	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_events_transactions_history-long	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_events_statements_history	5.6.3		Yes	Yes	Yes	size	Global	No			Yes	Yes
performance_schema_events_statements_history-long	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_events_transactions_history-size	5.7.3		Yes	Yes	Yes	size	Global	No				Yes
performance_schema_events_transactions_history-long-size	5.7.3		Yes	Yes	Yes		Global	No				Yes
performance_schema_events_transactions_history-size-long	5.5.3		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_events_transactions_history-size-long-2	5.5.3		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
Performance_schema_file_classes_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_file_handles_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_file_instances_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_hosts_lost	5.6.3					Yes	Global	No			Yes	Yes
performance_schema_hosts_lost	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
Performance_schema_index_statistics_lost	5.7.6					Yes	Global	No				Yes
performance-schema-instrument	5.6.4		Yes	Yes							Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Performance_schema_locker_5.5.8						Yes	Global	No		Yes	Yes	Yes
performance_schema_max_cond_5.5.3	Classes		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_cond_5.5.3	Instances		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_digest_5.6.26	Length		Yes	Yes	Yes		Global	No			Yes	Yes
	5.7.8											
performance_schema_max_file_5.5.3	Classes		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_file_5.5.3	Handles		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_file_5.5.3	Instances		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_index_5.7.6	Stat		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_memory_5.7.2	Classes		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_metadata_5.7.8	Locks		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_mutex_5.5.3	Classes		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_mutex_5.5.3	Instances		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_prepared_5.7.4	Statements		Yes	Yes	Yes	Yes	Global	No				Yes
performance_schema_max_program_5.7.2	Instances		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_rwlock_5.5.3	Classes		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_rwlock_5.5.3	Instances		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_socket_5.6.3	Classes		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_max_socket_5.6.3	Instances		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_max_sql_5.7.6	Length		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_stage_5.6.3	Classes		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_max_stage_5.6.3	Count_classes		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_max_stage_5.7.2	Count_stack		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_table_5.5.3	Handles		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_table_5.5.3	Instances		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_table_5.7.6	Lock_stat		Yes	Yes	Yes		Global	No				Yes
performance_schema_max_thread_5.5.3	Classes		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
performance_schema_max_thread_5.5.3	Instances		Yes	Yes	Yes		Global	No		Yes	Yes	Yes
Performance_schema_memory_5.7.2	Uses_lost					Yes	Global	No				Yes
Performance_schema_metadata_5.7.8	Lock_lost					Yes	Global	No				Yes
Performance_schema_mutex_c_5.5.3	Uses_lost					Yes	Global	No		Yes	Yes	Yes
Performance_schema_mutex_in_5.5.3	Uses_lost					Yes	Global	No		Yes	Yes	Yes
Performance_schema_nested_5.7.2	Element_lost					Yes	Global	No				Yes
Performance_schema_prepared_5.7.4	Statements_lost					Yes	Global	No				Yes
Performance_schema_program_5.7.2	Stat					Yes	Global	No				Yes
Performance_schema_rwlock_5.5.3	Uses_lost					Yes	Global	No		Yes	Yes	Yes
Performance_schema_rwlock_5.5.3	Uses_lost					Yes	Global	No		Yes	Yes	Yes
Performance_schema_session_5.6.6	Connect_attrs_lost					Yes	Global	No			Yes	Yes

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performance_schema_session_connect_attrs_size	5.6.6		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_setup_actors_size	5.6.1		Yes	Yes	Yes		Global	No			Yes	Yes
performance_schema_setup_objects_size	5.6.1		Yes	Yes	Yes		Global	No			Yes	Yes
Performance_schema_socket_classes_lost	5.6.3					Yes	Global	No			Yes	Yes
Performance_schema_socket_instances_lost	5.6.3					Yes	Global	No			Yes	Yes
Performance_schema_stage_classes_lost	5.6.3					Yes	Global	No			Yes	Yes
Performance_schema_statement_classes_lost	5.6.3					Yes	Global	No			Yes	Yes
Performance_schema_table_handles_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_table_instances_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_table_lock_stats_lost	5.7.6					Yes	Global	No				Yes
Performance_schema_thread_classes_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_thread_instances_lost	5.5.3					Yes	Global	No		Yes	Yes	Yes
Performance_schema_users_lost	5.6.3					Yes	Global	No			Yes	Yes
performance_schema_users_size	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
pid-file			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
plugin			Yes	Yes					Yes	Yes	Yes	Yes
plugin_dir	5.1.2		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
plugin-load	5.1.18		Yes	Yes					Yes	Yes	Yes	Yes
plugin-load-add	5.6.3		Yes	Yes							Yes	Yes
port			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
port-open-timeout	5.1.5		Yes	Yes					Yes	Yes	Yes	Yes
preload_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Prepared_stmt_count	5.1.14					Yes	Global	No	Yes	Yes	Yes	Yes
prepared_stmt_count	5.1.10				Yes		Global	No	Yes			
print-defaults			Yes						Yes	Yes	Yes	Yes
profiling	5.1.24	5.6.8			Yes		Varies	Yes	Yes	Yes	Yes	Yes
profiling_history_size	5.1.24	5.6.8	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
protocol_version					Yes		Global	No	Yes	Yes	Yes	Yes
proxy_user	5.5.7				Yes		Session	No		Yes	Yes	Yes
pseudo_slave_mode	5.5.30, 5.6.10				Yes		Session	Yes		Yes	Yes	Yes
pseudo_thread_id					Yes		Session	Yes	Yes	Yes	Yes	Yes
Qcache_free_blocks						Yes	Global	No	Yes	Yes	Yes	Yes
Qcache_free_memory						Yes	Global	No	Yes	Yes	Yes	Yes
Qcache_hits						Yes	Global	No	Yes	Yes	Yes	Yes
Qcache_inserts						Yes	Global	No	Yes	Yes	Yes	Yes
Qcache_lowmem_prunes						Yes	Global	No	Yes	Yes	Yes	Yes
Qcache_not_cached						Yes	Global	No	Yes	Yes	Yes	Yes

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Qcache_queries_in_cache						Yes	Global	No	Yes	Yes	Yes	Yes
Qcache_total_blocks						Yes	Global	No	Yes	Yes	Yes	Yes
Queries	5.1.31					Yes	Both	No	Yes	Yes	Yes	Yes
query_alloc_block_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
query_cache_limit			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
query_cache_min_res_unit			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
query_cache_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
query_cache_type			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
query_cache_wlock_invalidate			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
query_prealloc_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Questions						Yes	Both	No	Yes	Yes	Yes	Yes
rand_seed1					Yes		Session	Yes	Yes	Yes	Yes	Yes
rand_seed2					Yes		Session	Yes	Yes	Yes	Yes	Yes
range_alloc_block_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
range_optimizer_max_mem_size	5.7.9		Yes	Yes	Yes		Both	Yes				Yes
rbr_exec_mode	5.7.1				Yes		Session	Yes				Yes
read_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
read_only			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
read_rnd_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
relay-log			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
relay_log_basename	5.6.2				Yes		Global	No			Yes	Yes
relay-log-index			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
relay_log_index			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
relay-log-info-file			Yes	Yes					Yes	Yes	Yes	Yes
relay_log_info_file			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
relay-log-info-repository	5.6.2		Yes	Yes							Yes	Yes
relay_log_info_repository	5.6.2				Yes		Global	Yes			Yes	Yes
relay_log_purge			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
relay-log-recovery			Yes	Yes						Yes	Yes	Yes
relay_log_recovery			Yes	Yes	Yes		Global	Varies		Yes	Yes	Yes
relay_log_space_limit			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
remove			Yes						Yes	Yes	Yes	Yes
replicate-do-db			Yes	Yes					Yes	Yes	Yes	Yes
replicate-do-table			Yes	Yes					Yes	Yes	Yes	Yes
replicate-ignore-db			Yes	Yes					Yes	Yes	Yes	Yes
replicate-ignore-table			Yes	Yes					Yes	Yes	Yes	Yes
replicate-rewrite-db			Yes	Yes					Yes	Yes	Yes	Yes
replicate-same-server-id			Yes	Yes					Yes	Yes	Yes	Yes

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replicate-wild-do-table			Yes	Yes					Yes	Yes	Yes	Yes
replicate-wild-ignore-table			Yes	Yes					Yes	Yes	Yes	Yes
report-host			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
report-password			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
report-port			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
report-user			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
require_secure_transport	5.7.8		Yes	Yes	Yes		Global	Yes				Yes
rewriter_enabled	5.7.6				Yes		Global	Yes				Yes
Rewriter_number_loaded_rules	5.7.6					Yes	Global	No				Yes
Rewriter_number_reloads	5.7.6					Yes	Global	No				Yes
Rewriter_number_rewritten_queries	5.7.6					Yes	Global	No				Yes
Rewriter_reload_error	5.7.6					Yes	Global	No				Yes
rewriter_verbose	5.7.6				Yes		Global	Yes				Yes
rpl_recovery_rank		5.5.3, 6.0.14			Yes		Global	Yes	Yes	Yes		
Rpl_semi_sync_master_clients						Yes	Global	No		Yes	Yes	Yes
rpl_semi_sync_master_enabled					Yes		Global	Yes		Yes	Yes	Yes
Rpl_semi_sync_master_net_avg_wait_time						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_net_wait_time						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_net_waits						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_no_times						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_no_tx						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_status						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_timefunc_failures						Yes	Global	No		Yes	Yes	Yes
rpl_semi_sync_master_timeout					Yes		Global	Yes		Yes	Yes	Yes
rpl_semi_sync_master_trace_level					Yes		Global	Yes		Yes	Yes	Yes
Rpl_semi_sync_master_tx_avg_wait_time						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_tx_wait_time						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_tx_waits						Yes	Global	No		Yes	Yes	Yes
rpl_semi_sync_master_wait_no_slave	5.7.3				Yes		Global	Yes				Yes
rpl_semi_sync_master_wait_no_slave	5.7.3				Yes		Global	Yes		Yes	Yes	Yes
rpl_semi_sync_master_wait_pos_backtraverse	5.7.2				Yes		Global	Yes				Yes
Rpl_semi_sync_master_wait_sessions						Yes	Global	No		Yes	Yes	Yes
Rpl_semi_sync_master_yes_tx						Yes	Global	No		Yes	Yes	Yes
rpl_semi_sync_slave_enabled					Yes		Global	Yes		Yes	Yes	Yes
Rpl_semi_sync_slave_status						Yes	Global	No		Yes	Yes	Yes

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rpl_semi_sync_slave_trace_level					Yes		Global	Yes		Yes	Yes	Yes
Rpl_status		5.5.3, 6.0.14				Yes	Global	No	Yes	Yes		
rpl_stop_slave_timeout	5.6.13, 5.7.2		Yes	Yes	Yes		Global	Yes			Yes	Yes
Rsa_public_key	5.6.6					Yes	Global	No			Yes	Yes
safe-mode		5.5.26	Yes	Yes					Yes	Yes	Yes	
safe-show-database		4.0.2	Yes	Yes					Yes	Yes		
safe-user-create			Yes	Yes					Yes	Yes	Yes	Yes
safemalloc-mem-limit			Yes	Yes					Yes	Yes		
secure-auth		5.7.5	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
secure-file-priv	5.1.17		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Select_full_join						Yes	Both	No	Yes	Yes	Yes	Yes
Select_full_range_join						Yes	Both	No	Yes	Yes	Yes	Yes
Select_range						Yes	Both	No	Yes	Yes	Yes	Yes
Select_range_check						Yes	Both	No	Yes	Yes	Yes	Yes
Select_scan						Yes	Both	No	Yes	Yes	Yes	Yes
server-id			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
server-id-bits	5.1.47- ndb-7.0.17, 5.1.47- ndb-7.1.6		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
server_id_bits	5.1.47- ndb-7.0.17, 5.1.47- ndb-7.1.6		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
server_uuid					Yes		Global	No			Yes	Yes
session_track_gtids	5.7.6		Yes	Yes	Yes		Both	Yes				Yes
session_track_schema	5.7.4		Yes	Yes	Yes		Both	Yes				Yes
session_track_state_change	5.7.4		Yes	Yes	Yes		Both	Yes				Yes
session_track_system_variables	5.7.4		Yes	Yes	Yes		Both	Yes				Yes
set-variable		5.0.0	Yes	Yes					Yes	Yes		
sha256_password_auto_generate_rsa_keys	5.7.5		Yes	Yes	Yes		Global	No				Yes
sha256_password_private_key_path	5.6.6				Yes		Global	No			Yes	Yes
sha256_password_proxy_users	5.7.7		Yes	Yes	Yes		Global	Yes				Yes
sha256_password_public_key_path	5.6.6				Yes		Global	No			Yes	Yes
shared_memory			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
shared_memory_base_name			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
show_compatibility_56	5.7.6	5.7.6	Yes	Yes	Yes		Global	Yes				Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
show_old_temporals	5.6.24, 5.7.6	5.6.24, 5.7.6	Yes	Yes	Yes		Both	Yes			Yes	Yes
show-slave-auth-info			Yes	Yes					Yes	Yes	Yes	Yes
simplified_binlog_gtid_recovery	5.6.21, 5.7.5	5.6.23, 5.7.6	Yes	Yes	Yes		Global	No			Yes	Yes
skip-character-set-client-handshake			Yes	Yes					Yes	Yes	Yes	Yes
skip-concurrent-insert			Yes	Yes					Yes	Yes	Yes	Yes
skip-event-scheduler			Yes	Yes					Yes	Yes	Yes	Yes
skip_external_locking			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
skip-grant-tables			Yes	Yes					Yes	Yes	Yes	Yes
skip-host-cache			Yes	Yes					Yes	Yes	Yes	Yes
skip-locking		4.1.0	Yes	Yes					Yes	Yes		
skip-merge	5.1.12		Yes	Yes					Yes			
skip-name-resolve			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
skip-ndbcluster			Yes	Yes					Yes	Yes	Yes	Yes
skip-networking			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
skip-new			Yes	Yes					Yes	Yes	Yes	Yes
skip-partition			Yes	Yes					Yes	Yes	Yes	Yes
skip-safemalloc			Yes	Yes					Yes	Yes		
skip-show-database			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
skip-slave-start			Yes	Yes					Yes	Yes	Yes	Yes
skip-ssl			Yes	Yes					Yes	Yes	Yes	Yes
skip-stack-trace			Yes	Yes					Yes	Yes	Yes	Yes
skip-symbolic-links			Yes						Yes	Yes	Yes	Yes
skip-symlink			Yes	Yes					Yes	Yes		
skip-thread-priority		5.1.29	Yes	Yes					Yes	Yes	Yes	
slave_allow_batching	5.1.19- ndb-6.2.3		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
slave-checkpoint-group	5.6.3		Yes	Yes							Yes	Yes
slave_checkpoint_group	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
slave-checkpoint-period	5.6.3		Yes	Yes							Yes	Yes
slave_checkpoint_period	5.6.3		Yes	Yes	Yes		Global	Yes			Yes	Yes
slave_compressed_protocol			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
slave_exec_mode	5.1.23- ndb-6.2.14, 5.1.23- ndb-6.3.11, 5.1.24		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Slave_heartbeat_period	5.1.22-ndb-6.3.4					Yes	Global	No	Yes	Yes	Yes	Yes
Slave_last_heartbeat	5.6.1					Yes	Global	No			Yes	Yes
slave-load-tmpdir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
slave-max-allowed-packet	5.1.64, 5.5.26, 5.6.6		Yes	Yes					Yes	Yes	Yes	Yes
slave_max_allowed_packet	5.1.64, 5.5.26, 5.6.6				Yes		Global	Yes	Yes	Yes	Yes	Yes
slave-net-timeout			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Slave_open_temp_tables						Yes	Global	No	Yes	Yes	Yes	Yes
slave-parallel-type	5.7.2		Yes	Yes								Yes
slave_parallel_type	5.7.2				Yes		Global	Yes				Yes
slave-parallel-workers	5.6.3		Yes	Yes							Yes	Yes
slave_parallel_workers	5.6.3		Yes		Yes		Global	Yes			Yes	Yes
slave-pending-jobs-size-max	5.6.3		Yes								Yes	Yes
slave_pending_jobs_size_max	5.6.3				Yes		Global	Yes			Yes	Yes
slave_preserve_commit_order	5.7.5		Yes		Yes		Global	Yes				Yes
Slave_received_heartbeats	5.1.22-ndb-6.3.4					Yes	Global	No	Yes	Yes	Yes	Yes
Slave_retried_transactions						Yes	Global	No	Yes	Yes	Yes	Yes
slave-rows-search-algorithms	5.6.6		Yes	Yes							Yes	Yes
slave_rows_search_algorithm	5.6.6				Yes		Global	Yes			Yes	Yes
Slave_running						Yes	Global	No	Yes	Yes	Yes	Yes
slave-skip-errors			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
slave-sql-verify-checksum	5.6.2		Yes	Yes							Yes	Yes
slave_sql_verify_checksum	5.6.2				Yes		Global	Yes			Yes	Yes
slave_transaction_retries			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
slave_type_conversions	5.1.44-ndb-6.3.33, 5.1.44-ndb-7.0.14, 5.1.44-ndb-7.1.3, 5.5.3		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Slow_launch_threads						Yes	Both	No	Yes	Yes	Yes	Yes
slow_launch_time			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
Slow_queries						Yes	Both	No	Yes	Yes	Yes	Yes
slow-query-log	5.1.12		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
slow_query_log_file	5.1.12		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
slow-start-timeout	5.5.20, 5.6.5		Yes	Yes						Yes	Yes	Yes
socket			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
sort_buffer_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Sort_merge_passes						Yes	Both	No	Yes	Yes	Yes	Yes
Sort_range						Yes	Both	No	Yes	Yes	Yes	Yes
Sort_rows						Yes	Both	No	Yes	Yes	Yes	Yes
Sort_scan						Yes	Both	No	Yes	Yes	Yes	Yes
sporadic-binlog-dump-fail			Yes	Yes					Yes	Yes	Yes	Yes
sql_auto_is_null					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_big_selects					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_big_tables					Yes		Varies	Yes	Yes	Yes	Yes	
sql_buffer_result					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_log_bin					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_log_off					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_log_update		5.0.0			Yes		Session	Yes	Yes	Yes		
sql_low_priority_updates		4.1.0			Yes		Both	Yes	Yes	Yes	Yes	
sql_max_join_size		4.1.0			Yes		Both	Yes	Yes	Yes	Yes	
sql-mode			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
sql_notes					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_quote_show_create					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_safe_updates					Yes		Varies	Yes	Yes	Yes	Yes	Yes
sql_select_limit					Yes		Both	Yes	Yes	Yes	Yes	Yes
sql_slave_skip_counter					Yes		Global	Yes	Yes	Yes	Yes	Yes
sql_warnings					Yes		Varies	Yes	Yes	Yes	Yes	Yes
ssl			Yes	Yes					Yes	Yes	Yes	Yes
Ssl_accept_renegotiates						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_accepts						Yes	Global	No	Yes	Yes	Yes	Yes
ssl-ca	5.1.11		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Ssl_callback_cache_hits						Yes	Global	No	Yes	Yes	Yes	Yes
ssl-capath	5.1.11		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
ssl-cert	5.1.11		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Ssl_cipher						Yes	Both	No	Yes	Yes	Yes	Yes
ssl-cipher	5.1.11		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Ssl_cipher_list						Yes	Both	No	Yes	Yes	Yes	Yes
Ssl_client_connects						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_connect_renegotiates						Yes	Global	No	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
ssl-crl	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
ssl-crlpath	5.6.3		Yes	Yes	Yes		Global	No			Yes	Yes
Ssl_ctx_verify_depth						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_ctx_verify_mode						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_default_timeout						Yes	Both	No	Yes	Yes	Yes	Yes
Ssl_finished_accepts						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_finished_connects						Yes	Global	No	Yes	Yes	Yes	Yes
ssl-key	5.1.11		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Ssl_server_not_after	5.6.3					Yes	Both	No			Yes	Yes
Ssl_server_not_before	5.6.3					Yes	Both	No			Yes	Yes
Ssl_session_cache_hits						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_session_cache_misses						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_session_cache_mode						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_session_cache_overflows						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_session_cache_size						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_session_cache_timeouts						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_sessions_reused						Yes	Both	No	Yes	Yes	Yes	Yes
Ssl_used_session_cache_entries						Yes	Global	No	Yes	Yes	Yes	Yes
Ssl_verify_depth						Yes	Both	No	Yes	Yes	Yes	Yes
Ssl_verify_mode						Yes	Both	No	Yes	Yes	Yes	Yes
Ssl_version						Yes	Both	No	Yes	Yes	Yes	Yes
standalone			Yes	Yes					Yes	Yes	Yes	Yes
storage_engine					Yes		Both	Yes	Yes	Yes	Yes	Yes
stored_program_cache	5.5.21, 5.6.5		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
super-large-pages	5.5.3		Yes	Yes						Yes	Yes	Yes
super_read_only	5.7.8		Yes	Yes	Yes		Global	Yes				Yes
symbolic-links			Yes	Yes					Yes	Yes	Yes	Yes
sync_binlog			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
sync_frm		5.7.6	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
sync_master_info			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
sync_relay_log			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
sync_relay_log_info			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes
sysdate-is-now	5.1.8		Yes	Yes					Yes	Yes	Yes	Yes
system_time_zone					Yes		Global	No	Yes	Yes	Yes	Yes
table_cache		5.1.3	Yes	Yes	Yes		Global	Yes	Yes			
table_definition_cache	5.1.3				Yes		Global	Yes	Yes	Yes	Yes	Yes
table_lock_wait_timeout			Yes	Yes	Yes		Global	Yes	Yes	Yes		

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
Table_locks_immediate						Yes	Global	No	Yes	Yes	Yes	Yes
Table_locks_waited						Yes	Global	No	Yes	Yes	Yes	Yes
table_open_cache	5.1.3				Yes		Global	Yes	Yes	Yes	Yes	Yes
Table_open_cache_hits	5.6.6					Yes	Both	No			Yes	Yes
table_open_cache_instances	5.6.6				Yes		Global	No			Yes	Yes
Table_open_cache_misses	5.6.6					Yes	Both	No			Yes	Yes
Table_open_cache_overflows	5.6.6					Yes	Both	No			Yes	Yes
table_type		5.2.5			Yes		Both	Yes	Yes	Yes		
tc-heuristic-recover			Yes	Yes					Yes	Yes	Yes	Yes
Tc_log_max_pages_used						Yes	Global	No	Yes	Yes	Yes	Yes
Tc_log_page_size						Yes	Global	No	Yes	Yes	Yes	Yes
Tc_log_page_waits						Yes	Global	No	Yes	Yes	Yes	Yes
temp-pool			Yes	Yes					Yes	Yes	Yes	Yes
thread_cache_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
thread_concurrency		5.6.1	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
thread_handling	5.1.17		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
thread_pool_algorithm	5.5.16, 5.6.10		Yes	Yes	Yes		Global	No		Yes	Yes	
thread_pool_high_priority_connection	5.5.16, 5.6.10		Yes	Yes	Yes		Both	Yes		Yes	Yes	
thread_pool_max_unused_threads	5.5.16, 5.6.10		Yes	Yes	Yes		Global	Yes		Yes	Yes	
thread_pool_prio_kickup_timeout	5.5.16, 5.6.10		Yes	Yes	Yes		Both	Yes		Yes	Yes	
thread_pool_size	5.5.16, 5.6.10		Yes	Yes	Yes		Global	No		Yes	Yes	
thread_pool_stall_limit	5.5.16, 5.6.10		Yes	Yes	Yes		Global	Yes		Yes	Yes	
thread_stack			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
Threads_cached						Yes	Global	No	Yes	Yes	Yes	Yes
Threads_connected						Yes	Global	No	Yes	Yes	Yes	Yes
Threads_created						Yes	Global	No	Yes	Yes	Yes	Yes
Threads_running						Yes	Global	No	Yes	Yes	Yes	Yes
time_format					Yes		Varies	No	Yes	Yes	Yes	Yes
time_zone					Yes		Both	Yes	Yes	Yes	Yes	Yes
timed_mutexes		5.5.39, 5.6.20	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes
timestamp					Yes		Session	Yes	Yes	Yes	Yes	Yes
tls_version	5.7.10		Yes	Yes	Yes		Global	No				Yes
tmp_table_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
tmpdir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes
transaction_alloc_block_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
transaction_allow_batching	5.1.23- ndb-6.3.7				Yes		Session	Yes	Yes	Yes	Yes	Yes
transaction-isolation			Yes	Yes					Yes	Yes	Yes	Yes
transaction_prealloc_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
transaction-read-only	5.6.5		Yes	Yes							Yes	Yes
transaction_write_set_extents	5.7.6 on 5.7.6		Yes		Yes		Both	Yes				Yes
tx_isolation					Yes		Both	Yes	Yes	Yes	Yes	Yes
tx_read_only	5.6.5				Yes		Both	Yes			Yes	Yes
unique_checks					Yes		Varies	Yes	Yes	Yes	Yes	Yes
updatable_views_with_limit			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes
Uptime						Yes	Global	No	Yes	Yes	Yes	Yes
Uptime_since_flush_status	5.1.23- ndb-6.2.14, 5.1.24					Yes	Global	No	Yes	Yes	Yes	Yes
use-symbolic-links		5.0.0	Yes	Yes					Yes			
user			Yes	Yes					Yes	Yes	Yes	Yes
validate-password	5.6.6		Yes	Yes							Yes	Yes
validate_password_dictionary_file	5.6.6				Yes		Global	Varies			Yes	Yes
validate_password_dictionary_file_last_parsed	5.6.26, 5.7.8					Yes	Global	No			Yes	Yes
validate_password_dictionary_file_words_count	5.6.26, 5.7.8					Yes	Global	No			Yes	Yes
validate_password_length	5.6.6				Yes		Global	Yes			Yes	Yes
validate_password_mixed_case_count	5.6.6				Yes		Global	Yes			Yes	Yes
validate_password_number_count	5.6.6				Yes		Global	Yes			Yes	Yes
validate_password_policy	5.6.6				Yes		Global	Yes			Yes	Yes
validate_password_special_char_count	5.6.6				Yes		Global	Yes			Yes	Yes
validate_user_plugins	5.1.1, 5.6.11				Yes		Global	No			Yes	Yes
verbose			Yes	Yes					Yes	Yes	Yes	Yes
version					Yes		Global	No	Yes	Yes	Yes	Yes
version_comment					Yes		Global	No	Yes	Yes	Yes	Yes
version_compile_machine					Yes		Global	No	Yes	Yes	Yes	Yes
version_compile_os					Yes		Global	No	Yes	Yes	Yes	Yes
version_tokens_session	5.7.8		Yes	Yes	Yes		Both	Yes				Yes
version_tokens_session_number	5.7.8		Yes	Yes	Yes		Both	No				Yes
wait_timeout			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	CmdCnf	Srvr	Stat	Scope	Dyn	5.1	5.5	5.6	5.7
<code>warning_count</code>				Yes		Session	No	Yes	Yes	Yes	Yes

1.1 Option/Variable Changes for `mysqld` 5.1

The list below details the changes in specific options/variables within MySQL 5.1

- **`bdb-data-direct`**

Introduced in version 5.1.4

- **`bdb-log-direct`**

Introduced in version 5.1.4

- **`binlog_direct_non_transactional_updates`**

Introduced in version 5.1.44

- **`binlog-format`**

Introduced in version 5.1.5

Value parameter changes in version 5.1.8:

- Default is STATEMENT

Value parameter changes in version 5.1.12:

- Default is MIXED

Value parameter changes in version 5.1.29:

- Default is STATEMENT

Value parameter changes in version 5.1.14-ndb-6.1.0:

- Default is MIXED

Value parameter changes in version 5.1.16-ndb-6.2.0:

- Default is MIXED

Value parameter changes in version 5.1.19-ndb-6.3.0:

- Default is MIXED

Value parameter changes in version 5.1.32-ndb-7.0.4:

- Default is MIXED

Value parameter changes in version 5.1.39-ndb-7.1.0:

- Default is MIXED

- **`binlog-row-event-max-size`**

Introduced in version 5.1.5

- **`character-set-filesystem`**

Introduced in version 5.1.6

- **`Com_call_procedure`**

Introduced in version 5.1.19

- **`Com_show_logs`**

Removed in version 5.1.3

- **`Com_show_profile`**

Introduced in version 5.1.24

- **`Com_show_profiles`**

Introduced in version 5.1.24

- **`Com_stmt_reprepare`**

Introduced in version 5.1.25

- **`connect_timeout`**

Value parameter changes in version 5.1.23:

- Default is 10, minimum is 2, maximum is 31536000

- **`debug_sync`**

Introduced in version 5.1.41

- **`debug-sync-timeout`**

Introduced in version 5.1.41

- **`enable-pstack`**

Deprecated in version 5.1.54

- **`event-scheduler`**

Introduced in version 5.1.6

- **`federated`**

Introduced in version 5.1.26

- **`general-log`**

Introduced in version 5.1.12

- **`general_log_file`**

Introduced in version 5.1.12

- **`have_archive`**

Removed in version 5.1.14

- **`have_blackhole_engine`**

Removed in version 5.1.14

- **`have_community_features`**

Introduced in version 5.1.24

- **`have_dynamic_loading`**

Introduced in version 5.1.10

- **`have_example_engine`**

Removed in version 5.1.14

- **`have_federated_engine`**

Removed in version 5.1.14

- **`have_isam`**

Removed in version 5.1.7

- **`have_merge_engine`**

Removed in version 5.1.3

- **`have_partition_engine`**

Introduced in version 5.1.1

Deprecated in version 5.1.6 and replaced with `have_partitioning`

- **`have_partitioning`**

Introduced in version 5.1.6

- **`have_raid`**

Removed in version 5.1.7

- **`have_row_based_replication`**

Introduced in version 5.1.5

Removed in version 5.1.15

- **`have_ssl`**

Introduced in version 5.1.17

- **`hostname`**

Introduced in version 5.1.17

- **`ignore-builtin-innodb`**

Introduced in version 5.1.33

- **`innodb`**

Value parameter changes in version 5.1.36:

- Default is ON

- **`innodb_adaptive_flushing`**

Introduced in version 5.1.38

- **`innodb_adaptive_hash_index`**

Introduced in version 5.1.24

- **`innodb_autoinc_lock_mode`**

Introduced in version 5.1.22

- **`innodb_buffer_pool_ave_mem_mb`**

Removed in version 5.1.13

- **`Innodb_buffer_pool_read_ahead`**

Introduced in version 5.1.42

- **`Innodb_buffer_pool_read_ahead_evicted`**

Introduced in version 5.1.42

- **`innodb_buffer_pool_size`**

Value parameter changes in version 5.1.28:

- Default is 134217728, minimum is 1048576, maximum is $2^{32}-1$

Value parameter changes in version 5.1.28:

- Default is 134217728, minimum is 1048576, maximum is $2^{64}-1$

- **`innodb_change_buffering`**

Introduced in version 5.1.38

- **`innodb_change_buffering_debug`**

Introduced in version 5.1.53

- **`innodb_file_format`**

Introduced in version 5.1.38

- **`innodb_file_format_check`**

Introduced in version 5.1.38

Value parameter changes in version 5.1.42:

- Default is Barracuda
- **`innodb_flush_method`**
Value parameter changes in version 5.1.24:
 - Default is NULL
- **`Innodb_have_atomic_builtins`**
Introduced in version 5.1.38
- **`innodb_io_capacity`**
Introduced in version 5.1.38
- **`innodb_limit_optimistic_insert_debug`**
Introduced in version 5.1.68
- **`innodb_log_arch_dir`**
Removed in version 5.1.21
- **`innodb_log_archive`**
Removed in version 5.1.18
- **`innodb_old_blocks_pct`**
Introduced in version 5.1.41
- **`innodb_old_blocks_time`**
Introduced in version 5.1.41
- **`innodb_random_read_ahead`**
Introduced in version 5.1.59
- **`innodb_read_ahead_threshold`**
Introduced in version 5.1.38
- **`innodb_read_io_threads`**
Introduced in version 5.1.38
- **`innodb_replication_delay`**
Introduced in version 5.1.38
- **`innodb_rollback_on_timeout`**
Introduced in version 5.1.15
- **`innodb_spin_wait_delay`**
Introduced in version 5.1.38

- **`innodb_stats_method`**

Introduced in version 5.1.56

- **`innodb_stats_on_metadata`**

Introduced in version 5.1.17

- **`innodb_stats_sample_pages`**

Introduced in version 5.1.38

- **`innodb_strict_mode`**

Introduced in version 5.1.38

- **`innodb_trx_purge_view_update_only_debug`**

Introduced in version 5.1.68

- **`innodb_trx_rseg_n_slots_debug`**

Introduced in version 5.1.62

- **`innodb_use_legacy_cardinality_algorithm`**

Introduced in version 5.1.35

- **`innodb_use_sys_malloc`**

Introduced in version 5.1.38

- **`innodb_version`**

Introduced in version 5.1.38

- **`innodb_write_io_threads`**

Introduced in version 5.1.38

- **`join_buffer_size`**

Value parameter changes in version 5.1.23:

- Default is 131072, minimum is 8200, maximum is 4294967295

Value parameter changes in version 5.1.23:

- Default is 131072, minimum is 8228, maximum is 4294967295

Value parameter changes in version 5.1.23:

- Default is 131072, minimum is 8200, maximum is 4294967295

Value parameter changes in version 5.1.23:

- Default is 131072, minimum is 8228, maximum is 18446744073709547520

- **`keep_files_on_create`**

Introduced in version 5.1.21

- [key_buffer_size](#)

Value parameter changes in version 5.1.23:

- Default is 8388608, minimum is 8, maximum is 4294967295

Value parameter changes in version 5.1.23:

- Default is 8388608, minimum is 8, maximum is OS_PER_PROCESS_LIMIT

- [lc_time_names](#)

Introduced in version 5.1.12

- [log](#)

Deprecated in version 5.1.29 and replaced with [general-log](#)

- [log-bin-use-v1-row-events](#)

Introduced in version 5.1.56-ndb-7-0-27, 5.1.56-ndb-7.1.16

- [log_bin_use_v1_row_events](#)

Introduced in version 5.1.56-ndb-7-0-27, 5.1.56-ndb-7.1.16

- [log-output](#)

Introduced in version 5.1.6

- [log-slow-queries](#)

Deprecated in version 5.1.29 and replaced with [slow-query-log](#)

- [log-slow-slave-statements](#)

Introduced in version 5.1.21

- [master-connect-retry](#)

Deprecated in version 5.1.17

- [master-host](#)

Deprecated in version 5.1.17

- [master-password](#)

Deprecated in version 5.1.17

- [master-port](#)

Deprecated in version 5.1.17

- [master-ssl](#)

Deprecated in version 5.1.17

- **`master-ssl-ca`**
Deprecated in version 5.1.17
- **`master-ssl-capath`**
Deprecated in version 5.1.17
- **`master-ssl-cert`**
Deprecated in version 5.1.17
- **`master-ssl-cipher`**
Deprecated in version 5.1.17
- **`master-ssl-key`**
Deprecated in version 5.1.17
- **`master-user`**
Deprecated in version 5.1.17
- **`max_binlog_cache_size`**
Value parameter changes in version 5.1.36:
 - Default is 18446744073709547520, minimum is 4096, maximum is 18446744073709547520
- **`max_connections`**
Value parameter changes in version 5.1.15:
 - Default is 151, minimum is 1, maximum is 16384
Value parameter changes in version 5.1.17:
 - Default is 151, minimum is 1, maximum is 100000
- **`max_long_data_size`**
Introduced in version 5.1.57
Deprecated in version 5.1.57
- **`max_prepared_stmt_count`**
Introduced in version 5.1.10
- **`merge`**
Introduced in version 5.1.12
Removed in version 5.1.14
- **`min-examined-row-limit`**
Introduced in version 5.1.21

- **`myisam_mmap_size`**

Introduced in version 5.1.43

- **`myisam_use_mmap`**

Introduced in version 5.1.4

- **`Ndb_api_bytes_received_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_bytes_received_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_bytes_received_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_bytes_sent_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_bytes_sent_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_bytes_sent_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_event_bytes_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_event_bytes_count_injector`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_event_data_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_event_data_count_injector`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_event_nondata_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_event_nondata_count_injector`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_pk_op_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_pk_op_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_pk_op_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_pruned_scan_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_pruned_scan_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_pruned_scan_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_range_scan_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_range_scan_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_range_scan_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_read_row_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_read_row_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_read_row_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_scan_batch_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_scan_batch_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_scan_batch_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_table_scan_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_table_scan_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_table_scan_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_abort_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_abort_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_abort_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_close_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_close_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_close_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_commit_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_commit_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_commit_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_local_read_row_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_local_read_row_count_session`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_local_read_row_count_slave`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11
- **`Ndb_api_trans_start_count`**
Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_trans_start_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_trans_start_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_uk_op_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_uk_op_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_uk_op_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_exec_complete_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_exec_complete_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_exec_complete_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_meta_request_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_meta_request_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_meta_request_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_nanos_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_nanos_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_nanos_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_scan_result_count`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_scan_result_count_session`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`Ndb_api_wait_scan_result_count_slave`**

Introduced in version 5.1.51-ndb-7.0.22, 5.1.51-ndb-7.1.11

- **`ndb_autoincrement_prefetch_sz`**

Value parameter changes in version 5.1.1:

- Default is 32, minimum is 1, maximum is 256

Value parameter changes in version 5.1.23:

- Default is 1, minimum is 1, maximum is 256

Value parameter changes in version 5.1.16-ndb-6.2.0:

- Default is 32, minimum is 1, maximum is 256

Value parameter changes in version 5.1.23-ndb-6.2.10:

- Default is 1, minimum is 1, maximum is 256

Value parameter changes in version 5.1.19-ndb-6.3.0:

- Default is 32, minimum is 1, maximum is 256

Value parameter changes in version 5.1.23-ndb-6.3.7:

- Default is 1, minimum is 1, maximum is 256

Value parameter changes in version 5.1.41-ndb-6.3.31:

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

Value parameter changes in version 5.1.30-ndb-6.4.0:

- Default is 32, minimum is 1, maximum is 256

Value parameter changes in version 5.1.41-ndb-7.0.11:

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

- **`ndb-batch-size`**

Introduced in version 5.1.23-ndb-6.3.8

- **`ndb-blob-read-batch-bytes`**

Introduced in version 5.1.51-ndb-7.0.21, 5.1.51-ndb-7.1.10

- **`ndb-blob-write-batch-bytes`**

Introduced in version 5.1.51-ndb-7.0.21, 5.1.51-ndb-7.1.10

- **`ndb-cluster-connection-pool`**

Introduced in version 5.1.19-ndb-6.2.2

- **`Ndb_config_from_host`**

Introduced in version 5.1.12

- **`Ndb_config_from_port`**

Introduced in version 5.1.12

- **`Ndb_conflict_fn_epoch`**

Introduced in version 5.1.56-ndb-7.1.16

- **`Ndb_conflict_fn_epoch_trans`**

Introduced in version 5.1.56-ndb-7.1.16

- **`Ndb_conflict_fn_max`**

Introduced in version 5.1.22-ndb-6.3.3

- **`Ndb_conflict_fn_old`**

Introduced in version 5.1.22-ndb-6.3.4

- **`Ndb_conflict_trans_conflict_commit_count`**

Introduced in version 5.1.56-ndb-7.1.16

- **`Ndb_conflict_trans_detect_iter_count`**

Introduced in version 5.1.56-ndb-7.1.16

- **`Ndb_conflict_trans_reject_count`**

Introduced in version 5.1.56-ndb-7.1.16

- **`Ndb_conflict_trans_row_reject_count`**

Introduced in version 5.1.56-ndb-7.1.16

- **`ndb-deferred-constraints`**

Introduced in version 5.1.56-ndb-7.0.28, 5.1.56-ndb-7.1.14

- **`ndb_deferred_constraints`**

Introduced in version 5.1.56-ndb-7.0.28, 5.1.56-ndb-7.1.14

- **`ndb-distribution`**

Introduced in version 5.1.32-ndb-7.0.4

- **`ndb_distribution`**

Introduced in version 5.1.32-ndb-7.0.4

- **`ndb_eventbuffer_max_alloc`**

Introduced in version 5.1.72-ndb-7.1.29

- **`Ndb_execute_count`**

Introduced in version 5.1.22-ndb-6.3.6

- **`ndb_extra_logging`**

Introduced in version 5.1.6

Value parameter changes in version 5.1.19-ndb-6.3.0:

- Default is 1, minimum is not specified, maximum is not specified

- **`ndb_index_stat_cache_entries`**

Removed in version 5.1.73-ndb-7.1.31

Deprecated in version 5.1.19

- **`ndb_index_stat_option`**

Introduced in version 5.1.1.56-ndb-7.1.15

Value parameter changes in version 5.1.56-ndb-7.1.17:

- Default is `loop_checkon=1000ms,loop_idle=1000ms,loop_busy=100ms,update_batch=1,read_batch=4,idle_batch=32,check_batch=32,check_delay=1m,delete_batch=8,clean_delay=0,error_batch=4,error_delay=1m,evict_batch=8,evict_delay=1m,cache_limit=32M,cache_lowpct=90`

- **`ndb_index_stat_update_freq`**

Removed in version 5.1.73-ndb-7.1.31

Deprecated in version 5.1.19

- **`ndb_join_pushdown`**

Introduced in version 5.1.51-ndb-7.2.0

- **`ndb-log-apply-status`**

Introduced in version 5.1.51-ndb-7.0.21, 5.1.51-ndb-7.1.10

- **`ndb_log_apply_status`**

Introduced in version 5.1.51-ndb-7.0.21, 5.1.51-ndb-7.1.10

- **`ndb_log_bin`**

Introduced in version 5.1.6

- **`ndb_log_binlog_index`**

Introduced in version 5.1.6

- **`ndb-log-empty-epochs`**

Introduced in version 5.1.31-ndb-6.3.21, 5.1.31-ndb-6.4.1

- **`ndb_log_empty_epochs`**

Introduced in version 5.1.31-ndb-6.3.21, 5.1.31-ndb-6.4.1

- **`ndb-log-orig`**

Introduced in version 5.1.22-ndb-6.3.2

- **`ndb_log_orig`**

Introduced in version 5.1.22-ndb-6.3.2

- **`ndb-log-transaction-id`**

Introduced in version 5.1.56-ndb-7.1.16

- **`ndb_log_transaction_id`**

Introduced in version 5.1.56-ndb-7.1.16

- **`ndb-log-update-as-write`**

Introduced in version 5.1.19-ndb-6.3.0, 5.1.22-ndb-6.2.5

- **`ndb_log_updated_only`**

Introduced in version 5.1.19-ndb-6.3.0

- **`ndb-nodeid`**

Introduced in version 5.1.15

- **`Ndb_number_of_data_nodes`**

Introduced in version 5.1.12

- **`ndb_optimization_delay`**

Introduced in version 5.1.23-ndb-6.3.7

- **`ndb_optimized_node_selection`**

Value parameter changes in version 5.1.22-ndb-6.3.4:

- Default is 3, minimum is not specified, maximum is 3

- **`Ndb_pruned_scan_count`**

Introduced in version 5.1.34-ndb-6.3.25, 5.1.32-ndb-7.0.5

- **`Ndb_pushed_queries_defined`**

Introduced in version 5.1.51-ndb-7.2.0

- **`Ndb_pushed_queries_dropped`**

Introduced in version 5.1.51-ndb-7.2.0

- **`Ndb_pushed_queries_executed`**
Introduced in version 5.1.51-ndb-7.2.0
- **`Ndb_pushed_reads`**
Introduced in version 5.1.51-ndb-7.2.0
- **`Ndb_scan_count`**
Introduced in version 5.1.34-ndb-6.3.25, 5.1.32-ndb-7.0.5
- **`ndb_table_no_logging`**
Introduced in version 5.1.23-ndb-6.3.8
- **`ndb_table_temporary`**
Introduced in version 5.1.23-ndb-6.3.8
- **`ndb-transid-mysql-connection-map`**
Introduced in version 5.1.56-ndb-7.1.17
- **`ndb_use_copying_alter_table`**
Introduced in version 5.1.12
- **`ndb_use_exact_count`**
Value parameter changes in version 5.1.47-ndb-7.1.8:
 - Default is OFF
- **`ndb_version`**
Introduced in version 5.1.16-ndb-7.1.19
- **`ndb_version_string`**
Introduced in version 5.1.16-ndb-7.1.19
- **`ndb-wait-connected`**
Introduced in version 5.1.16-ndb-6.2.0
Value parameter changes in version 5.1.56-ndb-7.1.16, 5.1.56-ndb-7.0.27:
 - Default is 30, minimum is not specified, maximum is 31536000
- **`ndb-wait-setup`**
Introduced in version 5.1.39-ndb-6.2.19, 5.1.39-ndb-6.3.28, 5.1.39-ndb-7.0.9
Value parameter changes in version 5.1.56-ndb-7.0.27, 5.1.56-ndb-7.1.16:
 - Default is 30, minimum is not specified, maximum is 31536000
- **`ndbinfo_database`**

Introduced in version 5.1.41-ndb-7.1.1

- **`ndbinfo_max_bytes`**

Introduced in version 5.1.41-ndb-7.1.1

- **`ndbinfo_max_rows`**

Introduced in version 5.1.41-ndb-7.1.1

- **`ndbinfo_offline`**

Introduced in version 5.1.41-ndb-7.1.1

- **`ndbinfo_show_hidden`**

Introduced in version 5.1.41-ndb-7.1.1

- **`ndbinfo_table_prefix`**

Introduced in version 5.1.41-ndb-7.1.1

- **`ndbinfo_version`**

Introduced in version 5.1.41-ndb-7.1.1

- **`old`**

Introduced in version 5.1.18

- **`Open_table_definitions`**

Introduced in version 5.1.3

- **`Opened_files`**

Introduced in version 5.1.21

- **`Opened_table_definitions`**

Introduced in version 5.1.24

- **`optimizer_switch`**

Introduced in version 5.1.34

- **`plugin_dir`**

Introduced in version 5.1.2

- **`plugin-load`**

Introduced in version 5.1.18

- **`port-open-timeout`**

Introduced in version 5.1.5

- **`Prepared_stmt_count`**

Introduced in version 5.1.14

- `prepared_stmt_count`

Introduced in version 5.1.10

Removed in version 5.1.13

- `profiling`

Introduced in version 5.1.24

- `profiling_history_size`

Introduced in version 5.1.24

- `Queries`

Introduced in version 5.1.31

- `secure-file-priv`

Introduced in version 5.1.17

- `server-id-bits`

Introduced in version 5.1.47-ndb-7.0.17, 5.1.47-ndb-7.1.6

- `server_id_bits`

Introduced in version 5.1.47-ndb-7.0.17, 5.1.47-ndb-7.1.6

- `skip-merge`

Introduced in version 5.1.12

Removed in version 5.1.14

- `skip-thread-priority`

Deprecated in version 5.1.29

- `slave_allow_batching`

Introduced in version 5.1.19-ndb-6.2.3

- `slave_exec_mode`

Introduced in version 5.1.23-ndb-6.2.14, 5.1.23-ndb-6.3.11, 5.1.24

- `Slave_heartbeat_period`

Introduced in version 5.1.22-ndb-6.3.4

- `slave-max-allowed-packet`

Introduced in version 5.1.64

- `slave_max_allowed_packet`

Introduced in version 5.1.64

- **`Slave_received_heartbeats`**

Introduced in version 5.1.22-ndb-6.3.4

- **`slave-skip-errors`**

Value parameter changes in version 5.1.61-ndb-7.0.33,5.1.61-ndb-7.1.22:

- Default is OFF

- **`slave_type_conversions`**

Introduced in version 5.1.44-ndb-6.3.33, 5.1.44-ndb-7.0.14, 5.1.44-ndb-7.1.3

- **`slow-query-log`**

Introduced in version 5.1.12

- **`slow_query_log_file`**

Introduced in version 5.1.12

- **`sort_buffer_size`**

Value parameter changes in version 5.1.23:

- Default is 2097144, minimum is 32768, maximum is 4294967295

Value parameter changes in version 5.1.23:

- Default is 2097144, minimum is 32768, maximum is 4294967295

Value parameter changes in version 5.1.23:

- Default is 2097144, minimum is 32768, maximum is 18446744073709551615

- **`ssl-ca`**

Introduced in version 5.1.11

- **`ssl-capath`**

Introduced in version 5.1.11

- **`ssl-cert`**

Introduced in version 5.1.11

- **`ssl-cipher`**

Introduced in version 5.1.11

- **`ssl-key`**

Introduced in version 5.1.11

- **`sysdate-is-now`**

Introduced in version 5.1.8

- `table_cache`

Removed in version 5.1.3

Deprecated in version 5.1.3 and replaced with `table_open_cache`

- `table_definition_cache`

Introduced in version 5.1.3

Value parameter changes in version 5.1.25:

- Default is 256, minimum is 256, maximum is 524288

- `table_open_cache`

Introduced in version 5.1.3

- `thread_handling`

Introduced in version 5.1.17

- `tmp_table_size`

Value parameter changes in version 5.1.12:

- Default is 16777216, minimum is 1024, maximum is 4294967295

Value parameter changes in version 5.1.37:

- Default is 16777216, minimum is 1024, maximum is 9223372036854775807

Value parameter changes in version 5.1.56:

- Default is 16777216, minimum is 1024, maximum is 18446744073709551615

- `transaction_allow_batching`

Introduced in version 5.1.23-ndb-6.3.7

- `Uptime_since_flush_status`

Introduced in version 5.1.23-ndb-6.2.14, 5.1.24

- `validate_user_plugins`

Introduced in version 5.1.1

1.2 Option/Variable Changes for `mysqld` 5.5

The list below details the changes in specific options/variables within MySQL 5.5

- `audit-log`

Introduced in version 5.5.28

- `audit_log_buffer_size`

Introduced in version 5.5.28

- **`audit_log_file`**

Introduced in version 5.5.28

- **`audit_log_flush`**

Introduced in version 5.5.28

- **`audit_log_format`**

Introduced in version 5.5.34

- **`audit_log_policy`**

Introduced in version 5.5.28

- **`audit_log_rotate_on_size`**

Introduced in version 5.5.28

- **`audit_log_strategy`**

Introduced in version 5.5.28

- **`authentication_windows_log_level`**

Introduced in version 5.5.16

- **`authentication_windows_use_principal_name`**

Introduced in version 5.5.16

- **`binlog_cache_size`**

Value parameter changes in version 5.5.3:

- Default is 32768, minimum is 4096, maximum is 18446744073709551615

- **`binlog_direct_non_transactional_updates`**

Introduced in version 5.5.2

- **`binlog-format`**

Value parameter changes in version 5.5.15-ndb-7.2.1:

- Default is STATEMENT

Value parameter changes in version 5.5.31-ndb-7.2.13:

- Default is MIXED

- **`binlog-row-event-max-size`**

Value parameter changes in version 5.5.3:

- Default is 1024, minimum is 256, maximum is 18446744073709551615

- **`Binlog_stmt_cache_disk_use`**

Introduced in version 5.5.9

- **`binlog_stmt_cache_size`**

Introduced in version 5.5.9

- **`Binlog_stmt_cache_use`**

Introduced in version 5.5.9

- **`bulk_insert_buffer_size`**

Value parameter changes in version 5.5.3:

- Default is 8388608, minimum is not specified, maximum is 18446744073709551615

- **`completion_type`**

Value parameter changes in version 5.5.3:

- Default is NO_CHAIN

- **`concurrent_insert`**

Value parameter changes in version 5.5.3:

- Default is AUTO

- **`default-character-set`**

Removed in version 5.5.3

- **`default-storage-engine`**

Value parameter changes in version 5.5.5:

- Default is InnoDB

- **`delayed_insert_limit`**

Value parameter changes in version 5.5.3:

- Default is 100, minimum is 1, maximum is 18446744073709551615

- **`delayed_queue_size`**

Value parameter changes in version 5.5.3:

- Default is 1000, minimum is 1, maximum is 18446744073709551615

- **`enable-locking`**

Removed in version 5.5.3

- **`enable-pstack`**

Removed in version 5.5.7

- **`engine-condition-pushdown`**
Deprecated in version 5.5.3 and replaced with `optimizer_switch`
- **`external_user`**
Introduced in version 5.5.7
- **`group_concat_max_len`**
Value parameter changes in version 5.5.3:
 - Default is 1024, minimum is 4, maximum is 18446744073709551615
- **`Handler_read_last`**
Introduced in version 5.5.7
- **`ignore-builtin-innodb`**
Deprecated in version 5.5.22
- **`init-rpl-role`**
Deprecated in version 5.5.3
- **`Innodb_buffer_pool_bytes_data`**
Introduced in version 5.5.30
- **`Innodb_buffer_pool_bytes_dirty`**
Introduced in version 5.5.30
- **`innodb_buffer_pool_instances`**
Introduced in version 5.5.4
- **`innodb_change_buffering`**
Value parameter changes in version 5.5.4:
 - Default is all
- **`innodb_file_format`**
Value parameter changes in version 5.5.7:
 - Default is Antelope
- **`innodb_file_format_check`**
Value parameter changes in version 5.5.1:
 - Default is Barracuda
Value parameter changes in version 5.5.5:
 - Default is ON

- **`innodb_file_format_max`**
Introduced in version 5.5.5
- **`innodb_file_io_threads`**
Removed in version 5.5.0
- **`innodb_file_per_table`**
Value parameter changes in version 5.5.7:
 - Default is OFF
- **`innodb_force_load_corrupted`**
Introduced in version 5.5.18
- **`innodb_large_prefix`**
Introduced in version 5.5.14
- **`innodb_print_all_deadlocks`**
Introduced in version 5.5.30
- **`innodb_purge_batch_size`**
Introduced in version 5.5.4
- **`innodb_purge_threads`**
Introduced in version 5.5.4
- **`innodb_random_read_ahead`**
Introduced in version 5.5.16
- **`innodb_rollback_segments`**
Introduced in version 5.5.11
- **`innodb_stats_method`**
Introduced in version 5.5.10
- **`innodb_stats_on_metadata`**
Introduced in version 5.5.4
- **`innodb_thread_sleep_delay`**
Value parameter changes in version 5.5.37:
 - Default is 10000, minimum is not specified, maximum is 1000000
- **`Innodb_truncated_status_writes`**
Introduced in version 5.5.7

- **`innodb_use_native_aio`**

Introduced in version 5.5.4

- **`join_buffer_size`**

Value parameter changes in version 5.5.3:

- Default is 131072, minimum is 128, maximum is 4294967295

Value parameter changes in version 5.5.3:

- Default is 131072, minimum is 128, maximum is 4294967295

Value parameter changes in version 5.5.3:

- Default is 131072, minimum is 128, maximum is 18446744073709547520

- **`key_cache_age_threshold`**

Value parameter changes in version 5.5.3:

- Default is 300, minimum is 100, maximum is 18446744073709551615

- **`language`**

Deprecated in version 5.5.0 and replaced with `lc-messages-dir`

- **`lock_wait_timeout`**

Introduced in version 5.5.3

- **`log-bin-trust-routine-creators`**

Removed in version 5.5.3

- **`log-bin-use-v1-row-events`**

Introduced in version 5.5.15-ndb-7.2.1

- **`log_bin_use_v1_row_events`**

Introduced in version 5.5.15-ndb-7.2.1

- **`log-tc-size`**

Value parameter changes in version 5.5.3:

- Default is 24576, minimum is not specified, maximum is 18446744073709551615

- **`log-warnings`**

Value parameter changes in version 5.5.3:

- Default is 1, minimum is not specified, maximum is 18446744073709551615

- **`master-connect-retry`**

Removed in version 5.5.3

- **`master-host`**
Removed in version 5.5.3
- **`master-password`**
Removed in version 5.5.3
- **`master-port`**
Removed in version 5.5.3
- **`master-ssl`**
Removed in version 5.5.3
- **`master-ssl-ca`**
Removed in version 5.5.3
- **`master-ssl-capath`**
Removed in version 5.5.3
- **`master-ssl-cert`**
Removed in version 5.5.3
- **`master-ssl-cipher`**
Removed in version 5.5.3
- **`master-ssl-key`**
Removed in version 5.5.3
- **`master-user`**
Removed in version 5.5.3
- **`max_binlog_cache_size`**
Value parameter changes in version 5.5.3:
 - Default is 18446744073709551615, minimum is 4096, maximum is 18446744073709551615
- **`max_binlog_stmt_cache_size`**
Introduced in version 5.5.9
- **`max_connect_errors`**
Value parameter changes in version 5.5.3:
 - Default is 10, minimum is 1, maximum is 18446744073709551615
- **`max_long_data_size`**
Introduced in version 5.5.11

Deprecated in version 5.5.11

- `max_seeks_for_key`

Value parameter changes in version 5.5.3:

- Default is 18446744073709551615, minimum is 1, maximum is 18446744073709551615

- `max_write_lock_count`

Value parameter changes in version 5.5.3:

- Default is 18446744073709551615, minimum is 1, maximum is 18446744073709551615

- `metadata_locks_cache_size`

Introduced in version 5.5.19

- `min-examined-row-limit`

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 18446744073709551615

- `myisam_mmap_size`

Introduced in version 5.5.1

Value parameter changes in version 5.5.3:

- Default is 18446744073709551615, minimum is 7, maximum is 18446744073709551615

- `myisam-recover`

Removed in version 5.5.3

- `myisam-recover-options`

Introduced in version 5.5.3

- `myisam_repair_threads`

Value parameter changes in version 5.5.3:

- Default is 1, minimum is 1, maximum is 18446744073709551615

- `myisam_sort_buffer_size`

Value parameter changes in version 5.5.22:

- Default is 8388608, minimum is 4096, maximum is 18446744073709551615

Value parameter changes in version 5.5.3:

- Default is 8388608, minimum is 4096, maximum is 18446744073709551615

- `ndb_autoincrement_prefetch_sz`

Value parameter changes in version 5.5.15-ndb-7.2.1:

- Default is 1, minimum is 1, maximum is 65536
- **`Ndb_conflict_fn_epoch`**
Introduced in version 5.5.15-ndb-7.2.1
- **`Ndb_conflict_fn_epoch_trans`**
Introduced in version 5.5.15-ndb-7.2.1
- **`Ndb_conflict_trans_conflict_commit_count`**
Introduced in version 5.5.15-ndb-7.2.1
- **`Ndb_conflict_trans_detect_iter_count`**
Introduced in version 5.5.15-ndb-7.2.1
- **`Ndb_conflict_trans_reject_count`**
Introduced in version 5.5.15-ndb-7.2.1
- **`Ndb_conflict_trans_row_reject_count`**
Introduced in version 5.5.15-ndb-7.2.1
- **`ndb_eventbuffer_max_alloc`**
Introduced in version 5.5.34-ndb-7.2.14
- **`ndb_index_stat_cache_entries`**
Removed in version 5.5.36-ndb-7.2.16
- **`ndb_index_stat_enable`**
Value parameter changes in version 5.5.15-ndb-7.2.1:
 - Default is ON
- **`ndb_index_stat_option`**
Introduced in version 5.5.15-ndb-7.2.1
- **`ndb_index_stat_update_freq`**
Removed in version 5.5.36-ndb-7.2.16
- **`ndb-log-transaction-id`**
Introduced in version 5.5.15-ndb-7.2.1
- **`ndb_log_transaction_id`**
Introduced in version 5.5.15-ndb-7.2.1
- **`ndb-transid-mysql-connection-map`**
Introduced in version 5.5.16-ndb-7.2.2

- **`net_retry_count`**

Value parameter changes in version 5.5.3:

- Default is 10, minimum is 1, maximum is 18446744073709551615

- **`optimizer_switch`**

Value parameter changes in version 5.5.3:

- Default is not specified

- **`performance_schema`**

Introduced in version 5.5.3

- **`Performance_schema_cond_classes_lost`**

Introduced in version 5.5.3

- **`Performance_schema_cond_instances_lost`**

Introduced in version 5.5.3

- **`performance_schema_events_waits_history_long_size`**

Introduced in version 5.5.3

- **`performance_schema_events_waits_history_size`**

Introduced in version 5.5.3

- **`Performance_schema_file_classes_lost`**

Introduced in version 5.5.3

- **`Performance_schema_file_handles_lost`**

Introduced in version 5.5.3

- **`Performance_schema_file_instances_lost`**

Introduced in version 5.5.3

- **`Performance_schema_locker_lost`**

Introduced in version 5.5.3

- **`performance_schema_max_cond_classes`**

Introduced in version 5.5.3

- **`performance_schema_max_cond_instances`**

Introduced in version 5.5.3

- **`performance_schema_max_file_classes`**

Introduced in version 5.5.3

- **`performance_schema_max_file_handles`**
Introduced in version 5.5.3
- **`performance_schema_max_file_instances`**
Introduced in version 5.5.3
- **`performance_schema_max_mutex_classes`**
Introduced in version 5.5.3
- **`performance_schema_max_mutex_instances`**
Introduced in version 5.5.3
- **`performance_schema_max_rwlock_classes`**
Introduced in version 5.5.3
Value parameter changes in version 5.5.7:
 - Default is 30, minimum is not specified, maximum is not specified
- **`performance_schema_max_rwlock_instances`**
Introduced in version 5.5.3
- **`performance_schema_max_table_handles`**
Introduced in version 5.5.3
- **`performance_schema_max_table_instances`**
Introduced in version 5.5.3
- **`performance_schema_max_thread_classes`**
Introduced in version 5.5.3
- **`performance_schema_max_thread_instances`**
Introduced in version 5.5.3
- **`Performance_schema_mutex_classes_lost`**
Introduced in version 5.5.3
- **`Performance_schema_mutex_instances_lost`**
Introduced in version 5.5.3
- **`Performance_schema_rwlock_classes_lost`**
Introduced in version 5.5.3
- **`Performance_schema_rwlock_instances_lost`**
Introduced in version 5.5.3

- **`Performance_schema_table_handles_lost`**

Introduced in version 5.5.3

- **`Performance_schema_table_instances_lost`**

Introduced in version 5.5.3

- **`Performance_schema_thread_classes_lost`**

Introduced in version 5.5.3

- **`Performance_schema_thread_instances_lost`**

Introduced in version 5.5.3

- **`plugin_dir`**

Value parameter changes in version 5.5.5:

- Default is `BASEDIR/lib/plugin`

- **`proxy_user`**

Introduced in version 5.5.7

- **`pseudo_slave_mode`**

Introduced in version 5.5.30

- **`query_alloc_block_size`**

Value parameter changes in version 5.5.3:

- Default is 8192, minimum is 1024, maximum is 18446744073709551615

- **`query_cache_limit`**

Value parameter changes in version 5.5.3:

- Default is 1048576, minimum is not specified, maximum is 18446744073709551615

- **`query_cache_min_res_unit`**

Value parameter changes in version 5.5.3:

- Default is 4096, minimum is 512, maximum is 18446744073709551615

- **`query_cache_size`**

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 18446744073709551615

- **`query_prealloc_size`**

Value parameter changes in version 5.5.3:

- Default is 8192, minimum is 8192, maximum is 18446744073709551615

- **`range_alloc_block_size`**

Value parameter changes in version 5.5.3:

- Default is 4096, minimum is 4096, maximum is 18446744073709551615

- **`read_rnd_buffer_size`**

Value parameter changes in version 5.5.3:

- Default is 262144, minimum is 1, maximum is 2147483647

- **`relay_log_space_limit`**

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 18446744073709551615

- **`report-port`**

Value parameter changes in version 5.5.23:

- Default is not specified, minimum is not specified, maximum is 65535

- **`rpl_recovery_rank`**

Deprecated in version 5.5.3

- **`Rpl_status`**

Deprecated in version 5.5.3

- **`safe-mode`**

Deprecated in version 5.5.26

- **`safe-show-database`**

Removed in version 5.5.3

- **`safemalloc-mem-limit`**

Removed in version 5.5.6

- **`set-variable`**

Removed in version 5.5.3

- **`skip-locking`**

Removed in version 5.5.3

- **`skip-safemalloc`**

Removed in version 5.5.6

- **`skip-symlink`**

Removed in version 5.5.3

- **`slave-max-allowed-packet`**

Introduced in version 5.5.26

- **`slave_max_allowed_packet`**

Introduced in version 5.5.26

- **`slave-skip-errors`**

Value parameter changes in version 5.5.22-ndb-7.2.6:

- Default is OFF

- **`slave_transaction_retries`**

Value parameter changes in version 5.5.3:

- Default is 10, minimum is not specified, maximum is 18446744073709551615

- **`slave_type_conversions`**

Introduced in version 5.5.3

- **`slow-start-timeout`**

Introduced in version 5.5.20

- **`sql_auto_is_null`**

Value parameter changes in version 5.5.3:

- Default is not specified

- **`sql_log_update`**

Removed in version 5.5.3

- **`storage_engine`**

Value parameter changes in version 5.5.5:

- Default is InnoDB

- **`stored_program_cache`**

Introduced in version 5.5.21

- **`super-large-pages`**

Introduced in version 5.5.3

- **`sync_binlog`**

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 4294967295

- **`sync_master_info`**

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 18446744073709551615

- **`sync_relay_log`**

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 18446744073709551615

- **`sync_relay_log_info`**

Value parameter changes in version 5.5.3:

- Default is not specified, minimum is not specified, maximum is 18446744073709551615

- **`table_lock_wait_timeout`**

Removed in version 5.5.3

- **`table_type`**

Removed in version 5.5.3

- **`thread_handling`**

Value parameter changes in version 5.5.16:

- Default is one-thread-per-connection

- **`thread_pool_algorithm`**

Introduced in version 5.5.16

- **`thread_pool_high_priority_connection`**

Introduced in version 5.5.16

- **`thread_pool_max_unused_threads`**

Introduced in version 5.5.16

- **`thread_pool_prio_kickup_timer`**

Introduced in version 5.5.16

- **`thread_pool_size`**

Introduced in version 5.5.16

- **`thread_pool_stall_limit`**

Introduced in version 5.5.16

- **`thread_stack`**

Value parameter changes in version 5.5.3:

- Default is 262144, minimum is 131072, maximum is 18446744073709551615

- **timed_mutexes**

Deprecated in version 5.5.39

- **transaction_alloc_block_size**

Value parameter changes in version 5.5.43:

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

Value parameter changes in version 5.5.3:

- Default is 8192, minimum is 1024, maximum is 18446744073709551615

- **transaction_prealloc_size**

Value parameter changes in version 5.5.43:

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

Value parameter changes in version 5.5.3:

- Default is 4096, minimum is 1024, maximum is 18446744073709551615

- **warnings**

Value parameter changes in version 5.5.3:

- Default is 1, minimum is not specified, maximum is 18446744073709551615

1.3 Option/Variable Changes for **mysqld** 5.6

The list below details the changes in specific options/variables within MySQL 5.6

- **audit-log**

Introduced in version 5.6.10

- **audit_log_buffer_size**

Introduced in version 5.6.10

- **audit_log_connection_policy**

Introduced in version 5.6.20

- **audit_log_current_session**

Introduced in version 5.6.20

- **Audit_log_current_size**

Introduced in version 5.6.20

- **Audit_log_event_max_drop_size**

Introduced in version 5.6.20

- **Audit_log_events**

Introduced in version 5.6.20

- **`Audit_log_events_filtered`**

Introduced in version 5.6.20

- **`Audit_log_events_lost`**

Introduced in version 5.6.20

- **`Audit_log_events_written`**

Introduced in version 5.6.20

- **`audit_log_exclude_accounts`**

Introduced in version 5.6.20

- **`audit_log_file`**

Introduced in version 5.6.10

- **`audit_log_flush`**

Introduced in version 5.6.10

- **`audit_log_format`**

Introduced in version 5.6.14

- **`audit_log_include_accounts`**

Introduced in version 5.6.20

- **`audit_log_policy`**

Introduced in version 5.6.10

- **`audit_log_rotate_on_size`**

Introduced in version 5.6.10

- **`audit_log_statement_policy`**

Introduced in version 5.6.20

- **`audit_log_strategy`**

Introduced in version 5.6.10

- **`Audit_log_total_size`**

Introduced in version 5.6.20

- **`Audit_log_write_waits`**

Introduced in version 5.6.20

- **`authentication_windows_log_level`**

Introduced in version 5.6.10

- **`authentication_windows_use_principal_name`**

Introduced in version 5.6.10

- **`avoid_temporal_upgrade`**

Introduced in version 5.6.24

Deprecated in version 5.6.24

- **`back_log`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is 1, maximum is 65535

- **`bind-address`**

Value parameter changes in version 5.6.6:

- Default is *

- **`binlog-checksum`**

Introduced in version 5.6.2

Value parameter changes in version 5.6.6:

- Default is CRC32

- **`binlog_checksum`**

Introduced in version 5.6.2

Value parameter changes in version 5.6.6:

- Default is CRC32

- **`binlog_error_action`**

Introduced in version 5.6.22

- **`binlog-format`**

Value parameter changes in version 5.6.10-ndb-7.3.1:

- Default is MIXED

- **`binlog_gtid_simple_recovery`**

Introduced in version 5.6.23

- **`binlog_max_flush_queue_time`**

Introduced in version 5.6.6

- **`binlog_order_commits`**

Introduced in version 5.6.6

- **`binlog-row-event-max-size`**

Value parameter changes in version 5.6.6:

- Default is 8192, minimum is 256, maximum is 4294967295

Value parameter changes in version 5.6.6:

- Default is 8192, minimum is 256, maximum is 18446744073709551615

- **`binlog_row_image`**

Introduced in version 5.6.2

- **`binlog-rows-query-log-events`**

Introduced in version 5.6.2

- **`binlog_rows_query_log_events`**

Introduced in version 5.6.2

- **`Binlog_stmt_cache_disk_use`**

Introduced in version 5.6.1

- **`binlog_stmt_cache_size`**

Introduced in version 5.6.1

- **`Binlog_stmt_cache_use`**

Introduced in version 5.6.1

- **`binlogging_impossible_mode`**

Introduced in version 5.6.20

Deprecated in version 5.6.22

- **`block_encryption_mode`**

Introduced in version 5.6.17

- **`Com_alter_user`**

Introduced in version 5.6.6

- **`Com_get_diagnostics`**

Introduced in version 5.6.4

- **`Connection_errors_accept`**

Introduced in version 5.6.5

- **`Connection_errors_internal`**

Introduced in version 5.6.5

- **`Connection_errors_max_connections`**

Introduced in version 5.6.5

- **`Connection_errors_peer_addr`**

Introduced in version 5.6.5

- **`Connection_errors_select`**

Introduced in version 5.6.5

- **`Connection_errors_tcpwrap`**

Introduced in version 5.6.5

- **`core_file`**

Introduced in version 5.6.2

- **`create_old_temporals`**

Introduced in version 5.6.25-ndb-7.4.7

Deprecated in version 5.6.25-ndb-7.4.7

- **`daemon_memcached_enable_binlog`**

Introduced in version 5.6.6

- **`daemon_memcached_engine_lib_name`**

Introduced in version 5.6.6

- **`daemon_memcached_engine_lib_path`**

Introduced in version 5.6.6

- **`daemon_memcached_option`**

Introduced in version 5.6.6

- **`daemon_memcached_r_batch_size`**

Introduced in version 5.6.6

- **`daemon_memcached_w_batch_size`**

Introduced in version 5.6.6

- **`default-authentication-plugin`**

Introduced in version 5.6.6

- **`default_tmp_storage_engine`**

Introduced in version 5.6.3

- **Delayed_errors**
Deprecated in version 5.6.7
- **delayed_insert_limit**
Deprecated in version 5.6.7
- **Delayed_insert_threads**
Deprecated in version 5.6.7
- **delayed_insert_timeout**
Deprecated in version 5.6.7
- **delayed_queue_size**
Deprecated in version 5.6.7
- **Delayed_writes**
Deprecated in version 5.6.7
- **disable-gtid-unsafe-statements**
Introduced in version 5.6.5
Removed in version 5.6.9
- **disable_gtid_unsafe_statements**
Introduced in version 5.6.5
Removed in version 5.6.9
- **disconnect_on_expired_password**
Introduced in version 5.6.10
- **end_markers_in_json**
Introduced in version 5.6.5
- **enforce-gtid-consistency**
Introduced in version 5.6.9
- **enforce_gtid_consistency**
Introduced in version 5.6.9
- **engine-condition-pushdown**
Removed in version 5.6.1
- **eq_range_index_dive_limit**
Introduced in version 5.6.5

- **`explicit_defaults_for_timestamp`**

Introduced in version 5.6.6

Deprecated in version 5.6.6

- **`Firewall_access_denied`**

Introduced in version 5.6.24

- **`Firewall_access_granted`**

Introduced in version 5.6.24

- **`Firewall_cached_entries`**

Introduced in version 5.6.24

- **`flush_time`**

Value parameter changes in version 5.6.6:

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

- **`gtid_done`**

Introduced in version 5.6.5

Removed in version 5.6.9

- **`gtid_executed`**

Introduced in version 5.6.9

- **`gtid_lost`**

Introduced in version 5.6.5

Removed in version 5.6.9

- **`gtid-mode`**

Introduced in version 5.6.5

- **`gtid_mode`**

Introduced in version 5.6.5

- **`gtid_next`**

Introduced in version 5.6.5

- **`gtid_owned`**

Introduced in version 5.6.5

- **`gtid_purged`**

Introduced in version 5.6.9

- **`Handler_external_lock`**

Introduced in version 5.6.2

- **`Handler_mrr_init`**

Introduced in version 5.6.1

- **`Handler_read_last`**

Introduced in version 5.6.1

- **`have_csv`**

Removed in version 5.6.1

- **`have_innodb`**

Removed in version 5.6.1

- **`have_ndbcluster`**

Removed in version 5.6.1

- **`have_partitioning`**

Removed in version 5.6.1

- **`have_profiling`**

Deprecated in version 5.6.8

- **`host_cache_size`**

Introduced in version 5.6.5

Value parameter changes in version 5.6.8:

- Default is -1 (autosized), minimum is not specified, maximum is 65536

- **`ignore-db-dir`**

Introduced in version 5.6.3

- **`ignore_db_dirs`**

Introduced in version 5.6.3

- **`innodb`**

Deprecated in version 5.6.21

- **`innodb_adaptive_flushing_lwm`**

Introduced in version 5.6.6

- **`innodb_adaptive_max_sleep_delay`**

Introduced in version 5.6.3

- **`innodb_additional_mem_pool_size`**
Deprecated in version 5.6.3
- **`innodb_api_bk_commit_interval`**
Introduced in version 5.6.7
- **`innodb_api_disable_rowlock`**
Introduced in version 5.6.6
- **`innodb_api_enable_binlog`**
Introduced in version 5.6.6
- **`innodb_api_enable_md1`**
Introduced in version 5.6.6
- **`innodb_api_trx_level`**
Introduced in version 5.6.6
- **`innodb_autoextend_increment`**
Value parameter changes in version 5.6.6:
 - Default is 64, minimum is 1, maximum is 1000
- **`Innodb_available_undo_logs`**
Introduced in version 5.6.5
- **`Innodb_buffer_pool_bytes_data`**
Introduced in version 5.6.10
- **`Innodb_buffer_pool_bytes_dirty`**
Introduced in version 5.6.10
- **`innodb_buffer_pool_dump_at_shutdown`**
Introduced in version 5.6.3
- **`innodb_buffer_pool_dump_now`**
Introduced in version 5.6.3
- **`Innodb_buffer_pool_dump_status`**
Introduced in version 5.6.3
- **`innodb_buffer_pool_filename`**
Introduced in version 5.6.3
- **`innodb_buffer_pool_instances`**

Value parameter changes in version 5.6.6:

- Default is (autosized), minimum is 1, maximum is 64

Value parameter changes in version 5.6.6:

- Default is 8 (or 1 if `innodb_buffer_pool_size` < 1GB, minimum is 1, maximum is 64

- **`innodb_buffer_pool_load_abort`**

Introduced in version 5.6.3

- **`innodb_buffer_pool_load_at_startup`**

Introduced in version 5.6.3

- **`innodb_buffer_pool_load_now`**

Introduced in version 5.6.3

- **`Innodb_buffer_pool_load_status`**

Introduced in version 5.6.3

- **`innodb_change_buffer_max_size`**

Introduced in version 5.6.2

- **`innodb_checksum_algorithm`**

Introduced in version 5.6.3

Value parameter changes in version 5.6.6:

- Default is `crc32`

Value parameter changes in version 5.6.7:

- Default is `innodb`

- **`innodb_checksums`**

Deprecated in version 5.6.3

- **`innodb_cmp_per_index_enabled`**

Introduced in version 5.6.7

- **`innodb_compression_failure_threshold_pct`**

Introduced in version 5.6.7

- **`innodb_compression_level`**

Introduced in version 5.6.7

- **`innodb_compression_pad_pct_max`**

Introduced in version 5.6.7

- **`innodb_concurrency_tickets`**

Value parameter changes in version 5.6.6:

- Default is 5000, minimum is 1, maximum is 4294967295

- **`innodb_data_file_path`**

Value parameter changes in version 5.6.7:

- Default is ibdata1:12M:autoextend

- **`innodb_disable_sort_file_cache`**

Introduced in version 5.6.4

- **`innodb_fil_make_page_dirty_debug`**

Introduced in version 5.6.17

- **`innodb_file_per_table`**

Value parameter changes in version 5.6.6:

- Default is ON

- **`innodb_flush_log_at_timeout`**

Introduced in version 5.6.6

- **`innodb_flush_method`**

Value parameter changes in version 5.6.7:

- Default is NULL

- **`innodb_flush_neighbors`**

Introduced in version 5.6.3

- **`innodb_flushing_avg_loops`**

Introduced in version 5.6.6

- **`innodb_force_load_corrupted`**

Introduced in version 5.6.3

- **`innodb_ft_aux_table`**

Introduced in version 5.6.4

- **`innodb_ft_cache_size`**

Introduced in version 5.6.4

Value parameter changes in version 5.6.10:

- Default is 8000000, minimum is 1600000, maximum is 80000000

- **`innodb_ft_enable_diag_print`**

Introduced in version 5.6.4

Value parameter changes in version 5.6.7:

- Default is OFF

- **`innodb_ft_enable_stopword`**

Introduced in version 5.6.4

- **`innodb_ft_max_token_size`**

Introduced in version 5.6.4

Value parameter changes in version 5.6.14:

- Default is 84, minimum is 10, maximum is 84

- **`innodb_ft_min_token_size`**

Introduced in version 5.6.4

- **`innodb_ft_num_word_optimize`**

Introduced in version 5.6.4

- **`innodb_ft_result_cache_limit`**

Introduced in version 5.6.13

Value parameter changes in version 5.6.17:

- Default is 2000000000, minimum is 1000000, maximum is $2^{32}-1$

- **`innodb_ft_server_stopword_table`**

Introduced in version 5.6.4

- **`innodb_ft_sort_pll_degree`**

Introduced in version 5.6.4

- **`innodb_ft_total_cache_size`**

Introduced in version 5.6.13

- **`innodb_ft_user_stopword_table`**

Introduced in version 5.6.4

- **`innodb_io_capacity_max`**

Introduced in version 5.6.6

- **`innodb_large_prefix`**

Introduced in version 5.6.3

- **`innodb_locks_unsafe_for_binlog`**

Deprecated in version 5.6.3

- **`innodb_log_compressed_pages`**

Introduced in version 5.6.11

- **`innodb_log_file_size`**

Value parameter changes in version 5.6.3:

- Default is 5242880, minimum is 1048576, maximum is 512GB / `innodb_log_files_in_group`

Value parameter changes in version 5.6.8:

- Default is 50331648, minimum is 1048576, maximum is 512GB / `innodb_log_files_in_group`

- **`innodb_lru_scan_depth`**

Introduced in version 5.6.3

- **`innodb_max_dirty_pages_pct_lwm`**

Introduced in version 5.6.6

- **`innodb_max_purge_lag_delay`**

Introduced in version 5.6.5

- **`innodb_monitor_disable`**

Introduced in version 5.6.2

- **`innodb_monitor_enable`**

Introduced in version 5.6.2

- **`innodb_monitor_reset`**

Introduced in version 5.6.2

- **`innodb_monitor_reset_all`**

Introduced in version 5.6.2

- **`Innodb_num_open_files`**

Introduced in version 5.6.2

- **`innodb_numa_interleave`**

Introduced in version 5.6.27

- **`innodb_old_blocks_time`**

Value parameter changes in version 5.6.6:

- Default is 1000, minimum is not specified, maximum is $2^{32}-1$

- **`innodb_online_alter_log_max_size`**
Introduced in version 5.6.6
- **`innodb_open_files`**
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is 10, maximum is 4294967295
- **`innodb_optimize_fulltext_only`**
Introduced in version 5.6.4
- **`innodb_page_size`**
Introduced in version 5.6.4
- **`innodb_print_all_deadlocks`**
Introduced in version 5.6.2
- **`innodb_purge_batch_size`**
Value parameter changes in version 5.6.3:
 - Default is 300, minimum is 1, maximum is 5000
- **`innodb_purge_threads`**
Value parameter changes in version 5.6.2:
 - Default is not specified, minimum is not specified, maximum is 32
Value parameter changes in version 5.6.5:
 - Default is 1, minimum is 1, maximum is 32
- **`innodb_random_read_ahead`**
Introduced in version 5.6.3
- **`innodb_read_only`**
Introduced in version 5.6.7
- **`innodb_rollback_segments`**
Introduced in version 5.6.2
- **`innodb_saved_page_number_debug`**
Introduced in version 5.6.17
- **`innodb_sort_buffer_size`**
Introduced in version 5.6.4

Value parameter changes in version 5.6.5:

- Default is 1048576, minimum is 65536, maximum is 67108864
- **`innodb_stats_auto_recalc`**
Introduced in version 5.6.6
- **`innodb_stats_method`**
Introduced in version 5.6.2
- **`innodb_stats_on_metadata`**
Value parameter changes in version 5.6.6:
 - Default is OFF
- **`innodb_stats_persistent`**
Introduced in version 5.6.6
- **`innodb_stats_persistent_sample_pages`**
Introduced in version 5.6.2
- **`innodb_stats_sample_pages`**
Deprecated in version 5.6.3
- **`innodb_stats_transient_sample_pages`**
Introduced in version 5.6.2
- **`innodb_status_output`**
Introduced in version 5.6.16
- **`innodb_status_output_locks`**
Introduced in version 5.6.16
- **`innodb_sync_array_size`**
Introduced in version 5.6.3
- **`innodb_thread_sleep_delay`**
Value parameter changes in version 5.6.17:
 - Default is 10000, minimum is not specified, maximum is 1000000
- **`innodb_tmpdir`**
Introduced in version 5.6.29
- **`innodb_undo_directory`**
Introduced in version 5.6.3
- **`innodb_undo_logs`**

Introduced in version 5.6.3

- `innodb_undo_tablespaces`

Introduced in version 5.6.3

- `innodb_use_sys_malloc`

Deprecated in version 5.6.3

- `join_buffer_size`

Value parameter changes in version 5.6.6:

- Default is 262144, minimum is 128, maximum is 4294967295

Value parameter changes in version 5.6.6:

- Default is 262144, minimum is 128, maximum is 4294967295

Value parameter changes in version 5.6.6:

- Default is 262144, minimum is 128, maximum is 18446744073709547520

- `language`

Deprecated in version 5.6.1 and replaced with `lc-messages-dir`

- `Last_query_partial_plans`

Introduced in version 5.6.5

- `log`

Removed in version 5.6.1

- `log_bin_basename`

Introduced in version 5.6.2

- `log_bin_index`

Introduced in version 5.6.4

- `log-bin-use-v1-row-events`

Introduced in version 5.6.6

- `log_bin_use_v1_row_events`

Introduced in version 5.6.6

- `log-raw`

Introduced in version 5.6.3

- `log-slow-admin-statements`

Removed in version 5.6.11

- **`log_slow_admin_statements`**
Introduced in version 5.6.11
- **`log-slow-queries`**
Removed in version 5.6.1
- **`log-slow-slave-statements`**
Removed in version 5.6.11
- **`log_slow_slave_statements`**
Introduced in version 5.6.11
- **`log_throttle_queries_not_using_indexes`**
Introduced in version 5.6.5
- **`master-info-repository`**
Introduced in version 5.6.2
- **`master_info_repository`**
Introduced in version 5.6.2
- **`master-retry-count`**
Deprecated in version 5.6.1
- **`master-verify-checksum`**
Introduced in version 5.6.2
- **`master_verify_checksum`**
Introduced in version 5.6.2
- **`max_allowed_packet`**
Value parameter changes in version 5.6.6:
 - Default is 4194304, minimum is 1024, maximum is 1073741824
- **`max_binlog_stmt_cache_size`**
Introduced in version 5.6.1
- **`max_connect_errors`**
Value parameter changes in version 5.6.6:
 - Default is 100, minimum is 1, maximum is 4294967295
Value parameter changes in version 5.6.6:
 - Default is 100, minimum is 1, maximum is 18446744073709551615

- **`max_delayed_threads`**
Deprecated in version 5.6.7
- **`max_digest_length`**
Introduced in version 5.6.24
- **`max_insert_delayed_threads`**
Deprecated in version 5.6.7
- **`max_tmp_tables`**
Deprecated in version 5.6.7
- **`metadata_locks_cache_size`**
Introduced in version 5.6.4
- **`metadata_locks_hash_instances`**
Introduced in version 5.6.8
- **`multi_range_count`**
Deprecated in version 5.6.7
- **`myisam_sort_buffer_size`**
Value parameter changes in version 5.6.5:
 - Default is 8388608, minimum is 4096, maximum is 18446744073709551615
- **`mysql_firewall_max_query_size`**
Introduced in version 5.6.24
Removed in version 5.6.26
- **`mysql_firewall_mode`**
Introduced in version 5.6.24
- **`mysql_firewall_trace`**
Introduced in version 5.6.24
- **`ndb_clear_apply_status`**
Introduced in version 5.6.28-ndb-7.4.9
- **`Ndb_conflict_fn_epoch2`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_conflict_fn_epoch2_trans`**
Introduced in version 5.6.21-ndb-7.4.2

- **`Ndb_conflict_fn_max_del_win`**
Introduced in version 5.6.21-ndb-7.4.1
- **`Ndb_conflict_last_conflict_epoch`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_conflict_last_stable_epoch`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_conflict_reflected_op_discard_count`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_conflict_reflected_op_prepare_count`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_conflict_refresh_op_count`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_conflict_trans_row_conflict_count`**
Introduced in version 5.6.21-ndb-7.4.2
- **`Ndb_epoch_delete_delete_count`**
Introduced in version 5.6.22-ndb-7.4.2
- **`ndb_eventbuffer_free_percent`**
Introduced in version 5.6.22-ndb-7.4.3
- **`ndb_eventbuffer_max_alloc`**
Introduced in version 5.6.14-ndb-7.3.3
- **`ndb_index_stat_cache_entries`**
Removed in version 5.6.16-ndb-7.3.5
- **`ndb_index_stat_update_freq`**
Removed in version 5.6.16-ndb-7.3.5
- **`Ndb_last_commit_epoch_server`**
Introduced in version 5.6.20-ndb-7.4.1
- **`Ndb_last_commit_epoch_session`**
Introduced in version 5.6.20-ndb-7.4.1
- **`ndb-log-exclusive-reads`**
Introduced in version 5.6.20-ndb-7.4.1

- **`ndb_log_exclusive_reads`**

Introduced in version 5.6.20-ndb-7.4.1

- **`ndb-recv-thread-activation-threshold`**

Introduced in version 5.6.10-ndb-7.3.1

- **`ndb_recv_thread_activation_threshold`**

Introduced in version 5.6.10-ndb-7.3.1

- **`ndb-recv-thread-cpu-mask`**

Introduced in version 5.6.10-ndb-7.3.1

- **`ndb_recv_thread_cpu_mask`**

Introduced in version 5.6.10-ndb-7.3.1

- **`ndb_show_foreign_key_mock_tables`**

Introduced in version 5.6.11-ndb-7.3.2

- **`ndb_slave_conflict_role`**

Introduced in version 5.6.20-ndb-7.4.1

- **`Ndb_slave_max_replicated_epoch`**

Introduced in version 5.6.20-ndb-7.4.1

- **`Not_flushed_delayed_rows`**

Deprecated in version 5.6.7

- **`old_passwords`**

Value parameter changes in version 5.6.6:

- Default is not specified

- **`one-thread`**

Removed in version 5.6.1

- **`open-files-limit`**

Value parameter changes in version 5.6.8:

- Default is 5000, with possible adjustment, minimum is not specified, maximum is platform dependent

- **`optimizer_join_cache_level`**

Introduced in version 5.6.1

Removed in version 5.6.3

- **`optimizer_switch`**

Value parameter changes in version 5.6.1:

- Default is not specified

Value parameter changes in version 5.6.3:

- Default is not specified

Value parameter changes in version 5.6.5:

- Default is not specified

Value parameter changes in version 5.6.7:

- Default is not specified

Value parameter changes in version 5.6.9:

- Default is not specified

- **`optimizer_trace`**

Introduced in version 5.6.3

- **`optimizer_trace_features`**

Introduced in version 5.6.3

- **`optimizer_trace_limit`**

Introduced in version 5.6.3

- **`optimizer_trace_max_mem_size`**

Introduced in version 5.6.3

- **`optimizer_trace_offset`**

Introduced in version 5.6.3

- **`performance_schema`**

Value parameter changes in version 5.6.6:

- Default is ON

- **`Performance_schema_accounts_lost`**

Introduced in version 5.6.3

- **`performance_schema_accounts_size`**

Introduced in version 5.6.3

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is -1 (autosized), maximum is 1048576

- **`performance-schema-consumer-events-stages-current`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-stages-history`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-stages-history-long`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-statements-current`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-statements-history`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-statements-history-long`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-waits-current`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-waits-history`**

Introduced in version 5.6.4

- **`performance-schema-consumer-events-waits-history-long`**

Introduced in version 5.6.4

- **`performance-schema-consumer-global-instrumentation`**

Introduced in version 5.6.4

- **`performance-schema-consumer-statements-digest`**

Introduced in version 5.6.5

- **`performance-schema-consumer-thread-instrumentation`**

Introduced in version 5.6.4

- **`Performance_schema_digest_lost`**

Introduced in version 5.6.5

- **`performance_schema_digests_size`**

Introduced in version 5.6.5

- **`performance_schema_events_stages_history_long_size`**

Introduced in version 5.6.3

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`performance_schema_events_stages_history_size`**
Introduced in version 5.6.3
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`performance_schema_events_statements_history_long_size`**
Introduced in version 5.6.3
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`performance_schema_events_statements_history_size`**
Introduced in version 5.6.3
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`performance_schema_events_waits_history_long_size`**
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`performance_schema_events_waits_history_size`**
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`Performance_schema_hosts_lost`**
Introduced in version 5.6.3
- **`performance_schema_hosts_size`**
Introduced in version 5.6.3
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is -1 (autosized), maximum is 1048576
- **`performance-schema-instrument`**
Introduced in version 5.6.4
- **`performance_schema_max_cond_instances`**
Value parameter changes in version 5.6.6:
 - Default is -1 (autosized), minimum is not specified, maximum is not specified

- **`performance_schema_max_digest_length`**

Introduced in version 5.6.26

- **`performance_schema_max_file_instances`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified

- **`performance_schema_max_mutex_instances`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified

- **`performance_schema_max_rwlock_classes`**

Value parameter changes in version 5.6.1:

- Default is 30, minimum is not specified, maximum is not specified

Value parameter changes in version 5.6.15:

- Default is 40, minimum is not specified, maximum is not specified

- **`performance_schema_max_rwlock_instances`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified

- **`performance_schema_max_socket_classes`**

Introduced in version 5.6.3

- **`performance_schema_max_socket_instances`**

Introduced in version 5.6.3

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified

- **`performance_schema_max_stage_classes`**

Introduced in version 5.6.3

- **`performance_schema_max_statement_classes`**

Introduced in version 5.6.3

- **`performance_schema_max_table_handles`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified

- **`performance_schema_max_table_instances`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`performance_schema_max_thread_instances`**

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is not specified, maximum is not specified
- **`Performance_schema_session_connect_attrs_lost`**

Introduced in version 5.6.6

- **`performance_schema_session_connect_attrs_size`**

Introduced in version 5.6.6

- **`performance_schema_setup_actors_size`**

Introduced in version 5.6.1

- **`performance_schema_setup_objects_size`**

Introduced in version 5.6.1

- **`Performance_schema_socket_classes_lost`**

Introduced in version 5.6.3

- **`Performance_schema_socket_instances_lost`**

Introduced in version 5.6.3

- **`Performance_schema_stage_classes_lost`**

Introduced in version 5.6.3

- **`Performance_schema_statement_classes_lost`**

Introduced in version 5.6.3

- **`Performance_schema_users_lost`**

Introduced in version 5.6.3

- **`performance_schema_users_size`**

Introduced in version 5.6.3

Value parameter changes in version 5.6.6:

- Default is -1 (autosized), minimum is -1 (autosized), maximum is 1048576
 - **`plugin-load-add`**
- Introduced in version 5.6.3
- **`profiling`**

Deprecated in version 5.6.8

- **`profiling_history_size`**

Deprecated in version 5.6.8

- **`pseudo_slave_mode`**

Introduced in version 5.6.10

- **`query_cache_size`**

Value parameter changes in version 5.6.8:

- Default is 1048576, minimum is not specified, maximum is 4294967295

Value parameter changes in version 5.6.8:

- Default is 1048576, minimum is not specified, maximum is 18446744073709551615

- **`query_cache_type`**

Value parameter changes in version 5.6.8:

- Default is not specified

- **`relay_log_basename`**

Introduced in version 5.6.2

- **`relay-log-info-repository`**

Introduced in version 5.6.2

- **`relay_log_info_repository`**

Introduced in version 5.6.2

- **`report-port`**

Value parameter changes in version 5.6.5:

- Default is [slave_port], minimum is not specified, maximum is 65535

- **`rpl_stop_slave_timeout`**

Introduced in version 5.6.13

- **`Rsa_public_key`**

Introduced in version 5.6.6

- **`safe-mode`**

Removed in version 5.6.6

- **`secure-auth`**

Value parameter changes in version 5.6.5:

- Default is ON
- **`sha256_password_private_key_path`**
Introduced in version 5.6.6
- **`sha256_password_public_key_path`**
Introduced in version 5.6.6
- **`show_old_temporals`**
Introduced in version 5.6.24
Deprecated in version 5.6.24
- **`simplified_binlog_gtid_recovery`**
Introduced in version 5.6.21
Deprecated in version 5.6.23
- **`skip-thread-priority`**
Removed in version 5.6.1
- **`slave-checkpoint-group`**
Introduced in version 5.6.3
- **`slave_checkpoint_group`**
Introduced in version 5.6.3
- **`slave-checkpoint-period`**
Introduced in version 5.6.3
- **`slave_checkpoint_period`**
Introduced in version 5.6.3
- **`Slave_last_heartbeat`**
Introduced in version 5.6.1
- **`slave-max-allowed-packet`**
Introduced in version 5.6.6
- **`slave_max_allowed_packet`**
Introduced in version 5.6.6
- **`slave-parallel-workers`**
Introduced in version 5.6.3
- **`slave_parallel_workers`**

Introduced in version 5.6.3

- `slave-pending-jobs-size-max`

Introduced in version 5.6.3

- `slave_pending_jobs_size_max`

Introduced in version 5.6.3

- `slave-rows-search-algorithms`

Introduced in version 5.6.6

- `slave_rows_search_algorithms`

Introduced in version 5.6.6

- `slave-sql-verify-checksum`

Introduced in version 5.6.2

- `slave_sql_verify_checksum`

Introduced in version 5.6.2

- `slave_type_conversions`

Value parameter changes in version 5.6.13:

- Default is not specified

- `slow-start-timeout`

Introduced in version 5.6.5

- `sort_buffer_size`

Value parameter changes in version 5.6.4:

- Default is 262144, minimum is 32768, maximum is 4294967295

Value parameter changes in version 5.6.4:

- Default is 262144, minimum is 32768, maximum is 4294967295

Value parameter changes in version 5.6.4:

- Default is 262144, minimum is 32768, maximum is 18446744073709551615

- `sql_big_tables`

Removed in version 5.6.1

- `sql_low_priority_updates`

Removed in version 5.6.1

- `sql_max_join_size`

Removed in version 5.6.1

- **`sql-mode`**

Value parameter changes in version 5.6.6:

- Default is `NO_ENGINE_SUBSTITUTION`

- **`ssl-crl`**

Introduced in version 5.6.3

- **`ssl-crlpath`**

Introduced in version 5.6.3

- **`Ssl_server_not_after`**

Introduced in version 5.6.3

- **`Ssl_server_not_before`**

Introduced in version 5.6.3

- **`stored_program_cache`**

Introduced in version 5.6.5

- **`sync_master_info`**

Value parameter changes in version 5.6.6:

- Default is 10000, minimum is not specified, maximum is 4294967295

Value parameter changes in version 5.6.6:

- Default is 10000, minimum is not specified, maximum is 18446744073709551615

- **`sync_relay_log`**

Value parameter changes in version 5.6.6:

- Default is 10000, minimum is not specified, maximum is 4294967295

Value parameter changes in version 5.6.6:

- Default is 10000, minimum is not specified, maximum is 18446744073709551615

- **`sync_relay_log_info`**

Value parameter changes in version 5.6.6:

- Default is 10000, minimum is not specified, maximum is 4294967295

Value parameter changes in version 5.6.6:

- Default is 10000, minimum is not specified, maximum is 18446744073709551615

- **`table_definition_cache`**

Value parameter changes in version 5.6.8:

- Default is -1 (autosized), minimum is 400, maximum is 524288

- **`table_open_cache`**

Value parameter changes in version 5.6.8:

- Default is 2000, minimum is 1, maximum is 524288

- **`Table_open_cache_hits`**

Introduced in version 5.6.6

- **`table_open_cache_instances`**

Introduced in version 5.6.6

- **`Table_open_cache_misses`**

Introduced in version 5.6.6

- **`Table_open_cache_overflows`**

Introduced in version 5.6.6

- **`thread_cache_size`**

Value parameter changes in version 5.6.8:

- Default is -1 (autosized), minimum is not specified, maximum is 16384

- **`thread_concurrency`**

Deprecated in version 5.6.1

- **`thread_pool_algorithm`**

Introduced in version 5.6.10

- **`thread_pool_high_priority_connection`**

Introduced in version 5.6.10

- **`thread_pool_max_unused_threads`**

Introduced in version 5.6.10

- **`thread_pool_prio_kickup_timer`**

Introduced in version 5.6.10

- **`thread_pool_size`**

Introduced in version 5.6.10

- **`thread_pool_stall_limit`**

Introduced in version 5.6.10

- **`timed_mutexes`**

Deprecated in version 5.6.20

- **`transaction_alloc_block_size`**

Value parameter changes in version 5.6.24:

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

- **`transaction_prealloc_size`**

Value parameter changes in version 5.6.24:

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

- **`transaction-read-only`**

Introduced in version 5.6.5

- **`tx_read_only`**

Introduced in version 5.6.5

- **`validate-password`**

Introduced in version 5.6.6

- **`validate_password_dictionary_file`**

Introduced in version 5.6.6

- **`validate_password_dictionary_file_last_parsed`**

Introduced in version 5.6.26

- **`validate_password_dictionary_file_words_count`**

Introduced in version 5.6.26

- **`validate_password_length`**

Introduced in version 5.6.6

- **`validate_password_mixed_case_count`**

Introduced in version 5.6.6

- **`validate_password_number_count`**

Introduced in version 5.6.6

- **`validate_password_policy`**

Introduced in version 5.6.6

- **`validate_password_special_char_count`**

Introduced in version 5.6.6

- `validate_user_plugins`

Introduced in version 5.6.11

1.4 Option/Variable Changes for `mysqld` 5.7

The list below details the changes in specific options/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_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_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
- **`audit_log_include_accounts`**
Introduced in version 5.7.9
- **`audit_log_policy`**
Introduced in version 5.7.9
- **`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
- **`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 TRUE
- **`binlog_max_flush_queue_time`**
Deprecated in version 5.7.9
- **`binlogging_impossible_mode`**
Introduced in version 5.7.5
Deprecated 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_show_create_user`**
Introduced in version 5.7.6
- **`Com_show_slave_status_nonblocking`**
Introduced in version 5.7.6
- **`Com_shutdown`**
Introduced in version 5.7.9
- **`create_old_temporals`**

Removed in version 5.7

- **`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 not specified, minimum is not specified, maximum is 65535

- **`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

- **`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 not specified, maximum is 4294967295

- **`executed-gtids-compression-period`**

Introduced in version 5.7.5

Deprecated in version 5.7.6

- **`executed_gtids_compression_period`**

Introduced in version 5.7.5

Deprecated 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

- **`gtid-executed-compression-period`**

Introduced in version 5.7.6

- **`gtid_executed_compression_period`**

Introduced in version 5.7.6

- **`gtid-mode`**

Value parameter changes in version 5.7.6:

- Default is OFF

- **`gtid_mode`**

Value parameter changes in version 5.7.6:

- Default is OFF

- **`have_statement_timeout`**

Introduced in version 5.7.4

- **`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_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_create_intrinsic`**
Introduced in version 5.7.5
Removed in version 5.7.6
- **`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

- **`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_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 not specified, maximum is 99.99

- **`innodb_max_dirty_pages_pct_lwm`**

Value parameter changes in version 5.7.5:

- Default is not specified, minimum is not specified, maximum is 99.99

- **`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_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 not specified, 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_tablespace`**

Value parameter changes in version 5.7.8:

- Default is not specified, minimum is not specified, 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_file_data`**
Introduced in version 5.7.11
- **`keyring_okv_conf_dir`**
Introduced in version 5.7.12
- **`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_timestamps`**

Introduced in version 5.7.2

- **`log-warnings`**

Deprecated in version 5.7.2

Value parameter changes in version 5.7.2:

- Default is 2, minimum is not specified, maximum is 4294967295

Value parameter changes in version 5.7.2:

- Default is 2, minimum is not specified, maximum is 18446744073709551615

- **`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

- **`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

- **`ndb-allow-copying-alter-table`**

Introduced in version 5.7.10-ndb-7.5.0

- **`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_fully_replicated`**
Introduced in version 5.7.12-ndb-7.5.2
- **`ndb_read_backup`**
Introduced in version 5.7.12-ndb-7.5.2
- **`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 not specified
- **`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
- **`parser_max_mem_size`**
Introduced in version 5.7.12
- **`performance_schema_accounts_size`**
Value parameter changes in version 5.7.6:
 - Default is -1 (autoscaled), minimum is -1 (autoscaled), 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 (autoscaled), minimum is -1 (autoscaled), 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 (autoscaled), minimum is not specified, maximum is not specified

- **`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 not specified, maximum is not specified

- **`performance_schema_max_file_instances`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified

- **`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 not specified, maximum is not specified

- **`performance_schema_max_metadata_locks`**

Introduced in version 5.7.3

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified
- **`performance_schema_max_mutex_instances`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified
- **`performance_schema_max_prepared_statements_instances`**

Introduced in version 5.7.4

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified
- **`performance_schema_max_program_instances`**

Introduced in version 5.7.2

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified
- **`performance_schema_max_rwlock_classes`**

Value parameter changes in version 5.7.3:

- Default is 40, minimum is not specified, maximum is not specified
- **`performance_schema_max_rwlock_instances`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified
- **`performance_schema_max_socket_instances`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified
- **`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 (autoscaled), minimum is not specified, maximum is not specified
- **`performance_schema_max_table_instances`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified

- **`performance_schema_max_table_lock_stat`**

Introduced in version 5.7.6

- **`performance_schema_max_thread_instances`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified

- **`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 (autoscaled), minimum is not specified, maximum is not specified

- **`performance_schema_setup_objects_size`**

Value parameter changes in version 5.7.6:

- Default is -1 (autoscaled), minimum is not specified, maximum is not specified

- **`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 (autoscaled), minimum is -1 (autoscaled), maximum is 1048576

- **`query_alloc_block_size`**

Value parameter changes in version 5.7.9:

- Default is 8192, minimum is 1024, maximum is 4294967295
- **`range_alloc_block_size`**
Value parameter changes in version 5.7.9:
 - Default is 4096, minimum is 4096, maximum is 4294967295Value parameter changes in version 5.7.8:
 - Default is 4096, minimum is 4096, maximum is 18446744073709547520
- **`range_optimizer_max_mem_size`**
Introduced in version 5.7.9
Value parameter changes in version 5.7.12:
 - Default is 8388608, minimum is not specified, maximum is not specified
- **`rbr_exec_mode`**
Introduced in version 5.7.1
- **`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
- **`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_old_temporals`**
Introduced in version 5.7.6
Deprecated in version 5.7.6
- **`simplified_binlog_gtid_recovery`**

Introduced in version 5.7.5

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 not specified

- **`slave-parallel-type`**

Introduced in version 5.7.2

- **`slave_parallel_type`**

Introduced in version 5.7.2

- **`slave_preserve_commit_order`**

Introduced in version 5.7.5

- **`slave_type_conversions`**

Value parameter changes in version 5.7.2:

- Default is not specified

- **`sql-mode`**

Value parameter changes in version 5.7.5:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_ENGINE_SUBSTITUTION

Value parameter changes in version 5.7.7:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_AUTO_CREATE_USER NO_ENGINE_SUBSTITUTION

Value 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

- **`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 not specified, 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

- **`thread_concurrency`**

Removed in version 5.7.2

- **`thread_handling`**

Value parameter changes in version 5.7.9:

- Default is one-thread-per-connection

- **`timed_mutexes`**

Removed in version 5.7.5

- **`tls_version`**

Introduced in version 5.7.10

- **`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

- **`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

Chapter 2 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 [Keywords and Reserved Words](#).

2.1 Keywords and Reserved Words in MySQL 5.1

The following table shows the keywords and reserved words in MySQL 5.1, along with changes to individual words from version to version. Reserved keywords are marked with (R).

Table 2.1 Keywords and Reserved Words in MySQL 5.1

ACCESSIBLE ^a (R)	ACTION	ADD (R)
AFTER	AGAINST	AGGREGATE
ALGORITHM	ALL (R)	ALTER (R)
ANALYZE (R)	AND (R)	ANY
AS (R)	ASC (R)	ASCII
ASENSITIVE (R)	AT ^b	AUTHORS
AUTOEXTEND_SIZE ^c	AUTO_INCREMENT	AVG
AVG_ROW_LENGTH	BACKUP	BDB ^d
BEFORE (R)	BEGIN	BERKELEYDB ^e
BETWEEN (R)	BIGINT (R)	BINARY (R)
BINLOG	BIT	BLOB (R)
BLOCK ^f	BOOL	BOOLEAN
BOTH (R)	BTREE	BY (R)
BYTE	CACHE	CALL (R)
CASCADE (R)	CASCADED	CASE (R)
CHAIN	CHANGE (R)	CHANGED
CHAR (R)	CHARACTER (R)	CHARSET
CHECK (R)	CHECKSUM	CIPHER
CLIENT	CLOSE	COALESCE
CODE	COLLATE (R)	COLLATION
COLUMN (R)	COLUMNS	COMMENT
COMMIT	COMMITTED	COMPACT
COMPLETION ^g	COMPRESSED	CONCURRENT
CONDITION (R)	CONNECTION ^h	CONSISTENT

CONSTRAINT (R)	CONTAINS	CONTEXT ⁱ
CONTINUE (R)	CONTRIBUTORS ^j	CONVERT (R)
CPU ^k	CREATE (R)	CROSS (R)
CUBE	CURRENT_DATE (R)	CURRENT_TIME (R)
CURRENT_TIMESTAMP (R)	CURRENT_USER (R)	CURSOR (R)
DATA	DATABASE (R)	DATABASES (R)
DATAFILE ^l	DATE	DATETIME
DAY	DAY_HOUR (R)	DAY_MICROSECOND (R)
DAY_MINUTE (R)	DAY_SECOND (R)	DEALLOCATE
DEC (R)	DECIMAL (R)	DECLARE (R)
DEFAULT (R)	DEFINER	DELAYED (R)
DELAY_KEY_WRITE	DELETE (R)	DESC (R)
DESCRIBE (R)	DES_KEY_FILE	DETERMINISTIC (R)
DIRECTORY	DISABLE	DISCARD
DISK ^m	DISTINCT (R)	DISTINCTROW (R)
DIV (R)	DO	DOUBLE (R)
DROP (R)	DUAL (R)	DUMPFIL
DUPLICATE	DYNAMIC	EACH (R)
ELSE (R)	ELSEIF (R)	ENABLE
ENCLOSED (R)	END	ENDS ⁿ
ENGINE	ENGINES	ENUM
ERRORS	ESCAPE	ESCAPED (R)
EVENT ^o	EVENTS	EVERY ^p
EXECUTE	EXISTS (R)	EXIT (R)
EXPANSION	EXPLAIN (R)	EXTENDED
EXTENT_SIZE ^q	FALSE (R)	FAST
FAULTS ^r	FETCH (R)	FIELDS
FILE	FIRST	FIXED
FLOAT (R)	FLOAT4 (R)	FLOAT8 (R)
FLUSH	FOR (R)	FORCE (R)
FOREIGN (R)	FOUND	FRAC_SECOND
FROM (R)	FULL	FULLTEXT (R)
FUNCTION	GEOMETRY	GEOMETRYCOLLECTION
GET_FORMAT	GLOBAL	GOTO ^s
GRANT (R)	GRANTS	GROUP (R)
HANDLER	HASH	HAVING (R)
HELP	HIGH_PRIORITY (R)	HOST ^t
HOSTS	HOURL	HOURL_MICROSECOND (R)
HOURL_MINUTE (R)	HOURL_SECOND (R)	IDENTIFIED

IF (R)	IGNORE (R)	IMPORT
IN (R)	INDEX (R)	INDEXES
INFILE (R)	INITIAL_SIZE ^u	INNER (R)
INNOBASE	INNODB	INOUT (R)
INSENSITIVE (R)	INSERT (R)	INSERT_METHOD
INSTALL	INT (R)	INT1 (R)
INT2 (R)	INT3 (R)	INT4 (R)
INT8 (R)	INTEGER (R)	INTERVAL (R)
INTO (R)	INVOKER	IO ^v
IO_THREAD	IPC ^w	IS (R)
ISOLATION	ISSUER	ITERATE (R)
JOIN (R)	KEY (R)	KEYS (R)
KEY_BLOCK_SIZE ^x	KILL (R)	LABEL ^y
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 ^z
LOGS	LONG (R)	LOBLOB (R)
LONGTEXT (R)	LOOP (R)	LOW_PRIORITY (R)
MASTER	MASTER_CONNECT_RETRY	MASTER_HOST
MASTER_LOG_FILE	MASTER_LOG_POS	MASTER_PASSWORD
MASTER_PORT	MASTER_SERVER_ID	MASTER_SSL
MASTER_SSL_CA	MASTER_SSL_CAPATH	MASTER_SSL_CERT
MASTER_SSL_CIPHER	MASTER_SSL_KEY	MASTER_SSL_VERIFY_SERVER_CERT ^{aa} (R)
MASTER_USER	MATCH (R)	MAXVALUE
MAX_CONNECTIONS_PER_HOUR	MAX_QUERIES_PER_HOUR	MAX_ROWS
MAX_SIZE ^{ab}	MAX_UPDATES_PER_HOUR	MAX_USER_CONNECTIONS
MEDIUM	MEDIUMBLOB (R)	MEDIUMINT (R)
MEDIUMTEXT (R)	MEMORY ^{ac}	MERGE
MICROSECOND	MIDDLEINT (R)	MIGRATE
MINUTE	MINUTE_MICROSECOND (R)	MINUTE_SECOND (R)
MIN_ROWS	MOD (R)	MODE
MODIFIES (R)	MODIFY	MONTH
MULTILINESTRING	MULTIPOINT	MULTIPOLYGON
MUTEX	NAME	NAMES

NATIONAL	NATURAL (R)	NCHAR
NDB	NDBCLUSTER	NEW
NEXT	NO	NODEGROUP
NONE	NOT (R)	NO_WAIT ^{ad}
NO_WRITE_TO_BINLOG (R)	NULL (R)	NUMERIC (R)
NVARCHAR	OFFSET	OLD_PASSWORD
ON (R)	ONE	ONE_SHOT
OPEN	OPTIMIZE (R)	OPTION (R)
OPTIONALLY (R)	OPTIONS ^{ae}	OR (R)
ORDER (R)	OUT (R)	OUTER (R)
OUTFILE (R)	OWNER ^{af}	PACK_KEYS
PAGE ^{ag}	PAGE_CHECKSUM ^{ah}	PARSER
PARTIAL	PARTITION	PARTITIONING ^{ai}
PARTITIONS	PASSWORD	PHASE
PLUGIN	PLUGINS ^{aj}	POINT
POLYGON	PORT ^{ak}	PRECISION (R)
PREPARE	PRESERVE ^{al}	PREV
PRIMARY (R)	PRIVILEGES	PROCEDURE (R)
PROCESSLIST	PROFILE ^{am}	PROFILES ^{an}
PURGE (R)	QUARTER	QUERY
QUICK	RAID ^{ao}	RAID_CHUNKS ^{ap}
RAID_CHUNKSIZE ^{aq}	RAID_TYPE ^{ar}	RANGE (R)
READ (R)	READS (R)	READ_ONLY ^{as}
READ_WRITE ^{at} (R)	REAL (R)	REBUILD ^{au}
RECOVER	REDOFILE ^{av}	REDO_BUFFER_SIZE ^{aw}
REDUNDANT	REFERENCES (R)	REGEXP (R)
RELAY_LOG_FILE	RELAY_LOG_POS	RELAY_THREAD
RELEASE (R)	RELOAD	REMOVE ^{ax}
RENAME (R)	REORGANISE ^{ay}	REORGANIZE ^{az}
REPAIR	REPEAT (R)	REPEATABLE
REPLACE (R)	REPLICATION	REQUIRE (R)
RESET	RESTORE	RESTRICT (R)
RESUME	RETURN (R)	RETURNS
REVOKE (R)	RIGHT (R)	RLIKE (R)
ROLLBACK	ROLLUP	ROUTINE
ROW	ROWS	ROW_FORMAT
RTREE	SAVEPOINT	SCHEDULE ^{ba}
SCHEDULER ^{bb}	SCHEMA (R)	SCHEMAS (R)
SECOND	SECOND_MICROSECOND (R)	SECURITY

SELECT (R)	SENSITIVE (R)	SEPARATOR (R)
SERIAL	SERIALIZABLE	SERVER ^{bc}
SESSION	SET (R)	SHARE
SHOW (R)	SHUTDOWN	SIGNED
SIMPLE	SLAVE	SMALLINT (R)
SNAPSHOT	SOCKET ^{bd}	SOME
SONAME	SOUNDS	SOURCE ^{be}
SPATIAL (R)	SPECIFIC (R)	SQL (R)
SQLEXCEPTION (R)	SQLSTATE (R)	SQLWARNING (R)
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_FRAC_SECOND
SQL_TSI_HOUR	SQL_TSI_MINUTE	SQL_TSI_MONTH
SQL_TSI_QUARTER	SQL_TSI_SECOND	SQL_TSI_WEEK
SQL_TSI_YEAR	SSL (R)	START
STARTING (R)	STARTS ^{bf}	STATUS
STOP	STORAGE	STRAIGHT_JOIN (R)
STRING	STRIPED ^{bg}	SUBJECT
SUBPARTITION	SUBPARTITIONS	SUPER
SUSPEND	SWAPS ^{bh}	SWITCHES ^{bi}
TABLE (R)	TABLES	TABLESPACE
TABLE_CHECKSUM ^{bj}	TEMPORARY	TEMPTABLE
TERMINATED (R)	TEXT	THAN
THEN (R)	TIME	TIMESTAMP
TIMESTAMPADD	TIMESTAMPDIFF	TINYBLOB (R)
TINYINT (R)	TINYTEXT (R)	TO (R)
TRAILING (R)	TRANSACTION	TRANSACTIONAL ^{bk}
TRIGGER (R)	TRIGGERS	TRUE (R)
TRUNCATE	TYPE	TYPES
UNCOMMITTED	UNDEFINED	UNDO (R)
UNDOFILE ^{bl}	UNDO_BUFFER_SIZE ^{bm}	UNICODE
UNINSTALL	UNION (R)	UNIQUE (R)
UNKNOWN	UNLOCK (R)	UNSIGNED (R)
UNTIL	UPDATE (R)	UPGRADE ^{bn}
USAGE (R)	USE (R)	USER
USER_RESOURCES	USE_FRM	USING (R)
UTC_DATE (R)	UTC_TIME (R)	UTC_TIMESTAMP (R)
VALUE	VALUES (R)	VARBINARY (R)
VARCHAR (R)	VARCHARACTER (R)	VARIABLES

VARYING (R)	VIEW	WAIT ^{bo}
WARNINGS	WEEK	WHEN (R)
WHERE (R)	WHILE (R)	WITH (R)
WORK	WRAPPER ^{bp}	WRITE (R)
X509	XA	XOR (R)
YEAR	YEAR_MONTH (R)	ZEROFILL (R)

^aACCESSIBLE: added in 5.1.6 (reserved)

^bAT: added in 5.1.6 (nonreserved)

^cAUTOEXTEND_SIZE: added in 5.1.6 (nonreserved)

^dBDB: removed in 5.1.12

^eBERKELEYDB: removed in 5.1.12

^fBLOCK: added in 5.1.24 (nonreserved)

^gCOMPLETION: added in 5.1.6 (nonreserved)

^hCONNECTION: became nonreserved in 5.1.16

ⁱCONTEXT: added in 5.1.24 (nonreserved)

^jCONTRIBUTORS: added in 5.1.12 (nonreserved)

^kCPU: added in 5.1.24 (nonreserved)

^lDATAFILE: added in 5.1.6 (nonreserved)

^mDISK: added in 5.1.6 (nonreserved)

ⁿENDS: added in 5.1.6 (nonreserved)

^oEVENT: added in 5.1.6 (nonreserved)

^pEVERY: added in 5.1.6 (nonreserved)

^qEXTENT_SIZE: added in 5.1.6 (nonreserved)

^rFAULTS: added in 5.1.24 (nonreserved)

^sGOTO: removed in 5.1.11

^tHOST: added in 5.1.15 (nonreserved)

^uINITIAL_SIZE: added in 5.1.6 (nonreserved)

^vIO: added in 5.1.24 (nonreserved)

^wIPC: added in 5.1.24 (nonreserved)

^xKEY_BLOCK_SIZE: added in 5.1.11 (nonreserved)

^yLABEL: removed in 5.1.11

^zLOGFILE: added in 5.1.6 (nonreserved)

^{aa}MASTER_SSL_VERIFY_SERVER_CERT: added in 5.1.18 (reserved)

^{ab}MAX_SIZE: added in 5.1.6 (nonreserved)

^{ac}MEMORY: added in 5.1.6 (nonreserved)

^{ad}NO_WAIT: added in 5.1.6 (nonreserved)

^{ae}OPTIONS: added in 5.1.15 (nonreserved)

^{af}OWNER: added in 5.1.15 (nonreserved)

^{ag}PAGE: added in 5.1.24 (nonreserved)

^{ah}PAGE_CHECKSUM: added in 5.1.24 (nonreserved); removed in 5.1.38

^{ai}PARTITIONING: added in 5.1.9 (nonreserved)

^{aj}PLUGINS: added in 5.1.9 (nonreserved)

^{ak}PORT: added in 5.1.15 (nonreserved)

^{al}PRESERVE: added in 5.1.6 (nonreserved)

^{am}PROFILE: added in 5.1.24 (nonreserved)

^{an}PROFILES: added in 5.1.24 (nonreserved)

^{ao}RAID0: removed in 5.1.7

^{ap}RAID_CHUNKS: removed in 5.1.7

^{aq}RAID_CHUNKSIZE: removed in 5.1.7

^{ar}RAID_TYPE: removed in 5.1.7

^{as}READ_ONLY: added in 5.1.6 (reserved); became nonreserved in 5.1.24

^{at}READ_WRITE: added in 5.1.6 (reserved)

^{au}REBUILD: added in 5.1.6 (nonreserved)

av **REDOFILE**: added in 5.1.6 (nonreserved)
aw **REDO_BUFFER_SIZE**: added in 5.1.6 (nonreserved)
ax **REMOVE**: added in 5.1.9 (nonreserved)
ay **REORGANIZE**: removed in 5.1.6
az **REORGANIZE**: added in 5.1.6 (nonreserved)
ba **SCHEDULE**: added in 5.1.6 (nonreserved)
bb **SCHEDULER**: added in 5.1.11 (nonreserved); removed in 5.1.12
bc **SERVER**: added in 5.1.15 (nonreserved)
bd **SOCKET**: added in 5.1.15 (nonreserved)
be **SOURCE**: added in 5.1.24 (nonreserved)
bf **STARTS**: added in 5.1.6 (nonreserved)
bg **STRIPED**: removed in 5.1.7
bh **SWAPS**: added in 5.1.24 (nonreserved)
bi **SWITCHES**: added in 5.1.24 (nonreserved)
bj **TABLE_CHECKSUM**: added in 5.1.24 (nonreserved)
bk **TRANSACTIONAL**: added in 5.1.24 (nonreserved); removed in 5.1.38
bl **UNDOFILE**: added in 5.1.6 (nonreserved)
bm **UNDO_BUFFER_SIZE**: added in 5.1.6 (nonreserved)
bn **UPGRADE**: added in 5.1.7 (reserved); became nonreserved in 5.1.12
bo **WAIT**: added in 5.1.6 (nonreserved)
bp **WRAPPER**: added in 5.1.15 (nonreserved)

The following table shows the keywords and reserved words that are new in MySQL 5.1. Reserved keywords are marked with (R).

Table 2.2 New Keywords and Reserved Words in MySQL 5.1

ACCESSIBLE (R)	AT	AUTHORS
AUTOEXTEND_SIZE	COALESCE	COMPLETION
CONTRIBUTORS	DATAFILE	DISK
ENDS	EVENT	EVERY
EXTENT_SIZE	HOST	INITIAL_SIZE
INSTALL	KEY_BLOCK_SIZE	LESS
LINEAR (R)	LIST	LOGFILE
MASTER_SSL_VERIFY_SERVER_CERT (R)	MAXVALUE	MAX_SIZE
NODEGROUP	NO_WAIT	OPTIONS
OWNER	PARSER	PARTITION
PARTITIONING	PARTITIONS	PLUGIN
PLUGINS	PORT	PRESERVE
RANGE (R)	READ_ONLY	READ_WRITE (R)
REBUILD	REDOFILE	REDO_BUFFER_SIZE
REMOVE	REORGANIZE	SCHEDULE
SERVER	SOCKET	STARTS
SUBPARTITION	SUBPARTITIONS	TABLE_CHECKSUM
THAN	UNDOFILE	UNDO_BUFFER_SIZE
UNINSTALL	WAIT	WRAPPER

2.2 Keywords and Reserved Words in MySQL 5.5

The following table shows the keywords and reserved words in MySQL 5.5, along with changes to individual words from version to version. Reserved keywords are marked with (R).

Table 2.3 Keywords and Reserved Words in MySQL 5.5

ACCESSIBLE (R)	ACTION	ADD (R)
AFTER	AGAINST	AGGREGATE
ALGORITHM	ALL (R)	ALTER (R)
ANALYZE (R)	AND (R)	ANY
AS (R)	ASC (R)	ASCII
ASENSITIVE (R)	AT	AUTHORS
AUTOEXTEND_SIZE	AUTO_INCREMENT	AVG
AVG_ROW_LENGTH	BACKUP	BEFORE (R)
BEGIN	BETWEEN (R)	BIGINT (R)
BINARY (R)	BINLOG	BIT
BLOB (R)	BLOCK	BOOL
BOOLEAN	BOTH (R)	BTREE
BY (R)	BYTE	CACHE
CALL (R)	CASCADE (R)	CASCADE
CASE (R)	CATALOG_NAME	CHAIN
CHANGE (R)	CHANGED	CHAR (R)
CHARACTER (R)	CHARSET	CHECK (R)
CHECKSUM	CIPHER	CLASS_ORIGIN
CLIENT	CLOSE	COALESCE
CODE	COLLATE (R)	COLLATION
COLUMN (R)	COLUMNS	COLUMN_NAME
COMMENT	COMMIT	COMMITTED
COMPACT	COMPLETION	COMPRESSED
CONCURRENT	CONDITION (R)	CONNECTION
CONSISTENT	CONSTRAINT (R)	CONSTRAINT_CATALOG
CONSTRAINT_NAME	CONSTRAINT_SCHEMA	CONTAINS
CONTEXT	CONTINUE (R)	CONTRIBUTORS
CONVERT (R)	CPU	CREATE (R)
CROSS (R)	CUBE	CURRENT_DATE (R)
CURRENT_TIME (R)	CURRENT_TIMESTAMP (R)	CURRENT_USER (R)
CURSOR (R)	CURSOR_NAME	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)
DEFINER	DELAYED (R)	DELAY_KEY_WRITE
DELETE (R)	DESC (R)	DESCRIBE (R)
DES_KEY_FILE	DETERMINISTIC (R)	DIRECTORY
DISABLE	DISCARD	DISK
DISTINCT (R)	DISTINCTROW (R)	DIV (R)
DO	DOUBLE (R)	DROP (R)
DUAL (R)	DUMPFIL	DUPLICATE
DYNAMIC	EACH (R)	ELSE (R)
ELSEIF (R)	ENABLE	ENCLOSED (R)
END	ENDS	ENGINE
ENGINES	ENUM	ERROR ^a
ERRORS	ESCAPE	ESCAPED (R)
EVENT	EVENTS	EVERY
EXECUTE	EXISTS (R)	EXIT (R)
EXPANSION	EXPLAIN (R)	EXTENDED
EXTENT_SIZE	FALSE (R)	FAST
FAULTS	FETCH (R)	FIELDS
FILE	FIRST	FIXED
FLOAT (R)	FLOAT4 (R)	FLOAT8 (R)
FLUSH	FOR (R)	FORCE (R)
FOREIGN (R)	FOUND	FRAC_SECOND ^b
FROM (R)	FULL	FULLTEXT (R)
FUNCTION	GENERAL ^c	GEOMETRY
GEOMETRYCOLLECTION	GET_FORMAT	GLOBAL
GRANT (R)	GRANTS	GROUP (R)
HANDLER	HASH	HAVING (R)
HELP	HIGH_PRIORITY (R)	HOST
HOSTS	HOURL	HOURL_MICROSECOND (R)
HOURL_MINUTE (R)	HOURL_SECOND (R)	IDENTIFIED
IF (R)	IGNORE (R)	IGNORE_SERVER_IDS ^d
IMPORT	IN (R)	INDEX (R)
INDEXES	INFILE (R)	INITIAL_SIZE
INNER (R)	INNOBASE ^e	INNODB ^f
INOUT (R)	INSENSITIVE (R)	INSERT (R)
INSERT_METHOD	INSTALL	INT (R)
INT1 (R)	INT2 (R)	INT3 (R)
INT4 (R)	INT8 (R)	INTEGER (R)

INTERVAL (R)	INTO (R)	INVOKER
IO	IO_THREAD	IPC
IS (R)	ISOLATION	ISSUER
ITERATE (R)	JOIN (R)	KEY (R)
KEYS (R)	KEY_BLOCK_SIZE	KILL (R)
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)
MASTER	MASTER_CONNECT_RETRY	MASTER_HEARTBEAT_PERIOD ^g
MASTER_HOST	MASTER_LOG_FILE	MASTER_LOG_POS
MASTER_PASSWORD	MASTER_PORT	MASTER_SERVER_ID
MASTER_SSL	MASTER_SSL_CA	MASTER_SSL_CAPATH
MASTER_SSL_CERT	MASTER_SSL_CIPHER	MASTER_SSL_KEY
MASTER_SSL_VERIFY_SERVER_CERT (R)	MASTER_USER	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)	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	NAME	NAMES
NATIONAL	NATURAL (R)	NCHAR
NDB	NDBCLUSTER	NEW
NEXT	NO	NODEGROUP
NONE	NOT (R)	NO_WAIT
NO_WRITE_TO_BINLOG (R)	NULL (R)	NUMERIC (R)
NVARCHAR	OFFSET	OLD_PASSWORD
ON (R)	ONE	ONE_SHOT

OPEN	OPTIMIZE (R)	OPTION (R)
OPTIONALLY (R)	OPTIONS	OR (R)
ORDER (R)	OUT (R)	OUTER (R)
OUTFILE (R)	OWNER	PACK_KEYS
PAGE	PARSER	PARTIAL
PARTITION	PARTITIONING	PARTITIONS
PASSWORD	PHASE	PLUGIN
PLUGINS	POINT	POLYGON
PORT	PRECISION (R)	PREPARE
PRESERVE	PREV	PRIMARY (R)
PRIVILEGES	PROCEDURE (R)	PROCESSLIST
PROFILE	PROFILES	PROXY ^h
PURGE (R)	QUARTER	QUERY
QUICK	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 ⁱ
RELAYLOG	RELAY_LOG_FILE	RELAY_LOG_POS
RELAY_THREAD	RELEASE (R)	RELOAD
REMOVE	RENAME (R)	REORGANIZE
REPAIR	REPEAT (R)	REPEATABLE
REPLACE (R)	REPLICATION	REQUIRE (R)
RESET	RESIGNAL (R)	RESTORE
RESTRICT (R)	RESUME	RETURN (R)
RETURNS	REVOKE (R)	RIGHT (R)
RLIKE (R)	ROLLBACK	ROLLUP
ROUTINE	ROW	ROWS
ROW_FORMAT	RTREE	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 ^j	SMALLINT (R)
SNAPSHOT	SOCKET	SOME
SONAME	SOUNDS	SOURCE

SPATIAL (R)	SPECIFIC (R)	SQL (R)
SQLEXCEPTION (R)	SQLSTATE (R)	SQLWARNING (R)
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_FRAC_SECOND ^k
SQL_TSI_HOUR	SQL_TSI_MINUTE	SQL_TSI_MONTH
SQL_TSI_QUARTER	SQL_TSI_SECOND	SQL_TSI_WEEK
SQL_TSI_YEAR	SSL (R)	START
STARTING (R)	STARTS	STATUS
STOP	STORAGE	STRAIGHT_JOIN (R)
STRING	SUBCLASS_ORIGIN	SUBJECT
SUBPARTITION	SUBPARTITIONS	SUPER
SUSPEND	SWAPS	SWITCHES
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
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)
VALUE	VALUES (R)	VARBINARY (R)
VARCHAR (R)	VARCHARACTER (R)	VARIABLES
VARYING (R)	VIEW	WAIT
WARNINGS	WEEK	WHEN (R)
WHERE (R)	WHILE (R)	WITH (R)
WORK	WRAPPER	WRITE (R)
X509	XA	XML
XOR (R)	YEAR	YEAR_MONTH (R)

ZEROFILL (R)		
^a ERROR: added in 5.5.3 (nonreserved)		
^b FRAC_SECOND: removed in 5.5.3		
^c GENERAL: added in 5.5.3 (reserved); became nonreserved in 5.5.8		
^d IGNORE_SERVER_IDS: became nonreserved in 5.5.8		
^e INNOBASE: removed in 5.5.3		
^f INNODB: removed in 5.5.3		
^g MASTER_HEARTBEAT_PERIOD: became nonreserved in 5.5.8		
^h PROXY: added in 5.5.7 (nonreserved)		
ⁱ RELAY: added in 5.5.3 (nonreserved)		
^j SLOW: added in 5.5.3 (reserved); became nonreserved in 5.5.8		
^k SQL_TSI_FRAC_SECOND: removed in 5.5.3		

The following table shows the keywords and reserved words that are new in MySQL 5.5. Reserved keywords are marked with (R).

Table 2.4 New Keywords and Reserved Words in MySQL 5.5

CATALOG_NAME	CLASS_ORIGIN	COLUMN_NAME
CONSTRAINT_CATALOG	CONSTRAINT_NAME	CONSTRAINT_SCHEMA
CURSOR_NAME	ERROR	GENERAL
IGNORE_SERVER_IDS	MASTER_HEARTBEAT_PERIOD	MESSAGE_TEXT
MYSQL_ERRNO	PROXY	RELAY
RELAYLOG	RESIGNAL (R)	SCHEMA_NAME
SIGNAL (R)	SLOW	SUBCLASS_ORIGIN
TABLE_NAME	XML	

2.3 Keywords and Reserved Words in MySQL 5.6

The following table shows the keywords and reserved words in MySQL 5.6, along with changes to individual words from version to version. Reserved keywords are marked with (R).

Table 2.5 Keywords and Reserved Words in MySQL 5.6

ACCESSIBLE (R)	ACTION	ADD (R)
AFTER	AGAINST	AGGREGATE
ALGORITHM	ALL (R)	ALTER (R)
ANALYSE ^a	ANALYZE (R)	AND (R)
ANY	AS (R)	ASC (R)
ASCII	ASENSITIVE (R)	AT
AUTHORS ^b	AUTOEXTEND_SIZE	AUTO_INCREMENT
AVG	AVG_ROW_LENGTH	BACKUP
BEFORE (R)	BEGIN	BETWEEN (R)
BIGINT (R)	BINARY (R)	BINLOG
BIT	BLOB (R)	BLOCK
BOOL	BOOLEAN	BOTH (R)
BTREE	BY (R)	BYTE
CACHE	CALL (R)	CASCADE (R)

CASCADED	CASE (R)	CATALOG_NAME
CHAIN	CHANGE (R)	CHANGED
CHAR (R)	CHARACTER (R)	CHARSET
CHECK (R)	CHECKSUM	CIPHER
CLASS_ORIGIN	CLIENT	CLOSE
COALESCE	CODE	COLLATE (R)
COLLATION	COLUMN (R)	COLUMNS
COLUMN_FORMAT ^c	COLUMN_NAME	COMMENT
COMMIT	COMMITTED	COMPACT
COMPLETION	COMPRESSED	CONCURRENT
CONDITION (R)	CONNECTION	CONSISTENT
CONSTRAINT (R)	CONSTRAINT_CATALOG	CONSTRAINT_NAME
CONSTRAINT_SCHEMA	CONTAINS	CONTEXT
CONTINUE (R)	CONTRIBUTORS ^d	CONVERT (R)
CPU	CREATE (R)	CROSS (R)
CUBE	CURRENT ^e	CURRENT_DATE (R)
CURRENT_TIME (R)	CURRENT_TIMESTAMP (R)	CURRENT_USER (R)
CURSOR (R)	CURSOR_NAME	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 ^f	DEFINER	DELAYED (R)
DELAY_KEY_WRITE	DELETE (R)	DESC (R)
DESCRIBE (R)	DES_KEY_FILE	DETERMINISTIC (R)
DIAGNOSTICS ^g	DIRECTORY	DISABLE
DISCARD	DISK	DISTINCT (R)
DISTINCTROW (R)	DIV (R)	DO
DOUBLE (R)	DROP (R)	DUAL (R)
DUMPFIL	DUPLICATE	DYNAMIC
EACH (R)	ELSE (R)	ELSEIF (R)
ENABLE	ENCLOSED (R)	END
ENDS	ENGINE	ENGINES
ENUM	ERROR	ERRORS
ESCAPE	ESCAPED (R)	EVENT
EVENTS	EVERY	EXCHANGE
EXECUTE	EXISTS (R)	EXIT (R)
EXPANSION	EXPIRE ^h	EXPLAIN (R)

EXPORT ⁱ	EXTENDED	EXTENT_SIZE
FALSE (R)	FAST	FAULTS
FETCH (R)	FIELDS	FILE
FIRST	FIXED	FLOAT (R)
FLOAT4 (R)	FLOAT8 (R)	FLUSH
FOR (R)	FORCE (R)	FOREIGN (R)
FORMAT ^j	FOUND	FROM (R)
FULL	FULLTEXT (R)	FUNCTION
GENERAL ^k	GEOMETRY	GEOMETRYCOLLECTION
GET ^l (R)	GET_FORMAT	GLOBAL
GRANT (R)	GRANTS	GROUP (R)
HANDLER	HASH	HAVING (R)
HELP	HIGH_PRIORITY (R)	HOST
HOSTS	HOURL	HOURL_MICROSECOND (R)
HOURL_MINUTE (R)	HOURL_SECOND (R)	IDENTIFIED
IF (R)	IGNORE (R)	IGNORE_SERVER_IDS ^m
IMPORT	IN (R)	INDEX (R)
INDEXES	INFILE (R)	INITIAL_SIZE
INNER (R)	INOUT (R)	INSENSITIVE (R)
INSERT (R)	INSERT_METHOD	INSTALL
INT (R)	INT1 (R)	INT2 (R)
INT3 (R)	INT4 (R)	INT8 (R)
INTEGER (R)	INTERVAL (R)	INTO (R)
INVOKER	IO	IO_AFTER_GTIDS ⁿ (R)
IO_BEFORE_GTIDS ^o (R)	IO_THREAD	IPC
IS (R)	ISOLATION	ISSUER
ITERATE (R)	JOIN (R)	KEY (R)
KEYS (R)	KEY_BLOCK_SIZE	KILL (R)
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)
MASTER	MASTER_AUTO_POSITION ^p	MASTER_BIND ^q (R)
MASTER_CONNECT_RETRY	MASTER_DELAY	MASTER_HEARTBEAT_PERIOD ^r

MASTER_HOST	MASTER_LOG_FILE	MASTER_LOG_POS
MASTER_PASSWORD	MASTER_PORT	MASTER_RETRY_COUNT ^s
MASTER_SERVER_ID	MASTER_SSL	MASTER_SSL_CA
MASTER_SSL_CAPATH	MASTER_SSL_CERT	MASTER_SSL_CIPHER
MASTER_SSL_CRL ^t	MASTER_SSL_CRLPATH ^u	MASTER_SSL_KEY
MASTER_SSL_VERIFY_SERVER_CERT ^v	MASTER_USER	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)	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	NAME	NAMES
NATIONAL	NATURAL (R)	NCHAR
NDB	NDBCLUSTER	NEW
NEXT	NO	NODEGROUP
NONE	NOT (R)	NO_WAIT
NO_WRITE_TO_BINLOG (R)	NULL (R)	NUMBER ^v
NUMERIC (R)	NVARCHAR	OFFSET
OLD_PASSWORD	ON (R)	ONE
ONE_SHOT ^w	ONLY ^x	OPEN
OPTIMIZE (R)	OPTION (R)	OPTIONALLY (R)
OPTIONS	OR (R)	ORDER (R)
OUT (R)	OUTER (R)	OUTFILE (R)
OWNER	PACK_KEYS	PAGE
PARSER	PARTIAL	PARTITION ^y (R)
PARTITIONING	PARTITIONS	PASSWORD
PHASE	PLUGIN	PLUGINS
PLUGIN_DIR ^z	POINT	POLYGON
PORT	PRECISION (R)	PREPARE
PRESERVE	PREV	PRIMARY (R)
PRIVILEGES	PROCEDURE (R)	PROCESSLIST
PROFILE	PROFILES	PROXY ^{aa}
PURGE (R)	QUARTER	QUERY

QUICK	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)	REPLICATION	REQUIRE (R)
RESET	RESIGNAL (R)	RESTORE
RESTRICT (R)	RESUME	RETURN (R)
RETURNED_SQLSTATE ^{ab}	RETURNS	REVERSE
REVOKE (R)	RIGHT (R)	RLIKE (R)
ROLLBACK	ROLLUP	ROUTINE
ROW	ROWS	ROW_COUNT ^{ac}
ROW_FORMAT	RTREE	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 ^{ad}	SMALLINT (R)
SNAPSHOT	SOCKET	SOME
SONAME	SOUNDS	SOURCE
SPATIAL (R)	SPECIFIC (R)	SQL (R)
SQLEXCEPTION (R)	SQLSTATE (R)	SQLWARNING (R)
SQL_AFTER_GTIDS ^{ae}	SQL_AFTER_MTS_GAPS ^{af}	SQL_BEFORE_GTIDS ^{ag}
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)	START	STARTING (R)
STARTS	STATS_AUTO_RECALC ^{ah}	STATS_PERSISTENT ^{ai}
STATS_SAMPLE_PAGES ^{aj}	STATUS	STOP
STORAGE	STRAIGHT_JOIN (R)	STRING

SUBCLASS_ORIGIN	SUBJECT	SUBPARTITION
SUBPARTITIONS	SUPER	SUSPEND
SWAPS	SWITCHES	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	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)	VALUE
VALUES (R)	VARBINARY (R)	VARCHAR (R)
VARCHARACTER (R)	VARIABLES	VARYING (R)
VIEW	WAIT	WARNINGS
WEEK	WEIGHT_STRING	WHEN (R)
WHERE (R)	WHILE (R)	WITH (R)
WORK	WRAPPER	WRITE (R)
X509	XA	XML
XOR (R)	YEAR	YEAR_MONTH (R)
ZEROFILL (R)		

^aANALYSE: added in 5.6.6 (nonreserved)^bAUTHORS: removed in 5.6.8^cCOLUMN_FORMAT: added in 5.6.6 (nonreserved)^dCONTRIBUTORS: removed in 5.6.8^eCURRENT: added in 5.6.4 (nonreserved)^fDEFAULT_AUTH: added in 5.6.4 (nonreserved)^gDIAGNOSTICS: added in 5.6.4 (nonreserved)^hEXPIRE: added in 5.6.6 (nonreserved)ⁱEXPORT: added in 5.6.6 (nonreserved)^jFORMAT: added in 5.6.5 (nonreserved)^kGENERAL: became nonreserved in 5.6.1^lGET: added in 5.6.4 (reserved)^mIGNORE_SERVER_IDS: became nonreserved in 5.6.1ⁿIO_AFTER_GTIDS: added in 5.6.5 (reserved)

^o**IO_BEFORE_GTIDS**: added in 5.6.5 (reserved)
^p**MASTER_AUTO_POSITION**: added in 5.6.5 (nonreserved)
^q**MASTER_BIND**: added in 5.6.1 (reserved)
^r**MASTER_HEARTBEAT_PERIOD**: became nonreserved in 5.6.1
^s**MASTER_RETRY_COUNT**: added in 5.6.1 (nonreserved)
^t**MASTER_SSL_CRL**: added in 5.6.3 (nonreserved)
^u**MASTER_SSL_CRLPATH**: added in 5.6.3 (nonreserved)
^v**NUMBER**: added in 5.6.4 (nonreserved)
^w**ONE_SHOT**: became reserved in 5.6.1; removed in 5.6.5
^x**ONLY**: added in 5.6.5 (nonreserved)
^y**PARTITION**: became reserved in 5.6.2
^z**PLUGIN_DIR**: added in 5.6.4 (nonreserved)
^{aa}**PROXY**: added in 5.6.1 (nonreserved)
^{ab}**RETURNED_SQLSTATE**: added in 5.6.4 (nonreserved)
^{ac}**ROW_COUNT**: added in 5.6.4 (nonreserved)
^{ad}**SLOW**: became nonreserved in 5.6.1
^{ae}**SQL_AFTER_GTIDS**: added in 5.6.5 (reserved); became nonreserved in 5.6.6
^{af}**SQL_AFTER_MTS_GAPS**: added in 5.6.6 (nonreserved)
^{ag}**SQL_BEFORE_GTIDS**: added in 5.6.5 (reserved); became nonreserved in 5.6.6
^{ah}**STATS_AUTO_RECALC**: added in 5.6.6 (nonreserved)
^{ai}**STATS_PERSISTENT**: added in 5.6.6 (nonreserved)
^{aj}**STATS_SAMPLE_PAGES**: added in 5.6.6 (nonreserved)

The following table shows the keywords and reserved words that are new in MySQL 5.6. Reserved keywords are marked with (R).

Table 2.6 New Keywords and Reserved Words in MySQL 5.6

ANALYSE	COLUMN_FORMAT	CURRENT
DEFAULT_AUTH	DIAGNOSTICS	EXCHANGE
EXPIRE	EXPORT	FORMAT
GET (R)	IO_AFTER_GTIDS (R)	IO_BEFORE_GTIDS (R)
MASTER_AUTO_POSITION	MASTER_BIND (R)	MASTER_DELAY
MASTER_RETRY_COUNT	MASTER_SSL_CRL	MASTER_SSL_CRLPATH
NUMBER	ONLY	PLUGIN_DIR
RETURNED_SQLSTATE	REVERSE	ROW_COUNT
SQL_AFTER_GTIDS	SQL_AFTER_MTS_GAPS	SQL_BEFORE_GTIDS
STATS_AUTO_RECALC	STATS_PERSISTENT	STATS_SAMPLE_PAGES
WEIGHT_STRING		

2.4 Keywords and Reserved Words in MySQL 5.7

The following table 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).

Table 2.7 Keywords and Reserved Words in MySQL 5.7

ACCESSIBLE (R)	ACCOUNT^a	ACTION
ADD (R)	AFTER	AGAINST
AGGREGATE	ALGORITHM	ALL (R)
ALTER (R)	ALWAYS^b	ANALYSE

ANALYZE (R)	AND (R)	ANY
AS (R)	ASC (R)	ASCII
ASENSITIVE (R)	AT	AUTOEXTEND_SIZE
AUTO_INCREMENT	AVG	AVG_ROW_LENGTH
BACKUP	BEFORE (R)	BEGIN
BETWEEN (R)	BIGINT (R)	BINARY (R)
BINLOG	BIT	BLOB (R)
BLOCK	BOOL	BOOLEAN
BOTH (R)	BTREE	BY (R)
BYTE	CACHE	CALL (R)
CASCADE (R)	CASCADED	CASE (R)
CATALOG_NAME	CHAIN	CHANGE (R)
CHANGED	CHANNEL ^c	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 ^d	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	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)	DUMPFIL
DUPLICATE	DYNAMIC	EACH (R)
ELSE (R)	ELSEIF (R)	ENABLE
ENCLOSED (R)	ENCRYPTION ^e	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
FALSE (R)	FAST	FAULTS
FETCH (R)	FIELDS	FILE
FILE_BLOCK_SIZE ^f	FILTER ^g	FIRST
FIXED	FLOAT (R)	FLOAT4 (R)
FLOAT8 (R)	FLUSH	FOLLOWS ^h
FOR (R)	FORCE (R)	FOREIGN (R)
FORMAT	FOUND	FROM (R)
FULL	FULLTEXT (R)	FUNCTION
GENERAL	GENERATED ⁱ (R)	GEOMETRY
GEOMETRYCOLLECTION	GET (R)	GET_FORMAT
GLOBAL	GRANT (R)	GRANTS
GROUP (R)	GROUP_REPLICATION ^j	HANDLER
HASH	HAVING (R)	HELP
HIGH_PRIORITY (R)	HOST	HOSTS
HOUR	HOUR_MICROSECOND (R)	HOUR_MINUTE (R)
HOUR_SECOND (R)	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 ^k
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)	JOIN (R)	JSON ^l
KEY (R)	KEYS (R)	KEY_BLOCK_SIZE
KILL (R)	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)	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 ^m
MASTER_USER	MATCH (R)	MAXVALUE (R)
MAX_CONNECTIONS_PER_HOUR	MAX_QUERIES_PER_HOUR	MAX_ROWS
MAX_SIZE	MAX_STATEMENT_TIME ⁿ	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	NAME	NAMES
NATIONAL	NATURAL (R)	NCHAR
NDB	NDBCLUSTER	NEVER ^o
NEW	NEXT	NO
NODEGROUP	NONBLOCKING ^p	NONE
NOT (R)	NO_WAIT	NO_WRITE_TO_BINLOG (R)
NULL (R)	NUMBER	NUMERIC (R)
NVARCHAR	OFFSET	OLD_PASSWORD ^q

ON (R)	ONE	ONLY
OPEN	OPTIMIZE (R)	OPTIMIZER_COSTS ^r (R)
OPTION (R)	OPTIONALLY (R)	OPTIONS
OR (R)	ORDER (R)	OUT (R)
OUTER (R)	OUTFILE (R)	OWNER
PACK_KEYS	PAGE	PARSER
PARSE_GCOL_EXPR ^s	PARTIAL	PARTITION (R)
PARTITIONING	PARTITIONS	PASSWORD
PHASE	PLUGIN	PLUGINS
PLUGIN_DIR	POINT	POLYGON
PORT	PRECEDES ^t	PRECISION (R)
PREPARE	PRESERVE	PREV
PRIMARY (R)	PRIVILEGES	PROCEDURE (R)
PROCESSLIST	PROFILE	PROFILES
PROXY	PURGE (R)	QUARTER
QUERY	QUICK	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 ^u
REPLICATE_DO_TABLE ^v	REPLICATE_IGNORE_DB ^w	REPLICATE_IGNORE_TABLE ^x
REPLICATE_REWRITE_DB ^y	REPLICATE_WILD_DO_TABLE ^z	REPLICATE_WILD_IGNORE_TABLE ^{aa}
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 ^{ab}	ROUTINE
ROW	ROWS	ROW_COUNT
ROW_FORMAT	RTREE	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)
SQL_EXCEPTION (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 ^{ac} (R)
STRAIGHT_JOIN (R)	STRING	SUBCLASS_ORIGIN
SUBJECT	SUBPARTITION	SUBPARTITIONS
SUPER	SUSPEND	SWAPS
SWITCHES	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	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)	VALIDATION ^{ad}	VALUE

VALUES (R)	VARBINARY (R)	VARCHAR (R)
VARCHARACTER (R)	VARIABLES	VARYING (R)
VIEW	VIRTUAL ^{ae} (R)	WAIT
WARNINGS	WEEK	WEIGHT_STRING
WHEN (R)	WHERE (R)	WHILE (R)
WITH (R)	WITHOUT ^{af}	WORK
WRAPPER	WRITE (R)	X509
XA	XID ^{ag}	XML
XOR (R)	YEAR	YEAR_MONTH (R)
ZEROFILL (R)		

^aACCOUNT: added in 5.7.6 (nonreserved)

^bALWAYS: added in 5.7.6 (nonreserved)

^cCHANNEL: added in 5.7.6 (nonreserved)

^dCOMPRESSION: added in 5.7.8 (nonreserved)

^eENCRYPTION: added in 5.7.11 (nonreserved)

^fFILE_BLOCK_SIZE: added in 5.7.6 (nonreserved)

^gFILTER: added in 5.7.3 (nonreserved)

^hFOLLOWS: added in 5.7.2 (nonreserved)

ⁱGENERATED: added in 5.7.6 (reserved)

^jGROUP_REPLICATION: added in 5.7.6 (nonreserved)

^kINSTANCE: added in 5.7.11 (nonreserved)

^lJSON: added in 5.7.8 (nonreserved)

^mMASTER_TLS_VERSION: added in 5.7.10 (nonreserved)

ⁿMAX_STATEMENT_TIME: added in 5.7.4 (nonreserved); removed in 5.7.8

^oNEVER: added in 5.7.4 (nonreserved)

^pNONBLOCKING: removed in 5.7.6

^qOLD_PASSWORD: removed in 5.7.5

^rOPTIMIZER_COSTS: added in 5.7.5 (reserved)

^sPARSE_GCOL_EXPR: added in 5.7.6 (reserved); became nonreserved in 5.7.8

^tPRECEDES: added in 5.7.2 (nonreserved)

^uREPLICATE_DO_DB: added in 5.7.3 (nonreserved)

^vREPLICATE_DO_TABLE: added in 5.7.3 (nonreserved)

^wREPLICATE_IGNORE_DB: added in 5.7.3 (nonreserved)

^xREPLICATE_IGNORE_TABLE: added in 5.7.3 (nonreserved)

^yREPLICATE_REWRITE_DB: added in 5.7.3 (nonreserved)

^zREPLICATE_WILD_DO_TABLE: added in 5.7.3 (nonreserved)

^{aa}REPLICATE_WILD_IGNORE_TABLE: added in 5.7.3 (nonreserved)

^{ab}ROTATE: added in 5.7.11 (nonreserved)

^{ac}STORED: added in 5.7.6 (reserved)

^{ad}VALIDATION: added in 5.7.5 (nonreserved)

^{ae}VIRTUAL: added in 5.7.6 (reserved)

^{af}WITHOUT: added in 5.7.5 (nonreserved)

^{ag}XID: added in 5.7.5 (nonreserved)

The following table shows the keywords and reserved words that are new in MySQL 5.7. Reserved keywords are marked with (R).

Table 2.8 New Keywords and Reserved Words in MySQL 5.7

ACCOUNT	ALWAYS	CHANNEL
COMPRESSION	ENCRYPTION	FILE_BLOCK_SIZE

FILTER	FOLLOWS	GENERATED (R)
GROUP_REPLICATION	INSTANCE	JSON
MASTER_TLS_VERSION	NEVER	OPTIMIZER_COSTS (R)
PARSE_GCOL_EXPR	PRECEDES	REPLICATE_DO_DB
REPLICATE_DO_TABLE	REPLICATE_IGNORE_DB	REPLICATE_IGNORE_TABLE
REPLICATE_REWRITE_DB	REPLICATE_WILD_DO_TABLE	REPLICATE_WILD_IGNORE_TABLE
ROTATE	STACKED	STORED (R)
VALIDATION	VIRTUAL (R)	WITHOUT
XID		

Chapter 3 Functions and Operators

The following table provides a list of all the functions and operators supported across MySQL 5.1, 5.5, 5.6, and 5.7.

Table 3.1 Operators/Functions Reference

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
ABS()			Yes	Yes	Yes	Yes
ACOS()			Yes	Yes	Yes	Yes
ADDDATE()			Yes	Yes	Yes	Yes
ADDTIME()			Yes	Yes	Yes	Yes
AES_DECRYPT()			Yes	Yes	Yes	Yes
AES_ENCRYPT()			Yes	Yes	Yes	Yes
AND, &&			Yes	Yes	Yes	Yes
ANY_VALUE()	5.7.5					Yes
Area()		5.7.6	Yes	Yes	Yes	Yes
AsBinary(), AsWKB()		5.7.6	Yes	Yes	Yes	Yes
ASCII()			Yes	Yes	Yes	Yes
ASIN()			Yes	Yes	Yes	Yes
=			Yes	Yes	Yes	Yes
:=			Yes	Yes	Yes	Yes
AsText(), AsWKT()		5.7.6	Yes	Yes	Yes	Yes
ASYMMETRIC_DECRYPT()	5.6.21, 5.7.9				Yes	Yes
ASYMMETRIC_DERIVE()	5.6.21, 5.7.9				Yes	Yes
ASYMMETRIC_ENCRYPT()	5.6.21, 5.7.9				Yes	Yes
ASYMMETRIC_SIGN()	5.6.21, 5.7.9				Yes	Yes
ASYMMETRIC_VERIFY()	5.6.21, 5.7.9				Yes	Yes
ATAN()			Yes	Yes	Yes	Yes
ATAN2(), ATAN()			Yes	Yes	Yes	Yes
AVG()			Yes	Yes	Yes	Yes
BENCHMARK()			Yes	Yes	Yes	Yes
BETWEEN ... AND ...			Yes	Yes	Yes	Yes
BIN()			Yes	Yes	Yes	Yes
BINARY			Yes	Yes	Yes	Yes
BIT_AND()			Yes	Yes	Yes	Yes
BIT_COUNT()			Yes	Yes	Yes	Yes
BIT_LENGTH()			Yes	Yes	Yes	Yes
BIT_OR()			Yes	Yes	Yes	Yes
BIT_XOR()			Yes	Yes	Yes	Yes
&			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
~			Yes	Yes	Yes	Yes
			Yes	Yes	Yes	Yes
^			Yes	Yes	Yes	Yes
Buffer()	5.6.1	5.7.6			Yes	Yes
CASE			Yes	Yes	Yes	Yes
CAST()			Yes	Yes	Yes	Yes
CEIL()			Yes	Yes	Yes	Yes
CEILING()			Yes	Yes	Yes	Yes
Centroid()		5.7.6	Yes	Yes	Yes	Yes
CHAR()			Yes	Yes	Yes	Yes
CHAR_LENGTH()			Yes	Yes	Yes	Yes
CHARACTER_LENGTH()			Yes	Yes	Yes	Yes
CHARSET()			Yes	Yes	Yes	Yes
COALESCE()			Yes	Yes	Yes	Yes
COERCIBILITY()			Yes	Yes	Yes	Yes
COLLATION()			Yes	Yes	Yes	Yes
COMPRESS()			Yes	Yes	Yes	Yes
CONCAT()			Yes	Yes	Yes	Yes
CONCAT_WS()			Yes	Yes	Yes	Yes
CONNECTION_ID()			Yes	Yes	Yes	Yes
Contains()		5.7.6	Yes	Yes	Yes	Yes
CONV()			Yes	Yes	Yes	Yes
CONVERT()			Yes	Yes	Yes	Yes
CONVERT_TZ()			Yes	Yes	Yes	Yes
ConvexHull()	5.7.5	5.7.6				Yes
COS()			Yes	Yes	Yes	Yes
COT()			Yes	Yes	Yes	Yes
COUNT()			Yes	Yes	Yes	Yes
COUNT(DISTINCT)			Yes	Yes	Yes	Yes
CRC32()			Yes	Yes	Yes	Yes
CREATEASYMMETRICPRIVKEY()	5.6.21, 5.7.9				Yes	Yes
CREATEASYMMETRICPUBKEY()	5.6.21, 5.7.9				Yes	Yes
CREATE_DH_PARAMETERS()	5.6.21, 5.7.9				Yes	Yes
CREATE_DIGEST()	5.6.21, 5.7.9				Yes	Yes
Crosses()		5.7.6	Yes	Yes	Yes	Yes
CURDATE()			Yes	Yes	Yes	Yes
CURRENT_DATE(), CURRENT_DATE			Yes	Yes	Yes	Yes
CURRENT_TIME(), CURRENT_TIME			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
CURRENT_TIMESTAMP(), CURRENT_TIMESTAMP			Yes	Yes	Yes	Yes
CURRENT_USER(), CURRENT_USER			Yes	Yes	Yes	Yes
CURTIME()			Yes	Yes	Yes	Yes
DATABASE()			Yes	Yes	Yes	Yes
DATE()			Yes	Yes	Yes	Yes
DATE_ADD()			Yes	Yes	Yes	Yes
DATE_FORMAT()			Yes	Yes	Yes	Yes
DATE_SUB()			Yes	Yes	Yes	Yes
DATEDIFF()			Yes	Yes	Yes	Yes
DAY()			Yes	Yes	Yes	Yes
DAYNAME()			Yes	Yes	Yes	Yes
DAYOFMONTH()			Yes	Yes	Yes	Yes
DAYOFWEEK()			Yes	Yes	Yes	Yes
DAYOFYEAR()			Yes	Yes	Yes	Yes
DECODE()			Yes	Yes	Yes	Yes
DEFAULT()			Yes	Yes	Yes	Yes
DEGREES()			Yes	Yes	Yes	Yes
DES_DECRYPT()		5.7.6	Yes	Yes	Yes	Yes
DES_ENCRYPT()		5.7.6	Yes	Yes	Yes	Yes
Dimension()		5.7.6	Yes	Yes	Yes	Yes
Disjoint()		5.7.6	Yes	Yes	Yes	Yes
Distance()	5.7.5	5.7.6				Yes
DIV			Yes	Yes	Yes	Yes
/			Yes	Yes	Yes	Yes
ELT()			Yes	Yes	Yes	Yes
ENCODE()			Yes	Yes	Yes	Yes
ENCRYPT()		5.7.6	Yes	Yes	Yes	Yes
EndPoint()		5.7.6	Yes	Yes	Yes	Yes
Envelope()		5.7.6	Yes	Yes	Yes	Yes
=			Yes	Yes	Yes	Yes
<=>			Yes	Yes	Yes	Yes
Equals()		5.7.6	Yes	Yes	Yes	Yes
EXP()			Yes	Yes	Yes	Yes
EXPORT_SET()			Yes	Yes	Yes	Yes
ExteriorRing()		5.7.6	Yes	Yes	Yes	Yes
EXTRACT()			Yes	Yes	Yes	Yes
ExtractValue()	5.1.5		Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
FIELD()			Yes	Yes	Yes	Yes
FIND_IN_SET()			Yes	Yes	Yes	Yes
FLOOR()			Yes	Yes	Yes	Yes
FORMAT()			Yes	Yes	Yes	Yes
FOUND_ROWS()			Yes	Yes	Yes	Yes
FROM_BASE64()	5.6.1				Yes	Yes
FROM_DAYS()			Yes	Yes	Yes	Yes
FROM_UNIXTIME()			Yes	Yes	Yes	Yes
GeomCollFromText(), GeometryCollectionFromText()		5.7.6	Yes	Yes	Yes	Yes
GeomCollFromWKB(), GeometryCollectionFromWKB()		5.7.6	Yes	Yes	Yes	Yes
GeometryCollection()			Yes	Yes	Yes	Yes
GeometryN()		5.7.6	Yes	Yes	Yes	Yes
GeometryType()		5.7.6	Yes	Yes	Yes	Yes
GeomFromText(), GeometryFromText()		5.7.6	Yes	Yes	Yes	Yes
GeomFromWKB(), GeometryFromWKB()		5.7.6	Yes	Yes	Yes	Yes
GET_FORMAT()			Yes	Yes	Yes	Yes
GET_LOCK()			Yes	Yes	Yes	Yes
GLength()		5.7.6	Yes	Yes	Yes	Yes
>			Yes	Yes	Yes	Yes
>=			Yes	Yes	Yes	Yes
GREATEST()			Yes	Yes	Yes	Yes
GROUP_CONCAT()			Yes	Yes	Yes	Yes
GTID_SUBSET()	5.6.5				Yes	Yes
GTID_SUBTRACT()	5.6.5				Yes	Yes
HEX()			Yes	Yes	Yes	Yes
HOUR()			Yes	Yes	Yes	Yes
IF()			Yes	Yes	Yes	Yes
IFNULL()			Yes	Yes	Yes	Yes
IN()			Yes	Yes	Yes	Yes
INET_ATON()			Yes	Yes	Yes	Yes
INET_NTOA()			Yes	Yes	Yes	Yes
INET6_ATON()	5.6.3				Yes	Yes
INET6_NTOA()	5.6.3				Yes	Yes
INSERT()			Yes	Yes	Yes	Yes
INSTR()			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
InteriorRingN()		5.7.6	Yes	Yes	Yes	Yes
Intersects()		5.7.6	Yes	Yes	Yes	Yes
INTERVAL()			Yes	Yes	Yes	Yes
IS			Yes	Yes	Yes	Yes
IS_FREE_LOCK()			Yes	Yes	Yes	Yes
IS_IPV4()	5.6.3				Yes	Yes
IS_IPV4_COMPAT()	5.6.3				Yes	Yes
IS_IPV4_MAPPED()	5.6.3				Yes	Yes
IS_IPV6()	5.6.3				Yes	Yes
IS NOT			Yes	Yes	Yes	Yes
IS NOT NULL			Yes	Yes	Yes	Yes
IS NULL			Yes	Yes	Yes	Yes
IS_USED_LOCK()			Yes	Yes	Yes	Yes
IsClosed()		5.7.6	Yes	Yes	Yes	Yes
IsEmpty()		5.7.6	Yes	Yes	Yes	Yes
ISNULL()			Yes	Yes	Yes	Yes
IsSimple()		5.7.6	Yes	Yes	Yes	Yes
JSON_APPEND()	5.7.8					Yes
JSON_ARRAY()	5.7.8					Yes
JSON_ARRAY_APPEND()	5.7.9					Yes
JSON_ARRAY_INSERT()	5.7.8					Yes
->	5.7.9					Yes
JSON_CONTAINS()	5.7.8					Yes
JSON_CONTAINS_PATH()	5.7.8					Yes
JSON_DEPTH()	5.7.8					Yes
JSON_EXTRACT()	5.7.8					Yes
->>	5.7.13					Yes
JSON_INSERT()	5.7.8					Yes
JSON_KEYS()	5.7.8					Yes
JSON_LENGTH()	5.7.8					Yes
JSON_MERGE()	5.7.8					Yes
JSON_OBJECT()	5.7.8					Yes
JSON_QUOTE()	5.7.8					Yes
JSON_REMOVE()	5.7.8					Yes
JSON_REPLACE()	5.7.8					Yes
JSON_SEARCH()	5.7.8					Yes
JSON_SET()	5.7.8					Yes
JSON_TYPE()	5.7.8					Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
JSON_UNQUOTE()	5.7.8					Yes
JSON_VALID()	5.7.8					Yes
LAST_DAY			Yes	Yes	Yes	Yes
LAST_INSERT_ID()			Yes	Yes	Yes	Yes
LCASE()			Yes	Yes	Yes	Yes
LEAST()			Yes	Yes	Yes	Yes
LEFT()			Yes	Yes	Yes	Yes
<<			Yes	Yes	Yes	Yes
LENGTH()			Yes	Yes	Yes	Yes
<			Yes	Yes	Yes	Yes
<=			Yes	Yes	Yes	Yes
LIKE			Yes	Yes	Yes	Yes
LineFromText(), LineStringFromText()		5.7.6	Yes	Yes	Yes	Yes
LineFromWKB(), LineStringFromWKB()		5.7.6	Yes	Yes	Yes	Yes
LineString()			Yes	Yes	Yes	Yes
LN()			Yes	Yes	Yes	Yes
LOAD_FILE()			Yes	Yes	Yes	Yes
LOCALTIME(), LOCALTIME			Yes	Yes	Yes	Yes
LOCALTIMESTAMP, LOCALTIMESTAMP()			Yes	Yes	Yes	Yes
LOCATE()			Yes	Yes	Yes	Yes
LOG()			Yes	Yes	Yes	Yes
LOG10()			Yes	Yes	Yes	Yes
LOG2()			Yes	Yes	Yes	Yes
LOWER()			Yes	Yes	Yes	Yes
LPAD()			Yes	Yes	Yes	Yes
LTRIM()			Yes	Yes	Yes	Yes
MAKE_SET()			Yes	Yes	Yes	Yes
MAKEDATE()			Yes	Yes	Yes	Yes
MAKETIME()			Yes	Yes	Yes	Yes
MASTER_POS_WAIT()			Yes	Yes	Yes	Yes
MATCH			Yes	Yes	Yes	Yes
MAX()			Yes	Yes	Yes	Yes
MBRContains()			Yes	Yes	Yes	Yes
MBRCoveredBy()	5.7.6					Yes
MBRCovers()	5.7.6					Yes
MBRDisjoint()			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
MBREqual()		5.7.6	Yes	Yes	Yes	Yes
MBREquals()	5.7.6					Yes
MBRIntersects()			Yes	Yes	Yes	Yes
MBROverlaps()			Yes	Yes	Yes	Yes
MBRTouches()			Yes	Yes	Yes	Yes
MBRWithin()			Yes	Yes	Yes	Yes
MD5()			Yes	Yes	Yes	Yes
MICROSECOND()			Yes	Yes	Yes	Yes
MID()			Yes	Yes	Yes	Yes
MIN()			Yes	Yes	Yes	Yes
-			Yes	Yes	Yes	Yes
MINUTE()			Yes	Yes	Yes	Yes
MLineFromText(), MultiLineStringFromText()		5.7.6	Yes	Yes	Yes	Yes
MLineFromWKB(), MultiLineStringFromWKB()		5.7.6	Yes	Yes	Yes	Yes
MOD()			Yes	Yes	Yes	Yes
%, MOD			Yes	Yes	Yes	Yes
MONTH()			Yes	Yes	Yes	Yes
MONTHNAME()			Yes	Yes	Yes	Yes
MPointFromText(), MultiPointFromText()		5.7.6	Yes	Yes	Yes	Yes
MPointFromWKB(), MultiPointFromWKB()		5.7.6	Yes	Yes	Yes	Yes
MPolyFromText(), MultiPolygonFromText()		5.7.6	Yes	Yes	Yes	Yes
MPolyFromWKB(), MultiPolygonFromWKB()		5.7.6	Yes	Yes	Yes	Yes
MultiLineString()			Yes	Yes	Yes	Yes
MultiPoint()			Yes	Yes	Yes	Yes
MultiPolygon()			Yes	Yes	Yes	Yes
NAME_CONST()			Yes	Yes	Yes	Yes
NOT, !			Yes	Yes	Yes	Yes
NOT BETWEEN ... AND ...			Yes	Yes	Yes	Yes
!=, <>			Yes	Yes	Yes	Yes
NOT IN()			Yes	Yes	Yes	Yes
NOT LIKE			Yes	Yes	Yes	Yes
NOT REGEXP			Yes	Yes	Yes	Yes
NOW()			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
NULLIF()			Yes	Yes	Yes	Yes
NumGeometries()		5.7.6	Yes	Yes	Yes	Yes
NumInteriorRings()		5.7.6	Yes	Yes	Yes	Yes
NumPoints()		5.7.6	Yes	Yes	Yes	Yes
OCT()			Yes	Yes	Yes	Yes
OCTET_LENGTH()			Yes	Yes	Yes	Yes
OLD_PASSWORD()		5.6.5	Yes	Yes	Yes	Yes
, OR			Yes	Yes	Yes	Yes
ORD()			Yes	Yes	Yes	Yes
Overlaps()		5.7.6	Yes	Yes	Yes	Yes
PASSWORD()		5.7.6	Yes	Yes	Yes	Yes
PERIOD_ADD()			Yes	Yes	Yes	Yes
PERIOD_DIFF()			Yes	Yes	Yes	Yes
PI()			Yes	Yes	Yes	Yes
+			Yes	Yes	Yes	Yes
Point()			Yes	Yes	Yes	Yes
PointFromText()		5.7.6	Yes	Yes	Yes	Yes
PointFromWKB()		5.7.6	Yes	Yes	Yes	Yes
PointN()		5.7.6	Yes	Yes	Yes	Yes
PolyFromText(), PolygonFromText()		5.7.6	Yes	Yes	Yes	Yes
PolyFromWKB(), PolygonFromWKB()		5.7.6	Yes	Yes	Yes	Yes
Polygon()			Yes	Yes	Yes	Yes
POSITION()			Yes	Yes	Yes	Yes
POW()			Yes	Yes	Yes	Yes
POWER()			Yes	Yes	Yes	Yes
PROCEDURE ANALYSE()			Yes	Yes	Yes	Yes
QUARTER()			Yes	Yes	Yes	Yes
QUOTE()			Yes	Yes	Yes	Yes
RADIANS()			Yes	Yes	Yes	Yes
RAND()			Yes	Yes	Yes	Yes
RANDOM_BYTES()	5.6.17, 5.7.4				Yes	Yes
REGEXP			Yes	Yes	Yes	Yes
RELEASE_ALL_LOCKS()	5.7.5					Yes
RELEASE_LOCK()			Yes	Yes	Yes	Yes
REPEAT()			Yes	Yes	Yes	Yes
REPLACE()			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
REVERSE()			Yes	Yes	Yes	Yes
RIGHT()			Yes	Yes	Yes	Yes
>>			Yes	Yes	Yes	Yes
RLIKE			Yes	Yes	Yes	Yes
ROUND()			Yes	Yes	Yes	Yes
ROW_COUNT()			Yes	Yes	Yes	Yes
RPAD()			Yes	Yes	Yes	Yes
RTRIM()			Yes	Yes	Yes	Yes
SCHEMA()			Yes	Yes	Yes	Yes
SEC_TO_TIME()			Yes	Yes	Yes	Yes
SECOND()			Yes	Yes	Yes	Yes
SESSION_USER()			Yes	Yes	Yes	Yes
SHA1(), SHA()			Yes	Yes	Yes	Yes
SHA2()	5.5.5			Yes	Yes	Yes
SIGN()			Yes	Yes	Yes	Yes
SIN()			Yes	Yes	Yes	Yes
SLEEP()			Yes	Yes	Yes	Yes
SOUNDEX()			Yes	Yes	Yes	Yes
SOUNDS LIKE			Yes	Yes	Yes	Yes
SPACE()			Yes	Yes	Yes	Yes
SQL_THREAD_WAIT_AFTER_GTIDS()	5.6.5	5.6.9			Yes	
SQRT()			Yes	Yes	Yes	Yes
SRID()		5.7.6	Yes	Yes	Yes	Yes
ST_Area()	5.6.1				Yes	Yes
ST_AsBinary(), ST_AsWKB()	5.6.1				Yes	Yes
ST_AsGeoJSON()	5.7.5					Yes
ST_AsText(), ST_AsWKT()	5.6.1				Yes	Yes
ST_Buffer()	5.6.1				Yes	Yes
ST_Buffer_Strategy()	5.7.7					Yes
ST_Centroid()	5.6.1				Yes	Yes
ST_Contains()	5.6.1				Yes	Yes
ST_ConvexHull()	5.7.5					Yes
ST_Crosses()	5.6.1				Yes	Yes
ST_Difference()	5.6.1				Yes	Yes
ST_Dimension()	5.6.1				Yes	Yes
ST_Disjoint()	5.6.1				Yes	Yes
ST_Distance()	5.6.1				Yes	Yes
ST_Distance_Sphere()	5.7.6					Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
ST_EndPoint()	5.6.1				Yes	Yes
ST_Envelope()	5.6.1				Yes	Yes
ST_Equals()	5.6.1				Yes	Yes
ST_ExteriorRing()	5.6.1				Yes	Yes
ST_GeoHash()	5.7.5					Yes
ST_GeomCollFromText(), ST_GeometryCollectionFromText(), ST_GeomCollFromTxt()	5.6.1				Yes	Yes
ST_GeomCollFromWKB(), ST_GeometryCollectionFromWKB()	5.6.1				Yes	Yes
ST_GeometryN()	5.6.1				Yes	Yes
ST_GeometryType()	5.6.1				Yes	Yes
ST_GeomFromGeoJSON()	5.7.5					Yes
ST_GeomFromText(), ST_GeometryFromText()	5.6.1				Yes	Yes
ST_GeomFromWKB(), ST_GeometryFromWKB()	5.6.1				Yes	Yes
ST_InteriorRingN()	5.6.1				Yes	Yes
ST_Intersection()	5.6.1				Yes	Yes
ST_Intersects()	5.6.1				Yes	Yes
ST_IsClosed()	5.6.1				Yes	Yes
ST_IsEmpty()	5.6.1				Yes	Yes
ST_IsSimple()	5.6.1				Yes	Yes
ST_IsValid()	5.7.6					Yes
ST_LatFromGeoHash()	5.7.5					Yes
ST_Length()	5.7.6					Yes
ST_LineFromText(), ST_LineStringFromText()	5.6.1				Yes	Yes
ST_LineFromWKB(), ST_LineStringFromWKB()	5.6.1				Yes	Yes
ST_LongFromGeoHash()	5.7.5					Yes
ST_MakeEnvelope()	5.7.6					Yes
ST_MLineFromText(), ST_MultiLineStringFromText()	5.7.6					Yes
ST_MLineFromWKB(), ST_MultiLineStringFromWKB()	5.7.6					Yes
ST_MPointFromText(), ST_MultiPointFromText()	5.7.6					Yes
ST_MPointFromWKB(), ST_MultiPointFromWKB()	5.7.6					Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
ST_MPolyFromText(), ST_MultiPolygonFromText()	5.7.6					Yes
ST_MPolyFromWKB(), ST_MultiPolygonFromWKB()	5.7.6					Yes
ST_NumGeometries()	5.6.1				Yes	Yes
ST_NumInteriorRing(), ST_NumInteriorRings()	5.6.1				Yes	Yes
ST_NumPoints()	5.6.1				Yes	Yes
ST_Overlaps()	5.6.1				Yes	Yes
ST_PointFromGeoHash()	5.7.5					Yes
ST_PointFromText()	5.6.1				Yes	Yes
ST_PointFromWKB()	5.6.1				Yes	Yes
ST_PointN()	5.6.1				Yes	Yes
ST_PolyFromText(), ST_PolygonFromText()	5.6.1				Yes	Yes
ST_PolyFromWKB(), ST_PolygonFromWKB()	5.6.1				Yes	Yes
ST_Simplify()	5.7.6					Yes
ST_SRID()	5.6.1				Yes	Yes
ST_StartPoint()	5.6.1				Yes	Yes
ST_SymDifference()	5.6.1				Yes	Yes
ST_Touches()	5.6.1				Yes	Yes
ST_Union()	5.6.1				Yes	Yes
ST_Validate()	5.7.6					Yes
ST_Within()	5.6.1				Yes	Yes
ST_X()	5.6.1				Yes	Yes
ST_Y()	5.6.1				Yes	Yes
StartPoint()		5.7.6	Yes	Yes	Yes	Yes
STD()			Yes	Yes	Yes	Yes
STDDEV()			Yes	Yes	Yes	Yes
STDDEV_POP()			Yes	Yes	Yes	Yes
STDDEV_SAMP()			Yes	Yes	Yes	Yes
STR_TO_DATE()			Yes	Yes	Yes	Yes
STRCMP()			Yes	Yes	Yes	Yes
SUBDATE()			Yes	Yes	Yes	Yes
SUBSTR()			Yes	Yes	Yes	Yes
SUBSTRING()			Yes	Yes	Yes	Yes
SUBSTRING_INDEX()			Yes	Yes	Yes	Yes
SUBTIME()			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
SUM()			Yes	Yes	Yes	Yes
SYSDATE()			Yes	Yes	Yes	Yes
SYSTEM_USER()			Yes	Yes	Yes	Yes
TAN()			Yes	Yes	Yes	Yes
TIME()			Yes	Yes	Yes	Yes
TIME_FORMAT()			Yes	Yes	Yes	Yes
TIME_TO_SEC()			Yes	Yes	Yes	Yes
TIMEDIFF()			Yes	Yes	Yes	Yes
*			Yes	Yes	Yes	Yes
TIMESTAMP()			Yes	Yes	Yes	Yes
TIMESTAMPADD()			Yes	Yes	Yes	Yes
TIMESTAMPDIFF()			Yes	Yes	Yes	Yes
TO_BASE64()	5.6.1				Yes	Yes
TO_DAYS()			Yes	Yes	Yes	Yes
TO_SECONDS()				Yes	Yes	Yes
Touches()		5.7.6	Yes	Yes	Yes	Yes
TRIM()			Yes	Yes	Yes	Yes
TRUNCATE()			Yes	Yes	Yes	Yes
UCASE()			Yes	Yes	Yes	Yes
-			Yes	Yes	Yes	Yes
UNCOMPRESS()			Yes	Yes	Yes	Yes
UNCOMPRESSED_LENGTH()			Yes	Yes	Yes	Yes
UNHEX()			Yes	Yes	Yes	Yes
UNIX_TIMESTAMP()			Yes	Yes	Yes	Yes
UpdateXML()	5.1.5		Yes	Yes	Yes	Yes
UPPER()			Yes	Yes	Yes	Yes
USER()			Yes	Yes	Yes	Yes
UTC_DATE()			Yes	Yes	Yes	Yes
UTC_TIME()			Yes	Yes	Yes	Yes
UTC_TIMESTAMP()			Yes	Yes	Yes	Yes
UUID()			Yes	Yes	Yes	Yes
UUID_SHORT()	5.1.20		Yes	Yes	Yes	Yes
VALIDATE_PASSWORD_STRENGTH()	5.6.6				Yes	Yes
VALUES()			Yes	Yes	Yes	Yes
VAR_POP()			Yes	Yes	Yes	Yes
VAR_SAMP()			Yes	Yes	Yes	Yes
VARIANCE()			Yes	Yes	Yes	Yes
VERSION()			Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.1	5.5	5.6	5.7
WAIT_FOR_EXECUTED_GTID_SET()	5.7.5					Yes
WAIT_UNTIL_SQL_THREAD_AFTER_GTIDS()	5.6.9				Yes	Yes
WEEK()			Yes	Yes	Yes	Yes
WEEKDAY()			Yes	Yes	Yes	Yes
WEEKOFYEAR()			Yes	Yes	Yes	Yes
WEIGHT_STRING()					Yes	Yes
Within()		5.7.6	Yes	Yes	Yes	Yes
X()		5.7.6	Yes	Yes	Yes	Yes
XOR			Yes	Yes	Yes	Yes
Y()		5.7.6	Yes	Yes	Yes	Yes
YEAR()			Yes	Yes	Yes	Yes
YEARWEEK()			Yes	Yes	Yes	Yes

Chapter 4 Build (Configuration) Options

The following tables details all of the configuration options available when building MySQL server from source. The first table shows the [CMake](#) options, which are used in MySQL 5.5.5 and up. The second table shows the [configure](#) (GNU autotools) options, which are used prior to MySQL 5.5.5. The tables includes the following columns:

- **Formats:** The command line format for the configure option.
- **Description:** A short description of the option.
- **Default:** The default value.
- **Introduced:** The versions in which the option was introduced.
- **Removed:** The versions in which the option was removed.
- **5.1, 5.5,** and so forth: Whether the option is available in MySQL 5.1, MySQL 5.5, and so forth. If available, a link to the reference manual where more information can be located will be included.

Table 4.1 Build (CMake) options

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
BUILD_CONFIG	Use same build options as official releases					
		5.5.7		Yes	Yes	Yes
CMAKE_BUILD_TYPE	Type of build to produce					
	RelWithDebInfo	5.5.7		Yes	Yes	Yes
CMAKE_CXX_FLAGS	Flags for C++ Compiler					
				Yes	Yes	Yes
CMAKE_C_FLAGS	Flags for C Compiler					
				Yes	Yes	Yes
CMAKE_INSTALL_PREFIX	Installation base directory					
	/usr/local/mysql	5.5.8		Yes	Yes	Yes
COMPILEATION_COMMENT	Comment about compilation environment					
		5.5.7		Yes	Yes	Yes
CPACK_MONOLITHIC_INSTALL	Whether package build produces single file					
	OFF	5.5.7		Yes	Yes	Yes
DEFAULT_CHARSET	The default server character set					
	latin1	5.5.7		Yes	Yes	Yes
DEFAULT_COLLATION	The default server collation					
	latin1_swedish_ci	5.5.7		Yes	Yes	Yes
DISABLE_PSI_COND	Exclude Performance Schema condition instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_FILE	Exclude Performance Schema file instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_IDLE	Exclude Performance Schema idle instrumentation					

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
	OFF	5.7.3				Yes
DISABLE_PSI_MEMORY	Exclude Performance Schema memory instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_METADATA	Exclude Performance Schema metadata instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_MUTEX	Exclude Performance Schema mutex instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_RWLOCK	Exclude Performance Schema rwlock instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_SOCKET	Exclude Performance Schema socket instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_SP	Exclude Performance Schema stored program instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_STAGE	Exclude Performance Schema stage instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_STATEMENT	Exclude Performance Schema statement instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_STATEMENT_DIGEST	Exclude Performance Schema statement_digest instrumentation					
	OFF	5.7.3				Yes
DISABLE_PSI_TABLE	Exclude Performance Schema table instrumentation					
	OFF	5.7.3				Yes
DOWNLOAD_BOOST	Whether to download the Boost library					
	OFF	5.7.5				Yes
DOWNLOAD_BOOST_TIMEOUT	Timeout in seconds for downloading the Boost library					
	600	5.7.6				Yes
-DWITH_SYMVER16	Whether libmysqlclient.so.18 contains both symver 16 and 18 symbols.					
	OFF	5.6.31			Yes	
ENABLED_LOCAL_INFILE	Whether to enable LOCAL for LOAD DATA INFILE					
	OFF	5.5.7		Yes	Yes	Yes
ENABLED_PROFILING	Whether to enable query profiling code					
	ON	5.5.7		Yes	Yes	Yes
ENABLE_DEBUG_SYNC	Whether to enable Debug Sync support					
	ON	5.5.7		Yes	Yes	Yes
ENABLE_DOWNLOADS	Whether to download optional files					
	OFF	5.5.7		Yes	Yes	Yes
ENABLE_DTRACE	Whether to include DTrace support					

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
		5.5.7		Yes	Yes	Yes
ENABLE_GCOV	Whether to include gcov support					
		5.5.14, 5.6.3		Yes	Yes	Yes
ENABLE_GPROF	Enable gprof (optimized Linux builds only)					
	OFF	5.6.6			Yes	Yes
FORCE_UNSUPPORTED_COMPILER	Whether to permit unsupported compiler					
	OFF	5.7.5				Yes
IGNORE_AIO_CHECK	With -DBUILD_CONFIG=mysql_release, ignore libaio check					
	OFF	5.5.9, 5.6.1		Yes	Yes	Yes
INNODB_PAGE_ATOMIC_REF_COUNT	Enable or disable atomic page reference counting					
	ON	5.6.16, 5.7.4	5.7.5		Yes	Yes
INSTALL_BINDIR	User executables directory					
	PREFIX/bin	5.5.7		Yes	Yes	Yes
INSTALL_DOCDIR	Documentation directory					
	PREFIX/docs	5.5.7		Yes	Yes	Yes
INSTALL_DOCREADMEDIR	README file directory					
	PREFIX	5.5.7		Yes	Yes	Yes
INSTALL_INCLUDEDIR	Header file directory					
	PREFIX/include	5.5.7		Yes	Yes	Yes
INSTALL_INFODIR	Info file directory					
	PREFIX/docs	5.5.7		Yes	Yes	Yes
INSTALL_LAYOUT	Select predefined installation layout					
	STANDALONE	5.5.7		Yes	Yes	Yes
INSTALL_LIBDIR	Library file directory					
	PREFIX/lib	5.5.7		Yes	Yes	Yes
INSTALL_MANDIR	Manual page directory					
	PREFIX/man	5.5.7		Yes	Yes	Yes
INSTALL_MYSQLKEYRINGDIR	Directory for keyring_file plugin data file					
	platform specific	5.7.11				Yes
INSTALL_MYSQLSHAREDIR	Shared data directory					
	PREFIX/share	5.5.7		Yes	Yes	Yes
INSTALL_MYSQLTESTDIR	mysql-test directory					
	PREFIX/mysql-test	5.5.7		Yes	Yes	Yes
INSTALL_PKGCONFIGDIR	Directory for mysqlclient.pc pkg-config file					

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
	INSTALL_LIBDIR/pkgconfig	5.7.9				Yes
INSTALL_PLUGINDIR	Plugin directory					
	PREFIX/lib/plugin	5.5.7		Yes	Yes	Yes
INSTALL_SBINDIR	Server executable directory					
	PREFIX/bin	5.5.7		Yes	Yes	Yes
INSTALL_SCRIPTDIR	Scripts directory					
	PREFIX/scripts	5.5.7		Yes	Yes	Yes
INSTALL_SECURE_FILE_PRIVDIR	secure_file_priv default value					
	platform specific	5.7.6				Yes
INSTALL_SECURE_FILE_PRIV_EMBEDDED	secure_file_priv default value for libmysql					
		5.7.8				Yes
INSTALL_SHAREDIR	aclocal/mysql.m4 installation directory					
	PREFIX/share	5.5.7		Yes	Yes	Yes
INSTALL_SQLBENCHDIR	sql-bench directory					
	PREFIX	5.5.7	5.7.8	Yes	Yes	Yes
INSTALL_SUPPORTFILESDIR	Extra support files directory					
	PREFIX/support-files	5.5.7		Yes	Yes	Yes
MAX_INDEXES	Maximum indexes per table					
	64	5.7.1				Yes
MEMCACHED_HOME	Path to memcached					
	[none]	5.5.16-ndb-7.2.2		Yes	Yes	
MUTEX_TYPE	InnoDB mutex type					
	event	5.7.2				Yes
MYSQL_DATADIR	Data directory					
		5.5.7		Yes	Yes	Yes
MYSQL_MAINTAINER_MODE	Whether to enable MySQL maintainer-specific development environment					
	OFF	5.5.7		Yes	Yes	Yes
MYSQL_PROJECT_NAME	Windows/OS X project name					
	3306	5.5.21, 5.6.5		Yes	Yes	Yes
MYSQL_TCP_PORT	TCP/IP port number					
	3306	5.5.7		Yes	Yes	Yes
MYSQL_UNIX_ADDR	Unix socket file					
	/tmp/mysql.sock	5.5.7		Yes	Yes	Yes
ODBC_INCLUDES	ODBC includes directory					

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
				Yes	Yes	Yes
ODBC_LIB_DIR	ODBC library directory					
				Yes	Yes	Yes
OPTIMIZER_TRACE	Whether to support optimizer tracing					
		5.6.3			Yes	Yes
SUNPRO_CXX_LIBRARY	Client link library on Solaris 10+					
		5.6.20, 5.7.5			Yes	Yes
SYSCONFDIR	Option file directory					
		5.5.7		Yes	Yes	Yes
SYSTEMD_PID_DIR	Directory for PID file under systemd					
	/var/run/mysqld	5.7.6				Yes
SYSTEMD_SERVICE_NAME	Name of MySQL service under systemd					
	mysqld	5.7.6				Yes
TMPDIR	tmpdir default value					
		5.5.36, 5.6.16, 5.7.4		Yes	Yes	Yes
WIN_DEBUG_NO_INLINE	Whether to disable function inlining					
	OFF	5.7.6				Yes
WITHOUT_SERVER	Do not build the server					
	OFF			Yes	Yes	Yes
WITHOUT_xxx_STORAGE_ENGINE	Exclude storage engine xxx from build					
		5.5.7		Yes	Yes	Yes
WITH_ASAN	Enable AddressSanitizer					
	OFF	5.5.35, 5.6.15, 5.7.3		Yes	Yes	Yes
WITH_AUTHENTICATION_PAM	Build PAM authentication plugin					
	OFF					Yes
WITH_BOOST	The location of the Boost library sources					
		5.7.5				Yes
WITH_BUNDLED_LIBEVENT	Use bundled libevent when building ndbmemcache					
	ON	5.5.16- ndb-7.2.2		Yes	Yes	
WITH_BUNDLED_MEMCACHED	Use bundled memcached when building ndbmemcache					
	ON	5.5.16- ndb-7.2.2		Yes	Yes	

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
WITH_CLASSPATH	Classpath to use when building MySQL Cluster Connector for Java. Default is an empty string.					
				Yes	Yes	
WITH_CLIENT_PROTOCOL_TRACING	Build client-side protocol tracing framework					
	ON	5.7.2				Yes
WITH_DEBUG	Whether to include debugging support					
	OFF	5.5.7		Yes	Yes	Yes
WITH_DEFAULT_COMPILER_OPTIONS	Whether to use default compiler options					
	ON	5.6.6			Yes	Yes
WITH_DEFAULT_FEATURE_SET	Whether to use default feature set					
	ON	5.6.6			Yes	Yes
WITH_EDITLINE	Which libedit/editline library to use					
	bundled	5.6.12, 5.7.2			Yes	Yes
WITH_EMBEDDED_SERVER	Whether to build embedded server					
	OFF	5.5.7		Yes	Yes	Yes
WITH_EMBEDDED_SHARED_LIBRARY	Whether to build a shared embedded server library					
	OFF	5.5.37, 5.6.17, 5.7.4		Yes	Yes	Yes
WITH_ERROR_INSERT	Enable error injection in the NDB storage engine. Should not be used for building binaries intended for production.					
	OFF			Yes	Yes	
WITH_EXTRA_CHARSETS	Which extra character sets to include					
	all	5.5.7		Yes	Yes	Yes
WITH_INNODB_EXTRA_DEBUG	Whether to include extra debugging support for InnoDB.					
	OFF	5.7.2				Yes
WITH_INNODB_MEMCACHED	Whether to generate memcached shared libraries.					
	OFF				Yes	Yes
WITH_KEYRING_TEST	Build the keyring test program					
	OFF	5.7.11				Yes
WITH_LIBEDIT	Use bundled libedit library					
	ON	5.5.7	5.6.12	Yes	Yes	
WITH_LIBEVENT	Which libevent library to use					
	bundled	5.6.6			Yes	Yes
WITH_LIBWRAP	Whether to include libwrap (TCP wrappers) support					
	OFF	5.5.7		Yes	Yes	Yes
WITH_MECAB	Compiles MeCab					

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
		5.7.6				Yes
WITH_MSAN	Enable MemorySanitizer					
	OFF	5.7.4				Yes
WITH_MSCRT_DEBUG	Enable Visual Studio CRT memory leak tracing					
	OFF	5.7.6				Yes
WITH_NDBCLUSTER	Build the NDB storage engine; alias for WITH_NDBCLUSTER_STORAGE_ENGINE					
	ON			Yes	Yes	Yes
WITH_NDBCLUSTER_STORAGE_ENGINE	Build the NDB storage engine					
	ON			Yes	Yes	Yes
WITH_NDBMTD	Build multi-threaded data node.					
	ON			Yes	Yes	
WITH_NDB_BINLOG	Enable binary logging by default by mysqld.					
	ON			Yes	Yes	
WITH_NDB_DEBUG	Produce a debug build for testing or troubleshooting.					
	OFF			Yes	Yes	
WITH_NDB_JAVA	Enable building of Java and ClusterJ support. Enabled by default. Supported in MySQL Cluster only.					
	ON	5.5.27-ndb-7.2.9		Yes	Yes	
WITH_NDB_PORT	Default port used by a management server built with this option. If this option was not used to build it, the management server's default port is 1186.					
	[none]			Yes	Yes	
WITH_NDB_TEST	Include NDB API test programs.					
	OFF			Yes	Yes	
WITH_RAPID	Whether to build rapid development cycle plugins					
	ON	5.7.12				Yes
WITH_READLINE	Use bundled readline library					
	OFF	5.5.7	5.6.5	Yes	Yes	
WITH_SSL	Type of SSL support					
	bundled	5.5.7		Yes	Yes	Yes
WITH_SYSTEMD	Enable installation of systemd support files					
	OFF	5.7.6				Yes
WITH_TEST_TRACE_PLUGIN	Build test protocol trace plugin					
	OFF	5.7.2				Yes
WITH_UBSAN	Enable Undefined Behavior Sanitizer					
	OFF	5.7.6				Yes

Name	Description					
	Default	Introduced	Removed	5.5	5.6	5.7
WITH_UNIXODBC	Enable unixODBC support					
	OFF			Yes	Yes	Yes
WITH_VALGRIND	Whether to compile in Valgrind header files					
	OFF	5.5.6		Yes	Yes	Yes
WITH_ZLIB	Type of zlib support					
	bundled	5.5.7		Yes	Yes	Yes
WITH_xxx_STORAGE_ENGINE	Compile storage engine xxx statically into server					
		5.5.7		Yes	Yes	Yes

Table 4.2 Build (configure) options

Name	Description			
	Default	Introduced	Removed	5.1
--bindir	User executables			
	EPREFIX/bin			Yes
--build	Configure for building on BUILD			
	guessed			Yes
--cache-file	Cache test results in FILE			
	disabled			Yes
--config-cache	Alias for `--cache-file=config.cache'			
				Yes
--datadir	Read-only architecture-independent data			
	PREFIX/share			Yes
--disable-FEATURE	Do not include FEATURE			
				Yes
--disable-community-features	Disable additional features provided by the community			
		5.1.28		Yes
--disable-dependency-tracking	Disable dependency tracking			
				Yes
--disable-grant-options	Disable GRANT options			
				Yes
--disable-largefile	Omit support for large files			
				Yes
--disable-libtool-lock	Disable libtool lock			
				Yes
--disable-thread-safe-client	Compile the client without threads			
		5.1.7		Yes
--enable-FEATURE	Enable FEATURE			
				Yes

Name	Description			
	Default	Introduced	Removed	5.1
<code>--enable-asmbl</code>	Use assembler versions of some string functions if available			
				Yes
<code>--enable-debug-sync</code>	Compile in Debug Sync facility			
		5.1.41		Yes
<code>--enable-dependency-tracking</code>	Do not reject slow dependency extractors			
				Yes
<code>--enable-fast-install</code>	Optimize for fast installation			
	yes			Yes
<code>--enable-local-infile</code>	Enable LOCAL for LOAD DATA INFILE			
	disabled			Yes
<code>--enable-profiling</code>	Build a version with query profiling code			
		5.1.24		Yes
<code>--enable-shared</code>	Build shared libraries			
	yes			Yes
<code>--enable-static</code>	Build static libraries			
	yes			Yes
<code>--enable-thread-safe-client</code>	Compile the client with threads			
			5.1.6	Yes
<code>--exec-prefix</code>	Install architecture-dependent files in EPREFIX			
				Yes
<code>--help</code>	Display help message and exit			
				Yes
<code>--host</code>	Cross-compile to build programs to run on HOST			
				Yes
<code>--includedir</code>	C header files			
	PREFIX/include			Yes
<code>--infodir</code>	Info documentation			
	PREFIX/info			Yes
<code>--libdir</code>	Object code libraries			
	EPREFIX/lib			Yes
<code>--libexecdir</code>	Program executables			
	EPREFIX/libexec			Yes
<code>--localstatedir</code>	Modifiable single-machine data			
	PREFIX/var			Yes
<code>--mandir</code>	man documentation			
	PREFIX/man			Yes
<code>--no-create</code>	Do not create output files			

Name	Description			
	Default	Introduced	Removed	5.1
				Yes
<code>--oldincludedir</code>	C header files for non-gcc			
	<code>/usr/include</code>			Yes
<code>--prefix</code>	Install architecture-independent files in PREFIX			
				Yes
<code>--program-prefix</code>	Prepend PREFIX to installed program names			
				Yes
<code>--program-suffix</code>	Append SUFFIX to installed program names			
				Yes
<code>--program-transform-name</code>	run sed PROGRAM on installed program names			
				Yes
<code>--quiet</code>	Do not print `checking...' messages			
				Yes
<code>--sbindir</code>	System administrative executables			
	<code>EPREFIX/sbin</code>			Yes
<code>--sharedstatedir</code>	Modifiable architecture-independent data			
	<code>PREFIX/com</code>			Yes
<code>--srcdir</code>	Find the sources in DIR			
	<code>configure directory or ..</code>			Yes
<code>--sysconfdir</code>	Read-only single-machine data			
	<code>PREFIX/etc</code>			Yes
<code>--target</code>	Configure for building compilers for TARGET			
				Yes
<code>--version</code>	Display version information and exit			
				Yes
<code>--with-PACKAGE</code>	Use PACKAGE			
				Yes
<code>--with-archive-storage-engine</code>	Enable the Archive Storage Engine			
	<code>no</code>		5.1.9	Yes
<code>--with-atomic-ops</code>	Implement atomic operations using pthread rwlocks or atomic CPU instructions for multi-processor			
		5.1.12		Yes
<code>--with-berkeley-db</code>	Use BerkeleyDB located in DIR			
	<code>no</code>		5.1.11	Yes
<code>--with-berkeley-db-includes</code>	Find Berkeley DB headers in DIR			
			5.1.11	Yes
<code>--with-berkeley-db-libs</code>	Find Berkeley DB libraries in DIR			

Name	Description			
	Default	Introduced	Removed	5.1
			5.1.11	Yes
<code>--with-big-tables</code>	Support tables with more than 4 G rows even on 32 bit platforms			
				Yes
<code>--with-blackhole-storage-engine</code>	Enable the Blackhole Storage Engine			
	no		5.1.9	Yes
<code>--with-charset</code>	Default character set			
				Yes
<code>--with-client-ldflags</code>	Extra linking arguments for clients			
				Yes
<code>--with-collation</code>	Default collation			
				Yes
<code>--with-comment</code>	Comment about compilation environment			
				Yes
<code>--with-csv-storage-engine</code>	Enable the CSV Storage Engine			
	yes		5.1.9	Yes
<code>--with-darwin-mwcc</code>	Use Metrowerks CodeWarrior wrappers on OS X/Darwin			
				Yes
<code>--with-debug</code>	Add debug code (optionally with memory checker, very slow)			
		5.1.7		Yes
<code>--with-embedded-privilege-control</code>	Build parts to check user's privileges (only affects embedded library)			
				Yes
<code>--with-embedded-server</code>	Build the embedded server			
				Yes
<code>--with-error-inject</code>	Enable error injection in MySQL Server			
		5.1.11		Yes
<code>--with-example-storage-engine</code>	Enable the Example Storage Engine			
	no		5.1.9	Yes
<code>--with-extra-charsets</code>	Use charsets in addition to default			
				Yes
<code>--with-fast-mutexes</code>	Compile with fast mutexes			
	disabled	5.1.5		Yes
<code>--with-federated-storage-engine</code>	Enable federated storage engine			
	no	5.1.3	5.1.9	Yes
<code>--with-gnu-ld</code>	Assume the C compiler uses GNU ld			
	no			Yes
<code>--with-innodb</code>	Enable innobase storage engine			

Name	Description			
	Default	Introduced	Removed	5.1
	no	5.1.3	5.1.9	Yes
--with-lib-ccflags	Extra CC options for libraries			
				Yes
--with-libwrap	Compile in libwrap (tcp_wrappers) support			
				Yes
--with-low-memory	Try to use less memory to compile to avoid memory limitations			
				Yes
--with-machine-type	Set the machine type, like "powerpc"			
				Yes
--with-maria-temp-tables	Make the temporary tables within MySQL use the Maria storage engine			
		5.1.24		Yes
--with-max-indexes	Sets the maximum number of indexes per table			
	64			Yes
--with-mysqld-ldflags	Extra linking arguments for mysqld			
				Yes
--with-mysqld-libs	Extra libraries to link with for mysqld			
				Yes
--with-mysqld-user	What user the mysqld daemon shall be run as			
				Yes
--with-mysqlmanager	Build the mysqlmanager binary			
	Build if server is built			Yes
--with-named-curses-libs	Use specified curses libraries			
				Yes
--with-named-thread-libs	Use specified thread libraries			
				Yes
--with-ndb-ccflags	Extra CC options for ndb compile			
				Yes
--with-ndb-docs	Include the NDB Cluster ndbapi and mgmapi documentation			
				Yes
--with-ndb-port	Port for NDB Cluster management server			
				Yes
--with-ndb-port-base	Port for NDB Cluster management server			
				Yes
--with-ndb-sci	Provide MySQL with a custom location of sci library			
				Yes
--with-ndb-test	Include the NDB Cluster ndbapi test programs			

Name	Description			
	Default	Introduced	Removed	5.1
				Yes
<code>--with-ndbcluster</code>	Include the NDB Cluster table handler			
	<code>no</code>		5.1.9	Yes
<code>--with-openssl</code>	Include the OpenSSL support			
			5.1.9	Yes
<code>--with-openssl-includes</code>	Find OpenSSL headers in DIR			
			5.1.9	Yes
<code>--with-openssl-libs</code>	Find OpenSSL libraries in DIR			
			5.1.9	Yes
<code>--with-other-libc</code>	Link against libc and other standard libraries installed in the specified nonstandard location			
				Yes
<code>--with-pic</code>	Try to use only PIC/non-PIC objects			
	<code>Use both</code>			Yes
<code>--with-plugin-PLUGIN</code>	Forces the named plugin to be linked into mysqld statically			
		5.1.11		Yes
<code>--with-plugins</code>	Plugins to include in mysqld			
	<code>none</code>	5.1.11		Yes
<code>--with-pstack</code>	Use the pstack backtrace library			
			5.1.54	Yes
<code>--with-pthread</code>	Force use of pthread library			
				Yes
<code>--with-row-based-replication</code>	Include row-based replication			
		5.1.5	5.1.6	Yes
<code>--with-server-suffix</code>	Append value to the version string			
				Yes
<code>--with-ssl</code>	Include SSL support			
		5.1.11		Yes
<code>--with-system-type</code>	Set the system type, like "sun-solaris10"			
				Yes
<code>--with-tags</code>	Include additional configurations			
	<code>automatic</code>			Yes
<code>--with-tcp-port</code>	Which port to use for MySQL services			
	<code>3306</code>			Yes
<code>--with-unix-socket-path</code>	Where to put the unix-domain socket			
				Yes
<code>--with-yassl</code>	Include the yaSSL support			

Name	Description			
	Default	Introduced	Removed	5.1
			5.1.9	Yes
<code>--with-zlib-dir</code>	Provide MySQL with a custom location of compression library			
				Yes
<code>--without-PACKAGE</code>	Do not use PACKAGE			
				Yes
<code>--without-bench</code>	Skip building of the benchmark suite			
			5.1.11	Yes
<code>--without-debug</code>	Build a production version without debugging code			
			5.1.6	Yes
<code>--without-docs</code>	Skip building of the documentation			
				Yes
<code>--without-extra-tools</code>	Skip building utilities in the tools directory			
			5.1.9	Yes
<code>--without-geometry</code>	Do not build geometry-related parts			
				Yes
<code>--without-libedit</code>	Use system libedit instead of bundled copy			
				Yes
<code>--without-man</code>	Skip building of the man pages			
				Yes
<code>--without-ndb-binlog</code>	Disable ndb binlog			
		5.1.6		Yes
<code>--without-ndb-debug</code>	Disable special ndb debug features			
				Yes
<code>--without-plugin-PLUGIN</code>	Exclude PLUGIN			
		5.1.11		Yes
<code>--without-query-cache</code>	Do not build query cache			
				Yes
<code>--without-readline</code>	Use system readline instead of bundled copy			
				Yes
<code>--without-row-based-replication</code>	Don't include row-based replication			
		5.1.7	5.1.14	Yes
<code>--without-server</code>	Only build the client			
				Yes
<code>--without-uca</code>	Skip building of the national Unicode collations			
				Yes