

- `--ndb-log-empty-epochs=[ON|OFF]`

Command-Line Format	<code>--ndb-log-empty-epochs[={OFF ON}]</code>
System Variable	<code>ndb_log_empty_epochs</code>
Scope	Global
Dynamic	Yes
<code>SET_VAR</code> Hint Applies	No
Type	Boolean
Default Value	<code>OFF</code>

Causes epochs during which there were no changes to be written to the `ndb_apply_status` and `ndb_binlog_index` tables, even when `log_slave_updates` is enabled.

By default this option is disabled. Disabling `--ndb-log-empty-epochs` causes epoch transactions with no changes not to be written to the binary log, although a row is still written even for an empty epoch in `ndb_binlog_index`.

Because `--ndb-log-empty-epochs=1` causes the size of the `ndb_binlog_index` table to increase independently of the size of the binary log, users should be prepared to manage the growth of this table, even if they expect the cluster to be idle a large part of the time.

- `--ndb-log-empty-update=[ON|OFF]`

Command-Line Format	<code>--ndb-log-empty-update[={OFF ON}]</code>
System Variable	<code>ndb_log_empty_update</code>
Scope	Global
Dynamic	Yes
<code>SET_VAR</code> Hint Applies	No
Type	Boolean
Default Value	<code>OFF</code>

Causes updates that produced no changes to be written to the `ndb_apply_status` and `ndb_binlog_index` tables, when `log_slave_updates` is enabled.

By default this option is disabled (`OFF`). Disabling `--ndb-log-empty-update` causes updates with no changes not to be written to the binary log.

- `--ndb-log-exclusive-reads=[0|1]`

Command-Line Format	<code>--ndb-log-exclusive-reads[={OFF ON}]</code>
System Variable	<code>ndb_log_exclusive_reads</code>
Scope	Global, Session
Dynamic	Yes
<code>SET_VAR</code> Hint Applies	No
Type	Boolean