

In this case, MySQL Server parses and executes the code within the comment as it would any other SQL statement, but other SQL servers should ignore the extensions. For example, MySQL Server recognizes the `STRAIGHT_JOIN` keyword in the following statement, but other servers should not:

```
SELECT /*! STRAIGHT_JOIN */ coll FROM table1,table2 WHERE ...
```

If you add a version number after the `!` character, the syntax within the comment is executed only if the MySQL version is greater than or equal to the specified version number. The `KEY_BLOCK_SIZE` clause in the following comment is executed only by servers from MySQL 5.1.10 or higher:

```
CREATE TABLE t1(a INT, KEY (a)) /*!50110 KEY_BLOCK_SIZE=1024 */;
```

The following descriptions list MySQL extensions, organized by category.

- Organization of data on disk

MySQL Server maps each database to a directory under the MySQL data directory, and maps tables within a database to file names in the database directory. Consequently, database and table names are case-sensitive in MySQL Server on operating systems that have case-sensitive file names (such as most Unix systems). See [Section 9.2.3, “Identifier Case Sensitivity”](#).

- General language syntax

- By default, strings can be enclosed by `"` as well as `'`. If the `ANSI_QUOTES` SQL mode is enabled, strings can be enclosed only by `'` and the server interprets strings enclosed by `"` as identifiers.
- `\` is the escape character in strings.
- In SQL statements, you can access tables from different databases with the `db_name.tbl_name` syntax. Some SQL servers provide the same functionality but call this `User space`. MySQL Server doesn't support tablespaces such as used in statements like this: `CREATE TABLE ralph.my_table ... IN my_tablespace.`

- SQL statement syntax

- The `ANALYZE TABLE`, `CHECK TABLE`, `OPTIMIZE TABLE`, and `REPAIR TABLE` statements.
- The `CREATE DATABASE`, `DROP DATABASE`, and `ALTER DATABASE` statements. See [Section 13.1.12, “CREATE DATABASE Statement”](#), [Section 13.1.24, “DROP DATABASE Statement”](#), and [Section 13.1.2, “ALTER DATABASE Statement”](#).
- The `DO` statement.
- `EXPLAIN SELECT` to obtain a description of how tables are processed by the query optimizer.
- The `FLUSH` and `RESET` statements.
- The `SET` statement. See [Section 13.7.6.1, “SET Syntax for Variable Assignment”](#).
- The `SHOW` statement. See [Section 13.7.7, “SHOW Statements”](#). The information produced by many of the MySQL-specific `SHOW` statements can be obtained in more standard fashion by using `SELECT` to query `INFORMATION_SCHEMA`. See [Chapter 25, *INFORMATION_SCHEMA Tables*](#).
- Use of `LOAD DATA`. In many cases, this syntax is compatible with Oracle `LOAD DATA`. See [Section 13.2.7, “LOAD DATA Statement”](#).
- Use of `RENAME TABLE`. See [Section 13.1.36, “RENAME TABLE Statement”](#).
- Use of `REPLACE` instead of `DELETE` plus `INSERT`. See [Section 13.2.9, “REPLACE Statement”](#).