

MySQL SQL Statement Quick Reference

Data definition

ALTER TABLE

```
ALTER [IGNORE] TABLE tbl_name
    alter_specification [, alter_specification] ...
```

alter_specification

```
ADD [COLUMN] column_definition [FIRST | AFTER col_name ]
| ADD [COLUMN] (column_definition,...)
| ADD INDEX [index_name] [index_type] (index_col_name,...)
| ADD [CONSTRAINT [symbol]]
    PRIMARY KEY [index_type] (index_col_name,...)
| ADD [CONSTRAINT [symbol]]
    UNIQUE [index_name] [index_type] (index_col_name,...)
| ADD [FULLTEXT|SPATIAL] [index_name] (index_col_name,...)
| ADD [CONSTRAINT [symbol]]
    FOREIGN KEY [index_name] (index_col_name,...)
    [reference_definition]
| ALTER [COLUMN] col_name {SET DEFAULT literal | DROP DEFAULT}
| CHANGE [COLUMN] old_col_name column_definition
    [FIRST|AFTER col_name]
| MODIFY [COLUMN] column_definition [FIRST | AFTER col_name]
| DROP [COLUMN] col_name
| DROP PRIMARY KEY
| DROP INDEX index_name
| DROP FOREIGN KEY fk_symbol
| RENAME [TO] new_tbl_name
```

CREATE TABLE

```
CREATE [TEMPORARY] TABLE [IF NOT EXISTS] tbl_name
    [(create_definition,...)]
    [table_options] [select_statement]
```

create_definition

```
column_definition
| [CONSTRAINT [symbol]] PRIMARY KEY [index_type]
(index_col_name,...)
| KEY [index_name] [index_type] (index_col_name,...)
| INDEX [index_name] [index_type] (index_col_name,...)
| [CONSTRAINT [symbol]] UNIQUE [INDEX]
    [index_name] [index_type] (index_col_name,...)
| [FULLTEXT|SPATIAL] [INDEX] [index_name] (index_col_name,...)
| [CONSTRAINT [symbol]] FOREIGN KEY
    [index_name] (index_col_name,...) [reference_definition]
| CHECK (expr)
```

RENAME TABLE

```
RENAME TABLE tbl_name TO new_tbl_name
    [, tbl_name2 TO new_tbl_name2] ...
```

Data manipulation

DELETE

```
DELETE [LOW PRIORITY] [QUICK] [IGNORE] FROM tbl_name
    [WHERE where_definition]
    [ORDER BY ...]
    [LIMIT row_count]
```

INSERT

```
INSERT [LOW PRIORITY | DELAYED | HIGH_PRIORITY] [IGNORE]
    [INTO] tbl_name [(col_name,...)]
    VALUES ((expr | DEFAULT),...), (...),...
    [ ON DUPLICATE KEY UPDATE col_name=expr, ... ]
```

```
INSERT [LOW PRIORITY | DELAYED | HIGH_PRIORITY] [IGNORE]
    [INTO] tbl_name
    SET col_name={expr | DEFAULT}, ...
    [ ON DUPLICATE KEY UPDATE col_name=expr, ... ]
```

```
INSERT [LOW PRIORITY | HIGH_PRIORITY] [IGNORE]
    [INTO] tbl_name [(col_name,...)]
    SELECT ...
    [ ON DUPLICATE KEY UPDATE col_name=expr, ... ]
```

SELECT

```
SELECT
    [ALL | DISTINCT | DISTINCTROW ]
    [HIGH PRIORITY]
    [STRAIGHT JOIN]
    [SQL_SMALL_RESULT] [SQL_BIG_RESULT] [SQL_BUFFER_RESULT]
    [SQL_CACHE | SQL_NO_CACHE] [SQL_CALC_FOUND_ROWS]
    select_expr, ...
    [INTO OUTFILE 'file_name' export_options
    | INTO DUMPFILE 'file_name']
    [FROM table_references
    [WHERE where_definition]
    [GROUP BY {col_name | expr | position}
    [ASC | DESC], ... [WITH ROLLUP]]
    [HAVING where_definition]
    [ORDER BY {col_name | expr | position}
    [ASC | DESC], ...]
    [LIMIT {[offset,] row_count | row_count OFFSET offset}]
    [PROCEDURE procedure_name(argument_list)]
    [FOR UPDATE | LOCK IN SHARE MODE]
```

UPDATE

```
UPDATE [LOW PRIORITY] [IGNORE] tbl_name
    SET col_name1=expr1 [, col_name2=expr2 ...]
    [WHERE where_definition]
    [ORDER BY ...]
    [LIMIT row_count]
```

Definitions, specifications and types

column_definition

```
| [CONSTRAINT [symbol]] PRIMARY KEY [index_type]
(index_col_name,...)
| KEY [index_name] [index_type] (index_col_name,...)
| INDEX [index_name] [index_type] (index_col_name,...)
| [CONSTRAINT [symbol]] UNIQUE [INDEX]
    [index_name] [index_type] (index_col_name,...)
| [FULLTEXT|SPATIAL] [INDEX] [index_name] (index_col_name,...)
| [CONSTRAINT [symbol]] FOREIGN KEY
    [index_name] (index_col_name,...) [reference_definition]
```

reference_definition

```
REFERENCES tbl_name [(index_col_name,...)]
    [MATCH FULL | MATCH PARTIAL | MATCH SIMPLE]
    [ON DELETE reference_option]
    [ON UPDATE reference_option]
```

column_type

```
TINYINT[(length)] [UNSIGNED] [ZEROFILL]
| SMALLINT[(length)] [UNSIGNED] [ZEROFILL]
| MEDIUMINT[(length)] [UNSIGNED] [ZEROFILL]
| INT[(length)] [UNSIGNED] [ZEROFILL]
| INTEGER[(length)] [UNSIGNED] [ZEROFILL]
| BIGINT[(length)] [UNSIGNED] [ZEROFILL]
| REAL[(length,decimals)] [UNSIGNED] [ZEROFILL]
| DOUBLE[(length,decimals)] [UNSIGNED] [ZEROFILL]
| FLOAT[(length,decimals)] [UNSIGNED] [ZEROFILL]
| DECIMAL(length,decimals) [UNSIGNED] [ZEROFILL]
| NUMERIC(length,decimals) [UNSIGNED] [ZEROFILL]
| DATE | TIME | TIMESTAMP | DATETIME
| CHAR(length) [BINARY | ASCII | UNICODE]
| VARCHAR(length) [BINARY]
| TINYBLOB | BLOB | MEDIUMBLOB | LONGBLOB
| TINYTEXT [BINARY] | TEXT [BINARY] | MEDIUMTEXT [BINARY]
| LONGTEXT [BINARY]
| ENUM(value1,value2,value3,...)
| SET(value1,value2,value3,...)
```