SQL Quick Reference

DML (Data Manipulation Language)

SELECT [DISTINCT | DISTINCTROW | ALL]
select_expression,...
[FROM table_references
[WHERE where_definition]
[GROUP BY col_name,...]
[HAVING where_definition]
[ORDER BY {unsigned_integer | col_name | formula} [ASC | DESC]
,...]
[LIMIT [offset,] rows]
[PROCEDURE procedure_name]]

table_reference [CROSS] JOIN table_reference table_reference INNER JOIN table_reference table_reference STRAIGHT_JOIN table_reference table_reference LEFT [OUTER] JOIN table_reference ON conditional_expr table_reference LEFT [OUTER] JOIN table_reference USING (column_list) table_reference NATURAL LEFT [OUTER] JOIN table_reference

INSERT [INTO] tbl_name [(col_name,...)] VALUES (expression,...),(...),...

table_reference, table_reference

INSERT [INTO] tbl_name [(col_name,...)] SELECT ...

INSERT [INTO] tbl_name
SET col_name=expression, col_name=expression, ...

DELETE [LOW_PRIORITY] FROM tbl_name [WHERE where_definition]

UPDATE tbl_name SET col_name1=expr1,col_name2=expr2,... [WHERE where_definition]

DDL (Data Definition Language)

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

create_definition: col_name type [NOT NULL | NULL] [DEFAULT default_value] [AUTO_INCREMENT] [PRIMARY KEY] [reference_definition] or PRIMARY KEY (index_col_name,...) or KEY [index_name] (index_col_name,...) or INDEX [index_name] (index_col_name,...) or UNIQUE [INDEX] [index_name] (index_col_name,...) or [CONSTRAINT symbol] FOREIGN KEY index_name (index_col_name,...) [reference_definition] or CHECK (expr)

DROP TABLE [IF EXISTS] tbl_name [, tbl_name,...]

ALTER TABLE tbl_name alter_spec [, alter_spec ...]

alter specification:

ADD [COLUMN] create_definition [FIRST | AFTER column_name] or ADD [COLUMN] (create_definition, create_definition,...) or ADD INDEX [index_name] (index_col_name,...)

or ADD PRIMARY KEY (index_col_name,...)

or ADD UNIQUE [index_name] (index_col_name,...)

or ALTER [COLUMN] col_name {SET DEFAULT literal | DROP DEFAULT}

or CHANGE [COLUMN] old col name create definition

or MODIFY [COLUMN] create_definition

or DROP [COLUMN] col_name

or DROP PRIMARY KEY

or DROP INDEX index name

or RENAME [AS] new_tbl_name

or table options

CREATE [UNIQUE] INDEX index_name ON tbl_name (col_name[(length)],...)

DROP INDEX index_name ON tbl_name

CREATE [AGGREGATE] FUNCTION function_name RETURNS {STRING|REAL|INTEGER} SONAME shared_library_name

DROP FUNCTION function name

AC (Access Control)

GRANT priv_type [(column_list)] [, priv_type [(column_list)] ...]
ON {tbl_name | * | *.* | db_name.*}
TO user_name [IDENTIFIED BY 'password']
[, user_name [IDENTIFIED BY 'password'] ...]
[WITH GRANT OPTION]

REVOKE priv_type [(column_list)] [, priv_type [(column_list)] ...]
ON {tbl_name | * | *.* | db_name.*}
FROM user_name [, user_name ...]

priv_type:

ALL PRIVILEGES FILE RELOAD ALTER INDEX SELECT CREATE INSERT SHUTDOWN DELETE PROCESS UPDATE DROP REFERENCES USAGE

TC (Transaction Control)

COMMIT [WORK] ROLLBACK [WORK]

Programmatic SQL

EXPLAIN tbl_name

EXPLAIN SELECT select_options

{DESCRIBE | DESC} tbl_name {col_name | wild}