## **SQL Syntax**

SQL is followed by a unique set of rules and guidelines called Syntax. This module gives you a quick start with SQL by listing all the basic SQL Syntax.

All the SQL statements start with any of the keywords like SELECT, INSERT, UPDATE, DELETE, ALTER, DROP, CREATE, USE, SHOW and all the statements end with a semicolon (;).

The most important point to be noted here is that SQL is case insensitive, which means SELECT and select have same meaning in SQL statements. Whereas, MySQL makes difference in table names. So, if you are working with MySQL, then you need to give table names as they exist in the database.

## Various Syntax in SQL

All the examples given in this module have been tested with a MySQL server.

```
SQL SELECT Statement
SELECT column1, column2....columnN
FROM table_name;
SOL DISTINCT Clause
SELECT DISTINCT column1, column2....columnN
FROM table name;
SQL WHERE Clause
SELECT column1, column2....columnN
FROM table_name
WHERE CONDITION:
SOL AND/OR Clause
SELECT column1, column2....columnN
FROM table name
WHERE CONDITION-1 {AND|OR} CONDITION-2;
SQL IN Clause
SELECT column1, column2....columnN
```

```
FROM table name
```

WHERE column\_name IN (val-1, val-2,...val-N);

SQL BETWEEN Clause

SELECT column1, column2....columnN

FROM table\_name

WHERE column\_name BETWEEN val-1 AND val-2;

SQL LIKE Clause

SELECT column1, column2....columnN

FROM table\_name

WHERE column name LIKE { PATTERN };

SQL ORDER BY Clause

SELECT column1, column2....columnN

FROM table\_name

WHERE CONDITION

ORDER BY column\_name {ASC|DESC};

SQL GROUP BY Clause

SELECT SUM(column\_name)

FROM table\_name

WHERE CONDITION

GROUP BY column\_name;

SQL COUNT Clause

SELECT COUNT(column\_name)

FROM table\_name

WHERE CONDITION;

SQL HAVING Clause

SELECT SUM(column\_name)

FROM table name

WHERE CONDITION

GROUP BY column\_name

HAVING (arithematic function condition);

SOL CREATE TABLE Statement

CREATE TABLE table\_name(

column1 datatype,

```
column2 datatype,
column3 datatype,
columnN datatype,
PRIMARY KEY( one or more columns )
SQL DROP TABLE Statement
DROP TABLE table_name;
SQL CREATE INDEX Statement
CREATE UNIQUE INDEX index name
ON table_name ( column1, column2,...columnN);
SQL DROP INDEX Statement
ALTER TABLE table_name
DROP INDEX index name;
SQL DESC Statement
DESC table_name;
SQL TRUNCATE TABLE Statement
TRUNCATE TABLE table name;
SQL ALTER TABLE Statement
ALTER TABLE table name {ADD|DROP|MODIFY} column name
{data_ype};
SQL ALTER TABLE Statement (Rename)
ALTER TABLE table_name RENAME TO new_table_name;
SOL INSERT INTO Statement
INSERT INTO table_name( column1, column2....columnN)
VALUES (value1, value2....valueN);
SQL UPDATE Statement
UPDATE table_name
SET column1 = value1, column2 = value2....columnN=valueN
[ WHERE CONDITION ];
SOL DELETE Statement
DELETE FROM table name
WHERE {CONDITION};
SQL CREATE DATABASE Statement
```

CREATE DATABASE database\_name;

SQL DROP DATABASE Statement

DROP DATABASE database\_name;

SQL USE Statement

USE database\_name;

SQL COMMIT Statement

COMMIT;

SQL ROLLBACK Statement

ROLLBACK;