**Various Syntax in SQL**

References: https://www.tutorialspoint.com/sql/sql-create-database.htm

### **SQL SELECT Statement**

SELECT column1, column2....columnN

FROM table\_name;

### **SQL DISTINCT Clause**

SELECT DISTINCT column1, column2....columnN

FROM table\_name;

### **SQL WHERE Clause**

SELECT column1, column2....columnN

FROM table\_name

WHERE CONDITION;

### **SQL 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);

### **SQL 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;

### **SQL 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 ];

### **SQL 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;

# **SQL - CREATE Table**

CREATE TABLE table\_name(

column1 datatype,

column2 datatype,

column3 datatype,

.....

columnN datatype,

PRIMARY KEY( one or more columns )

);

# **SQL - DROP or DELETE Table**

DROP TABLE table\_name;

# **SQL - INSERT Query**

INSERT INTO TABLE\_NAME (column1, column2, column3,...columnN)

VALUES (value1, value2, value3,...valueN);

**OR**

INSERT INTO TABLE\_NAME VALUES (value1,value2,value3,...valueN);

# **SQL - SELECT Query**

SELECT \* FROM table\_name;

SELECT column1, column2, columnN FROM table\_name;

# **SQL - WHERE Clause**

SELECT column1, column2, columnN

FROM table\_name

WHERE [condition]

# **SQL - AND and OR**

SELECT column1, column2, columnN

FROM table\_name

WHERE [condition1] AND [condition2]...AND [conditionN];

SELECT column1, column2, columnN

FROM table\_name

WHERE [condition1] OR [condition2]...OR [conditionN]

# **SQL - UPDATE Query**

UPDATE table\_name

SET column1 = value1, column2 = value2...., columnN = valueN

WHERE [condition];

# **SQL - DELETE Query**

DELETE FROM table\_name

WHERE [condition];

# **SQL - LIKE Clause**

SELECT FROM table\_name

WHERE column LIKE 'XXXX%'

or

SELECT FROM table\_name

WHERE column LIKE '%XXXX%'

or

SELECT FROM table\_name

WHERE column LIKE 'XXXX\_'

or

SELECT FROM table\_name

WHERE column LIKE '\_XXXX'

or

SELECT FROM table\_name

WHERE column LIKE '\_XXXX\_'

|  |  |
| --- | --- |
| **Sr.No.** | **Statement & Description** |
| 1 | **WHERE SALARY LIKE '200%'**  Finds any values that start with 200. |
| 2 | **WHERE SALARY LIKE '%200%'**  Finds any values that have 200 in any position. |
| 3 | **WHERE SALARY LIKE '\_00%'**  Finds any values that have 00 in the second and third positions. |
| 4 | **WHERE SALARY LIKE '2\_%\_%'**  Finds any values that start with 2 and are at least 3 characters in length. |
| 5 | **WHERE SALARY LIKE '%2'**  Finds any values that end with 2. |
| 6 | **WHERE SALARY LIKE '\_2%3'**  Finds any values that have a 2 in the second position and end with a 3. |
| 7 | **WHERE SALARY LIKE '2\_\_\_3'**  Finds any values in a five-digit number that start with 2 and end with 3. |