

# SQL SYNTAX

## 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 (arithmetic 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 database_name;
```

**SQL COMMIT Statement:**

`COMMIT;`

**SQL ROLLBACK Statement:**

`ROLLBACK;`