

SQLITE - AUTO INCREMENT

http://www.tutorialspoint.com/sqlite/sqlite_using_autoincrement.htm

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SQLite **AUTOINCREMENT** is a keyword used for auto incrementing a value of a field in the table. We can auto increment a field value by using **AUTOINCREMENT** keyword when creating a table with specific column name to auto incrementing it.

The keyword **AUTOINCREMENT** can be used with INTEGER field only.

Syntax:

The basic usage of **AUTOINCREMENT** keyword is as follows:

```
CREATE TABLE table_name(  
    column1 INTEGER AUTOINCREMENT,  
    column2 datatype,  
    column3 datatype,  
    ....  
    columnN datatype,  
);
```

Example:

Consider COMPANY table to be created as follows:

```
sqlite> CREATE TABLE COMPANY(  
    ID INTEGER PRIMARY KEY AUTOINCREMENT,  
    NAME TEXT NOT NULL,  
    AGE INT NOT NULL,  
    ADDRESS CHAR(50),  
    SALARY REAL  
);
```

Now, insert following records into table COMPANY:

```
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'Paul', 32, 'California', 20000.00 );  
  
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'Allen', 25, 'Texas', 15000.00 );  
  
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'Teddy', 23, 'Norway', 20000.00 );  
  
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'Mark', 25, 'Rich-Mond ', 65000.00 );  
  
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'David', 27, 'Texas', 85000.00 );  
  
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'Kim', 22, 'South-Hall', 45000.00 );  
  
INSERT INTO COMPANY (NAME,AGE,ADDRESS,SALARY)  
VALUES ( 'James', 24, 'Houston', 10000.00 );
```

This will insert 7 tuples into the table COMPANY and COMPANY will have the following records:

| ID | NAME | AGE | ADDRESS | SALARY |
|----|-------|-----|------------|---------|
| 1 | Paul | 32 | California | 20000.0 |
| 2 | Allen | 25 | Texas | 15000.0 |

| | | | | |
|---|-------|----|------------|---------|
| 3 | Teddy | 23 | Norway | 20000.0 |
| 4 | Mark | 25 | Rich-Mond | 65000.0 |
| 5 | David | 27 | Texas | 85000.0 |
| 6 | Kim | 22 | South-Hall | 45000.0 |
| 7 | James | 24 | Houston | 10000.0 |