

SQLITE - CREATE TABLE

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

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The SQLite **CREATE TABLE** statement is used to create a new table in any of the given database. Creating a basic table involves naming the table and defining its columns and each column's data type.

Syntax:

Basic syntax of CREATE TABLE statement is as follows:

```
CREATE TABLE database_name.table_name(  
    column1 datatype PRIMARY KEY(one or more columns),  
    column2 datatype,  
    column3 datatype,  
    ....  
    columnN datatype,  
);
```

CREATE TABLE is the keyword telling the database system to create a new table. The unique name or identifier for the table follows the CREATE TABLE statement. Optionally you can specify *database_name* along with *table_name*.

Example:

Following is an example which creates a COMPANY table with ID as primary key and NOT NULL are the constraints showing that these fields can not be NULL while creating records in this table:

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

Let us create one more table, which we will use in our exercises in subsequent chapters:

```
sqlite> CREATE TABLE DEPARTMENT(  
    ID INT PRIMARY KEY     NOT NULL,  
    DEPT          CHAR(50) NOT NULL,  
    EMP_ID        INT       NOT NULL  
);
```

You can verify if your table has been created successfully using SQLite command **.tables** command, which will be used to list down all the tables in an attached database.

```
sqlite>.tables  
COMPANY      DEPARTMENT
```

Here, you can see COMPANY table twice because its showing COMPANY table for main database and test.COMPANY table for 'test' alias created for your testDB.db. You can get complete information about a table using SQLite **.schema** command as follows:

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

