

POSTGRESQL - CREATE TABLE

http://www.tutorialspoint.com/postgresql/postgresql_create_table.htm

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The PostgreSQL CREATE TABLE statement is used to create a new table in any of the given database.

Syntax

Basic syntax of CREATE TABLE statement is as follows:

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

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. Initially empty table in the current database and will be owned by the user issuing the command.

Then in brackets comes the list defining each column in the table and what sort of data type it is. The syntax becomes clearer with an example below.

Examples

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:

```
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:

```
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 **\d** command, which will be used to list down all the tables in an attached database.

```
testdb-# \d
```

Above PostgreSQL statement will produce the following result:

List of relations			
Schema	Name	Type	Owner
public	company	table	postgres
public	department	table	postgres
(2 rows)			

Use **\d tablename** to describe each table as shown below:

```
testdb=# \d company
```

Above PostgreSQL statement will produce the following result:

```
Table "public.company"
 Column | Type | Modifiers
-----+-----+-----+
 id    | integer | not null
 name  | text | not null
 age   | integer | not null
 address | character(50) |
 salary | real |
 join_date | date |
Indexes:
"company_pkey" PRIMARY KEY, btree (id)
```