## T-SQL - Create Tables

Creating a basic table involves naming the table and defining its columns and each column's data type.

The SQL Server CREATE TABLE statement is used to create a new table.

## **Syntax**

Following is the basic syntax of CREATE TABLE statement -

```
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 what you want to do. In this case, you want to create a new table. The unique name or identifier for the table follows the CREATE TABLE statement. Then in brackets comes the list defining each column in the table and what sort of data type it is. The syntax becomes clearer to understand with the following example.

A copy of an existing table can be created using a combination of the CREATE TABLE statement and the SELECT statement. You can check complete details at Create Table Using another Table.

## **Example**

In this example, let's create a CUSTOMERS table with ID as primary key and NOT NULL are the constraints showing that these fields cannot be NULL while creating records in this table –

```
CREATE TABLE CUSTOMERS(

ID INT NOT NULL,

NAME VARCHAR (20) NOT NULL,

AGE INT NOT NULL,

ADDRESS CHAR (25),

SALARY DECIMAL (18, 2),

PRIMARY KEY (ID));
```

You can verify if your table has been created successfully by looking at the message displayed by the SQL server, otherwise you can use the following command –

exec sp\_columns CUSTOMERS

The above command produces the following output.

PRECIS	SION L	TABLE_OWNI	RADIX	NULLA	BLE REM	IARKS	COI	TA_TYPE LUMN_DEF	SQL_	DATA_TYF
SQL_DA	TETIME_	_SUB CHAR_0	OCTET_LENG	IH C	ORDINAL_PO	STITC	)N _	[S_NULLA	REF 2	SS_DATA_1
TestDB	dbo	CUSTOMERS	ID	4	int	10	4	0	10	0
NULL	NULL	4 NULL	NULL	1	NO	56				
TestDB	dbo	CUSTOMERS	NAME	12	varchar	20	20	NULL	NULL	0
NULL	NULL	12 NULL	20	2	NO	39				
TestDB	dbo	CUSTOMERS	AGE	4	int	10	4	0	10	0
NULL	NULL	4 NULL	NULL	3	NO	56				
TestDB	dbo	CUSTOMERS	ADDRESS	1	char	25	25	NULL	NULL	1
NULL	NULL	1 NULL	25 4	YES	39					
TestDB	dbo	CUSTOMERS	SALARY	3	decimal	18	20	2	10	1
NULL	NULL	3 NULL	NULL	5	YES	106				
4										<b></b>

You can now see that CUSTOMERS table is available in your database which you can use to store required information related to customers.