

1. Data Modification Language

Step 1: Insert rows into table

Syntax

-- let there be N columns in a table

```
INSERT INTO <tableName>
```

```
values
```

```
(Column1Value,Column2Value, Column3Value,...,ColumnNValue), --row 1
```

```
(Column1Value,Column2Value, Column3Value,...,ColumnNValue), --row2
```

```
(Column1Value,Column2Value, Column3Value,...,ColumnNValue) -row 3
```

Or

```
INSERT INTO <tableName> (ColumnX,ColumnY) -- List of Columns
```

```
values
```

```
(ColumnXValue,ColumnYValue), --Row 1 list of Correspong column values
```

```
(ColumnXValue,ColumnYValue), --Row 2
```

```
(ColumnXValue,ColumnYValue) -Row 3
```

Try the following

```
INSERT INTO [Students1] ([RollNo],[Name],[Age],[GPA],[DOB])
```

```
VALUES (13, 'Ahmed', '20', 2.4, '1/1/1990')
```

```
GO
```

Try the following

```
INSERT INTO [Students1] ([RollNo],[Name],[GPA])
```

```
VALUES (13, 'Ahmed', 2.4)
```

```
GO
```

Step 2: To see the data from you table use the following table

```
Select * from tableName
```

Try the following and see the results

```
Select * from Students1
```

Results	Messages			
RollNo	Name	Age	GPA	DOB
13	Ahmed	20	2.4	1990-01-01 00:00:00.000
13	Ahmed	NULL	2.4	NULL

Step 3: Delete rows from the table

```
Delete from <tableName>
```

```
Where <conditions>
```

Try the following and see the message and data in table using select query

```
Delete from Students1  
Where Age=20
```

```
row(s) affected)
```

Step 4: Delete all the data from the table

```
Delete from <tableName> --as there is no where condition all rows will be  
deleted
```

Or

```
Truncate table <tableName>
```

Try these two commands after adding some rows to the table and see the results.

Step 5: Updating the rows

```
Update tableName  
set ColumnA=<NewValue>,  
ColumnB=<NewValue>,  
where <Conditions>
```

See the data in table before and after trying the following query

```
Update Students1
set Name='Ali Ahmed'
where Name='Ahmed'
```