

## Ex : 1 Table Creation

### Creation of table by CREATE command:

```
SQL> create table student(regno number,name varchar(10),dept varchar(20),age number,phno number);
```

```
SQL> Table Created.
```

```
SQL> desc student;
```

Name	Null?	Type
REGNO		NUMBER
NAME		VARCHAR2(10)
DEPT		VARCHAR2(20)
AGE		NUMBER
PHNO		NUMBER

### Inserting the values into table by INSERT command:

```
SQL> insert into student values(&regno,&'name',&'dept',&age,&phno);
```

```
Enter value for regno: 52
```

```
Enter value for name: Mari
```

```
Enter value for dept: BCA
```

```
Enter value for age: 19
```

```
Enter value for phno: 9894156789
```

```
old 1: insert into student values(&regno,&'name',&'dept',&age,&phno)
```

```
new 1: insert into student values(52,'Mari','BCA',19,9894156789)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for regno: 55
```

```
Enter value for name: Asik
```

```
Enter value for dept: IT
```

```
Enter value for age: 19
```

```
Enter value for phno: 5678943567
```

```
old 1: insert into student values(&regno,&'name',&'dept',&age,&phno)
```

```
new 1: insert into student values(55,'Asik','IT',19,5678943567)
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for regno: 56
```

```
Enter value for name: Mohan
```

Enter value for dept: CS  
 Enter value for age: 20  
 Enter value for phno: 8999789907  
 old 1: insert into student values(&regno,&name,&dept,&age,&phno)  
 new 1: insert into student values(56,'Mohan','CS',20,8999789907)

1 row created.

SQL> /  
 Enter value for regno: 57  
 Enter value for name: Muthu  
 Enter value for dept: BCA  
 Enter value for age: 19  
 Enter value for phno: 8868879090  
 old 1: insert into student values(&regno,&name,&dept,&age,&phno)  
 new 1: insert into student values(57,'Muthu','BCA',19,8868879090)

1 row created.

SQL> /  
 Enter value for regno: 58  
 Enter value for name: Nantha  
 Enter value for dept: BCA  
 Enter value for age: 19  
 Enter value for phno: 9090877656  
 old 1: insert into student values(&regno,&name,&dept,&age,&phno)  
 new 1: insert into student values(58,'Nantha','BCA',19,9090877656)

1 row created.

SQL> select\*from student;

REGNO	NAME	DEPT	AGE	PHNO
52	Mari	BCA	19	9894156789
55	Asik	IT	19	5678943567
56	Mohan	CS	20	8999789907
57	Muthu	BCA	19	8868879090
58	Nantha	BCA	19	9090877656

**Adding 1 column in the table using ALTER (ADD) command:**

SQL> alter table student add(location varchar(20));

Table altered.

SQL> desc student;

Name	Null?	Type
REGNO		NUMBER
NAME		VARCHAR2(10)
DEPT		VARCHAR2(20)
AGE		NUMBER
PHNO		NUMBER
LOCATION		VARCHAR2(20)

**Update the new add column data by UPDATE command:**

SQL> update student set location='Srivilliputtur' where regno='52';

1 row updated.

SQL> update student set location='Sivakasi' where regno='55';

1 row updated.

SQL> update student set location='Anaikuttam' where regno='56';

1 row updated.

SQL> update student set location='Srivilliputtur' where regno='57';

1 row updated.

SQL> update student set location='Sivakasi' where regno='58';

1 row updated.

SQL> select \* from student;

REGNO	NAME	DEPT	AGE	PHNO	LOCATION
52	Mari	BCA	19	9894156789	Srivilliputtur
55	Asik	IT	19	5678943567	Sivakasi
56	Mohan	CS	20	8999789907	Anaikuttam

57 Muthu	BCA	19 8868879090	Srivilliputtur
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58 Nantha	BCA	19 9090877656	Sivakasi
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### Deleting one column using ALTER (DROP) command:

SQL> alter table student drop(phno);

Table altered.

SQL> select\*from student;

REGNO NAME	DEPT	AGE LOCATION
52 Mari	BCA	19 Srivilliputtur
55 Asik	IT	19 Sivakasi
56 Mohan	CS	20 Anaikuttam
57 Muthu	BCA	19 Srivilliputtur
58 Nantha	BCA	19 Sivakasi

### Recover the deleted data using SAVEPOINT and ROLLBACK Command :

SQL> savepoint dp;

Savepoint created.

SQL> select\*from student;

REGNO NAME	DEPT	AGE LOCATION
52 Mari	BCA	19 Srivilliputtur
55 Asik	IT	19 Sivakasi
56 Mohan	CS	20 Anaikuttam
57 Muthu	BCA	19 Srivilliputtur
58 Nantha	BCA	19 Sivakasi

SQL> delete from student where regno='58';

1 row deleted.

SQL> select\*from student;

REGNO NAME	DEPT	AGE LOCATION
52 Mari	BCA	19 Srivilliputtur

55 Asik	IT	19 Sivakasi
56 Mohan	CS	20 Anaikuttam
57 Muthu	BCA	19 Srivilliputtur

SQL> rollback to dp;

Rollback complete.

SQL> select \* from student;

REGNO	NAME	DEPT	AGE	LOCATION
52 Mari	BCA	19	Srivilliputtur	
55 Asik	IT	19	Sivakasi	
56 Mohan	CS	20	Anaikuttam	
57 Muthu	BCA	19	Srivilliputtur	
58 Nantha	BCA	19	Sivakasi	

**Modifying the Field datatype by ALTER (MODIFY) command :**

SQL> desc student;

Name	Null?	Type
REGNO		NUMBER
NAME		VARCHAR2(10)
DEPT		VARCHAR2(20)
AGE		NUMBER
LOCATION		VARCHAR2(20)

SQL> alter table student modify(regno varchar(10));

Table altered.

SQL> desc student;

Name	Null?	Type
REGNO		VARCHAR2(10)
NAME		VARCHAR2(10)
DEPT		VARCHAR2(20)
AGE		NUMBER
LOCATION		VARCHAR2(20)

**Save the table in the Database:**

SQL> commit;

Commit complete.