

Lab Assignment–1

1. Create table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)

Statement:

```
CREATE TABLE Student (RNo int, name varchar(25), DOB date, gender varchar(6),  
class varchar(3), college varchar(20), city varchar(10), marks int);
```

Output:

Table created.

2. Insert 5 records in student table

Statement:

```
INSERT into Student (RNo, name, DOB, gender, class, college, city, marks) values (1,  
'Prachi', date '2001-09-21', 'Female', 'coe', 'tiet', 'Rohtak', 96);
```

```
INSERT into Student (RNo, name, DOB, gender, class, college, city, marks) values (5,  
'Avi', date '2005-10-11', 'Male', 'coe', 'bits', 'Delhi', 70);
```

```
INSERT into Student (RNo, name, DOB, gender, class, college, city, marks) values (1,  
'Akshit', date '2000-12-11', 'Male', 'enc', 'iit', 'Delhi', 28);
```

```
INSERT into Student (RNo, name, DOB, gender, class, college, city, marks) values (1,  
'Tanya', date '2002-05-01', 'Female', 'ece', 'iit', 'Patiala', 77);
```

```
INSERT into Student (RNo, name, DOB, gender, class, college, city, marks) values (1,  
'Rohit', date '2001-02-12', 'Male', 'mec', 'tiet', 'Mohali', 65);
```

Output:

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

*3. Display the information of all the students***Statement:** Select * from Student;**Output:**

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|---------|-------|
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |
| 5 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 9 | Akshit | 11-DEC-00 | Male | enc | iit | Delhi | 28 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |

*4. Display the detail structure of student table***Statement:** desc Student;

Output:

TABLE STUDENT

| Column | Null? | Type |
|---------|-------|--------------|
| RNO | - | NUMBER |
| NAME | - | VARCHAR2(25) |
| DOB | - | DATE |
| GENDER | - | VARCHAR2(6) |
| CLASS | - | VARCHAR2(3) |
| COLLEGE | - | VARCHAR2(20) |
| CITY | - | VARCHAR2(10) |
| MARKS | - | NUMBER |

5. Display Rno, Name and Class information of 'Patiala' students.

Statement: Select RNo,name,class from Student where city = 'Patiala';

Output:

| RNO | NAME | CLASS |
|-----|-------|-------|
| 11 | Tanya | ece |

6. Display information on ascending order of marks

Statement: Select * from Student order by marks asc;

Output:

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|---------|-------|
| 9 | Akshit | 11-DEC-00 | Male | enc | iit | Delhi | 28 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |
| 5 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |

7. Change the marks of Rno 5 to 89.

Statement: Update Student set RNo=89 where RNo=5;

Output:

1 row(s) updated.

Proof-

Statement: Select * from Student;

Output:

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|---------|-------|
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |
| 89 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 9 | Akshit | 11-DEC-00 | Male | enc | iit | Delhi | 28 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |

8. Change the name and city of Rno 9.

Statement: Update Student set city='banglore', name='rohan' where RNo=9;

Output:

1 row(s) updated.

Proof-

Statement: Select * from Student;

Output:

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|----------|-------|
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |
| 89 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 9 | rohan | 11-DEC-00 | Male | enc | iit | banglore | 28 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |

9. Delete the information of 'Amritsar' city records

Table before:

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|----------|-------|
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |
| 89 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 9 | rohan | 11-DEC-00 | Male | enc | iit | banglore | 28 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |
| 33 | Manya | 05-JUL-03 | Female | coe | tiet | Amritsar | 65 |

Statement: Delete Student where city = 'Amritsar';

Output:

1 row(s) deleted.

Proof-

Statement: Select * from Student;

Output:

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|----------|-------|
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |
| 89 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 9 | rohan | 11-DEC-00 | Male | enc | iit | banglore | 28 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |

10. Delete the records of student where marks<30.

Statement: Delete Student where marks<30;

Output:

1 row(s) deleted.

Proof-

Statement: Select * from Student;

Output:

| RNO | NAME | DOB | GENDER | CLASS | COLLEGE | CITY | MARKS |
|-----|--------|-----------|--------|-------|---------|---------|-------|
| 1 | Prachi | 21-SEP-01 | Female | coe | tiet | Rohtak | 96 |
| 89 | Avi | 11-OCT-05 | Male | coe | bits | Delhi | 70 |
| 11 | Tanya | 01-MAY-02 | Female | ece | iit | Patiala | 77 |
| 21 | Rohit | 12-FEB-01 | Male | mec | tiet | Mohali | 65 |