Lab Assignment–1

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

Ans.

```
CREATE TABLE student(
    Rno int,
    FullName varchar(32),
    Dob date,
    Gender varchar(10),
    ClassName varchar(10),
    College varchar(20),
    City varchar(20),
    Marks int
);
desc student
```

OUTPUT:-

TABLE STUDENT

Column	Null?	Type
RNO	-	NUMBER
FULLNAME	-	VARCHAR2(32)
DOB	-	DATE
GENDER	-	VARCHAR2(10)
CLASSNAME	-	VARCHAR2(10)
COLLEGE	-	VARCHAR2(20)
CITY	-	VARCHAR2(20)
MARKS	-	NUMBER

2. Insert 5 records in student table

Ans.

INSERT INTO student VALUES ('1','Mayank','04-July-2003','MALE','BTECH','TIET','PATIALA','100');
INSERT INTO student VALUES ('2','Shivam','03-june-2002','MALE','BTECH','TIET','PATIALA','95');
INSERT INTO student VALUES ('3','Naman','13-june-2003','MALE','BTECH','TIET','bathinda','90');
INSERT INTO student VALUES ('4','Samarth','04-may-2003','MALE','BTECH','TIET','abhor','80');
INSERT INTO student VALUES ('5','Saksham','04-july-2003','MALE','BTECH','TIET','abhor','70');

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

Ans.

SELECT * FROM student

OUTPUT:-

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90
4	Samarth	04-MAY-03	MALE	BTECH	TIET	abhor	80
5	Saksham	04-JUL-03	MALE	BTECH	TIET	abhor	70

4. Display the detail structure of student table

Ans.

DESC student;

OUTPUT:-

TABLE STUDENT

Column	Null?	Type
RNO	-	NUMBER
FULLNAME	-	VARCHAR2(32)
DOB	-	DATE
GENDER	-	VARCHAR2(10)
CLASSNAME	-	VARCHAR2(10)
COLLEGE	-	VARCHAR2(20)
CITY	-	VARCHAR2(20)
MARKS	-	NUMBER

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

students.

Ans.

```
SELECT RNO,FULLNAME,CLASSNAME FROM student
WHERE CITY='PATIALA'
select * from student
```

OUTPUT:-

RNO	FULLNAME	CLASSNAME
1	Mayank	BTECH
2	Shivam	BTECH

6. Display information on ascending order of marks

Ans.

```
SELECT * FROM student
ORDER BY MARKS ASC;
select * from student
```

OUTPUT:-

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
5	Saksham	04-JUL-03	MALE	BTECH	TIET	abhor	70
4	Samarth	04-MAY-03	MALE	BTECH	TIET	abhor	80
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100

7. Change the marks of Rno 5 to 89.

Ans.

```
UPDATE student
SET MARKS='89'
WHERE RNO='5';
select * from student
```

OUTPUT:-

1 row(s) updated.

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90
4	Samarth	04-MAY-03	MALE	BTECH	TIET	abhor	80
5	Saksham	04-JUL-03	MALE	BTECH	TIET	abhor	89

8. Change the name and city of Rno 9.

Ans.

```
//Changing Roll no first.
```

```
UPDATE student
SET RNO='9'
WHERE RNO='4';
select * from student
```
OUTPUT:-

1 row(s) updated.

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90
9	Samarth	04-MAY-03	MALE	BTECH	TIET	abhor	80
5	Saksham	04-JUL-03	MALE	BTECH	TIET	abhor	89

```
UPDATE student
SET FULLNAME='YASH',CITY='TALWADA'
WHERE RNO='9';
select * from student
```
OUTPUT:-

1 row(s) updated.

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90
9	YASH	04-MAY-03	MALE	BTECH	TIET	TALWADA	80
5	Saksham	04-JUL-03	MALE	BTECH	TIET	abhor	89

9. Delete the information of 'Amritsar' city records

Ans.

```
DELETE FROM student WHERE CITY='abhor';
select * from student
```
OUTPUT:-

```
1 row(s) deleted.
```

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90
9	YASH	04-MAY-03	MALE	BTECH	TIET	TALWADA	80

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

Ans.

```
DELETE FROM student WHERE MARKS<'90';
select * from student
```
OUTPUT:-

```
1 row(s) deleted.
```

RNO	FULLNAME	DOB	GENDER	CLASSNAME	COLLEGE	CITY	MARKS
1	Mayank	04-JUL-03	MALE	BTECH	TIET	PATIALA	100
2	Shivam	03-JUN-02	MALE	BTECH	TIET	PATIALA	95
3	Naman	13-JUN-03	MALE	BTECH	TIET	bathinda	90