NAME: Khushi Garg

ROLL NO.: 401906028

BATCH: EC9

LAB ASSIGNMENT - 2

Q1) Create table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)

Q4) Display the detail structure of student table

```
create table Student(
    Rno int,
    Names varchar(15),
    DOB date,
    Gender varchar(15),
    Classes varchar(15),
    College varchar(100),
    City varchar(15),
    Marks int
);

desc Student;
```

```sql
create table Student(
    Rno int,
    Names varchar(15),
    DOB date,
    Gender varchar(15),
    Classes varchar(15),
    College varchar(100),
    City varchar(15),
    Marks int
);

desc Student;
```

TABLE STUDENT

Column	Null?	Type
RNO	-	NUMBER
NAMES	-	VARCHAR2(15)
DOB	-	DATE
GENDER	-	VARCHAR2(15)
CLASSES	-	VARCHAR2(15)
COLLEGE	-	VARCHAR2(100)
CITY	-	VARCHAR2(15)
MARKS	-	NUMBER

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8 rows selected.

Q2) Insert 5 records in student table

Q3) Display the information of all the students

```sql
insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
    (1, 'Khushi', '16-DEC-2001', 'F', 2, 'Thapar University', 'Patiala', 95);
insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
    (2, 'Sarthak', '15-AUG-2000', 'M', 3, 'VIT', 'Vellore', 96);
insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
    (3, 'Ashi', '27-OCT-2000', 'F', 2, 'Thapar University', 'Patiala', 91);
insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
    (4, 'Harsheen', '16-SEP-2002', 'F', 1, 'Thapar University', 'Patiala', 85);
insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
```

(5, 'Abhinav', '01-APR-2001', 'M', 3, 'IIT', 'Delhi', 75);

select * from Student;

```
13
14  insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
15      (1, 'Khushi', '16-DEC-2001', 'F', 2, 'Thapar University', 'Patiala', 95);
16  insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
17      (2, 'Sarthak', '15-AUG-2000', 'M', 3, 'VIT', 'Vellore', 96);
18  insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
19      (3, 'Ashi', '27-OCT-2000', 'F', 2, 'Thapar University', 'Patiala', 91);
20  insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
21      (4, 'Harsheen', '16-SEP-2002', 'F', 1, 'Thapar University', 'Patiala', 85);
22  insert into Student (Rno, Names, DOB, Gender, Classes, College, City, Marks) values
23      (5, 'Abhinav', '01-APR-2001', 'M', 3, 'IIT', 'Delhi', 75);
24
25  select * from Student;
26
```

RNO	NAMES	DOB	GENDER	CLASSES	COLLEGE	CITY	MARKS
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	M	3	VIT	Vellore	96
3	Ashi	27-OCT-00	F	2	Thapar University	Patiala	91
4	Harsheen	16-SEP-02	F	1	Thapar University	Patiala	85
5	Abhinav	01-APR-01	M	3	IIT	Delhi	75

Download CSV

5 rows selected.

Q5) Display Rno, Name and Class information of ‘Patiala’ students.

select Rno, Names, Classes from Student where City='Patiala';

```
26
27  select Rno, Names, Classes from Student where City='Patiala';
28
```

RNO	NAMES	CLASSES
1	Khushi	2
3	Ashi	2
4	Harsheen	1

Download CSV

3 rows selected.

Q6) Display information on ascending order of marks

select * from Student order by Marks asc;

```
28
29 select * from Student order by Marks asc;
30
31
```

RNO	NAMES	DOB	GENDER	CLASSES	COLLEGE	CITY	MARKS
5	Abhinav	01-APR-01	M	3	IIT	Delhi	75
4	Harsheen	16-SEP-02	F	1	Thapar University	Patiala	85
3	Ashi	27-OCT-00	F	2	Thapar University	Patiala	91
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	M	3	VIT	Vellore	96

Download CSV
5 rows selected.

Q7) Change the marks of Rno 5 to 89.

update Student

set Marks=89 where Rno=5;

select * from Student;

```
30
31 update Student
32     set Marks=89 where Rno=5;
33 select * from Student;
34
35
```

1 row(s) updated.

RNO	NAMES	DOB	GENDER	CLASSES	COLLEGE	CITY	MARKS
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	M	3	VIT	Vellore	96
3	Ashi	27-OCT-00	F	2	Thapar University	Patiala	91
4	Harsheen	16-SEP-02	F	1	Thapar University	Patiala	85
5	Abhinav	01-APR-01	M	3	IIT	Delhi	89

Download CSV
5 rows selected.

Q8) Change the name and city of Rno 4.

update Student

set Names='Chirag', City='Derabassi' where Rno=4;

select * from Student;

```
34
35  update Student
36      set Names='Chirag', City='Derabassi' where Rno=4;
37  select * from Student;
38
```

1 row(s) updated.

RNO	NAMES	DOB	GENDER	CLASSES	COLLEGE	CITY	MARKS
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	M	3	VIT	Vellore	96
3	Ashi	27-OCT-00	F	2	Thapar University	Patiala	91
4	Chirag	16-SEP-02	F	1	Thapar University	Derabassi	85
5	Abhinav	01-APR-01	M	3	IIT	Delhi	89

Download CSV

5 rows selected.

Q9) Delete the information of ‘Delhi’ city records

delete from Student where City='Delhi';

```
38
39  delete from Student where City='Delhi';
40  select * from Student;
```

0 row(s) deleted.

RNO	NAMES	DOB	GENDER	CLASSES	COLLEGE	CITY	MARKS
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	M	3	VIT	Vellore	96
3	Ashi	27-OCT-00	F	2	Thapar University	Patiala	91
4	Chirag	16-SEP-02	F	1	Thapar University	Derabassi	85

Download CSV

4 rows selected.

Q10) Delete the records of student where marks<90.

delete from student where Marks<90;

```
41
42  delete from student where Marks<90;
43  select * from Student;
```

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

RNO	NAMES	DOB	GENDER	CLASSES	COLLEGE	CITY	MARKS
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	M	3	VIT	Vellore	96
3	Ashi	27-OCT-00	F	2	Thapar University	Patiala	91

Download CSV

3 rows selected.

PART-2

Q1) Create table emp which has the following attributes (employee table) (empno, ename, job, sal, deptno)

```
create table Emp(
    Empno int,
    Ename varchar(15),
    Job varchar(30),
    Sal int,
    Deptno int
);
```

```
45
46  create table Emp(
47      Empno int,
48      Ename varchar(15),
49      Job varchar(30),
50      Sal int,
51      Deptno int
52  );
53
54  desc Emp;
55
```

Table created.

TABLE EMP

Column	Null?	Type
EMPNO	-	NUMBER
ENAME	-	VARCHAR2(15)
JOB	-	VARCHAR2(30)
SAL	-	NUMBER
DEPTNO	-	NUMBER

Download CSV

5 rows selected.

Q2) Insert appropriate records in above tables.

```
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (1, 'Raghav', 'Software Engineer', 10000, 10);
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (2, 'Aditi', 'Clerk', 3000, 5);
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (3, 'Swati', 'Salesperson', 10000, 5);
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (4, 'Tanmay', 'Salesperson', 80000, 3);
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (5, 'Krishan', 'Clerk', 1500, 10);
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (6, 'Ridhi', 'Assistant', 3500, 20);
insert into Emp (Empno, Ename, Job, Sal, Deptno) values
    (7, 'Kunal', 'Assistent', 3000, 30);


select * from Emp;
```

```
10
11  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
12      (1, 'Raghav', 'Software Engineer', 10000, 10);
13  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
14      (2, 'Aditi', 'Clerk', 3000, 5);
15  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
16      (3, 'Swati', 'Salesperson', 10000, 5);
17  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
18      (4, 'Tanmay', 'Salesperson', 80000, 3);
19  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
20      (5, 'Krishan', 'Clerk', 1500, 10);
21  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
22      (6, 'Ridhi', 'Assistant', 3500, 20);
23  insert into Emp (Empno, Ename, Job, Sal, Deptno) values
24      (7, 'Kunal', 'Assistent', 3000, 30);
25
26  select * from Emp;
27
```

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Raghav	Software Engineer	10000	10
2	Aditi	Clerk	3000	5
3	Swati	Salesperson	10000	5
4	Tanmay	Salesperson	80000	3
5	Krishan	Clerk	1500	10
6	Ridhi	Assistant	3500	20
7	Kunal	Assistent	3000	30

Download CSV

7 rows selected.

Q3) Get employee no and employee name who works in dept no 10

select Empno, Ename from Emp where Deptno=10;

```
28
29  select Empno, Ename from Emp where Deptno=10;
30
```

EMPNO	ENAME
1	Raghav
5	Krishan

Download CSV

2 rows selected.

Q4) Display the employee names of those clerks whose salary > 2000

select Ename from Emp where (Job='Clerk' and Sal>2000);

```
33
34  select Ename from Emp where (Job='Clerk' and Sal>2000);
```

ENAME
Aditi

Download CSV

Q5) Display name and sal of Salesperson & Clerks

select Ename, Sal from Emp where Job in('Salesperson', 'Clerk');

```
31
32  select Ename, Sal from Emp where Job in('Salesperson', 'Clerk');
33
```

ENAME	SAL
Aditi	3000
Swati	10000
Tanmay	80000
Krishan	1500

Download CSV
4 rows selected.

Q6) Display all details of employees whose salary between 2000 and 3000

select * from Emp where Sal between 2000 and 3000;

```
35
36  select * from Emp where Sal between 2000 and 3000;
```

EMPNO	ENAME	JOB	SAL	DEPTNO
2	Aditi	Clerk	3000	5
7	Kunal	Assistent	3000	30

Download CSV
2 rows selected.

Q7) Display all details of employees whose dept no is 10, 20, or 30

select * from Emp where Deptno in(10, 20, 30);

```
37
38  select * from Emp where Deptno in(10, 20, 30);
39
```

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Raghav	Software Engineer	10000	10
5	Krishan	Clerk	1500	10
6	Ridhi	Assistant	3500	20
7	Kunal	Assistent	3000	30

Download CSV
4 rows selected.

Q9) Display dept no & salary in ascending order of dept no and with in each dept no salary should be in descending order

select Deptno, Sal from Emp order by Deptno asc, Sal desc;

```
41
42  select Deptno, Sal from Emp order by Deptno asc, Sal desc;
43
```

DEPTNO	SAL
3	80000
5	10000
5	3000
10	10000
10	1500
20	3500
30	3000

Download CSV
7 rows selected.

Q10) Display name of employees that starts with ‘k’

select Ename from Emp where Ename like 'K%';

```
39
40  select Ename from Emp where Ename like 'K%';
41
```

ENAME
Krishan
Kunal

Download CSV
2 rows selected.

Q11) Display name of employees that ends with with ‘i’

select Ename from Emp where Ename like '%i';

```
39
40  select Ename from Emp where Ename like '%i';
41
```

ENAME
Aditi
Swati
Ridhi

Download CSV
3 rows selected.