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

);
```

```
1 create table Student(
2
       Rno int,
3
       Names varchar(15),
4
      DOB date,
5
      Gender varchar(15),
       Classes varchar(15),
6
       College varchar(100),
8
       City varchar(15),
9
       Marks int
10 );
11
12 desc Student;
```

TABLE STUDENT

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

Download CSV

8 rows selected.

Q2) Insert 5 records in student table

Q3) Display the information of all the students

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

select * from Student;

```
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, Callege, City, Marks) values
14
15
16
17
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
            (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);
23
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	М	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	М	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	М	3	IIT	Delhi	75
4	Harsheen	16-SEP-02	F	1	Thapar University	Patiala	85
3	Ashi	27-0CT-00	F	2	Thapar University	Patiala	91
1	Khushi	16-DEC-01	F	2	Thapar University	Patiala	95
2	Sarthak	15-AUG-00	М	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	М	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	М	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	М	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	М	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	М	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	М	3	VIT	Vellore	96
3	Ashi	27-0CT-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),
           Sal int,
 50
 51
          Deptno int
 52
     );
 53
 54
     desc Emp;
 55
Table created.
TABLE EMP
          Null?
 Column
                      Type
 EMPNO
                 NUMBER
 ENAME
                  VARCHAR2(15)
                 VARCHAR2(30)
 JOB
 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

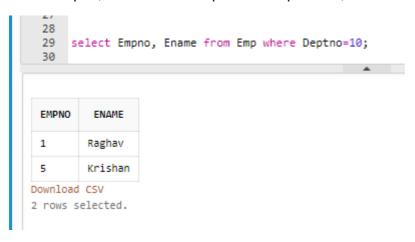
(7, 'Kunal', 'Assistent', 3000, 30);

select * from Emp;

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



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

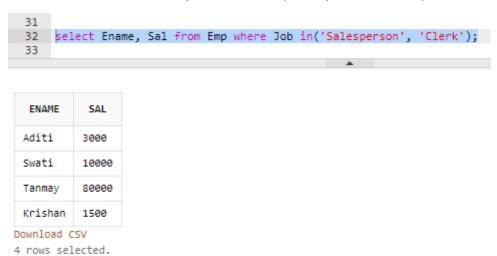
select Ename from Emp where (Job='Clerk' and Sal>2000);

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

ENAME
Aditi
Download CSV
```

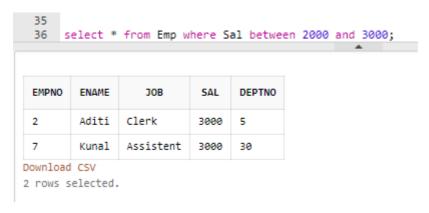
Q5) Display name and sal of Salesperson & Clerks

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



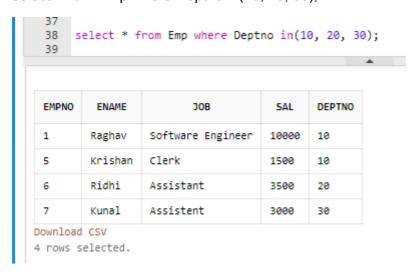
Q6) Display all details of employees whose salary between 2000 and 3000

select * from Emp where Sal between 2000 and 3000;



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

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



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;



Q10) Display name of employees that starts with 'k'

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



Q11) Display name of employees that ends with with 'i'

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

