Name: Panthiv Patel

Roll no: 72 Class: FYCS PRACTICAL 3

A) U sing emp table, perform the following queries:

1) Display the details of all employees.

EMP_NO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
	MTLLED	CLERK	7792	23-JAN-82	1300		10

2) Display the name and job for all employees.

SQL> sele	ect Ename,Job	from	panthiv_EMP;
ENAME	ЈОВ		
KING	PRESIDENT		
BLAKE	MANAGER		
CLARK	MANAGER		
JONES	MANAGER		
SCOTT	ANALYST		
FORD	ANALYST		
SMITH	CLERK		
ALLEN	SALESMAN		
WARD	SALESMAN		
MARTIN	SALESMAN		
TURNER	SALESMAN		
ADAMS	CLERK		
JAMES	CLERK		
MILLER	CLERK		
14 rows s	selected.		

3) Display name and salary for all employees.

SQL> select	Ename, SAL	from	<pre>panthiv_EMP;</pre>
ENAME	SAL		
KING	5000		
BLAKE	2850		
CLARK	2450		
JONES	2975		
SC0TT	3000		
FORD	3000		
SMITH	800		
ALLEN	1600		
WARD	1250		
MARTIN	1250		
TURNER	1500		
ADAMS	1100		
JAMES	950		
MILLER	1300		
14 rows sele	ected.		

4) Display the details of all employees who are earning salary greater than 2000.

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SC0TT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20

5) Display the details of all employees who are working as Manager.

	<pre>SQL> select * from panthiv_EMP 2 where Job='MANAGER';</pre>			C			
- EMP_NO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NO
	22.112	MANAGER		01-MAY-81	2850		30
	CLARK JONES	Manager Manager		09-JUN-81 02-APR-81	2450 2975		10 20

6) Display the names of all employees who are working in department number 10.

SQL> select				8			
EMP_NO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

7) Display the names of all employees working as clerk and drawing a salary more than 3000.

```
SQL> select * from panthiv_EMP
2 where Job='CLERK' and SAL>3000;
no rows selected
```

8) Display employee number and names for employees who earn commission.

9) Display names of employees who do not earn any commission.

10) Display the names of employees who are working as clerk, salesman or analyst and drawing a salary more than 2000.

```
SQL> select Ename from panthiv_EMP

2 where Job in ('CLERK','SALESMAN','ANALYST')and SAL>2000;

ENAME

-----
SCOTT
FORD
```

11) Display the names of employees who are working as clerk, salesman or analyst.

```
SQL> select Ename from panthiv_EMP
2 where Job in('CLERK','SALESMAN','ANALYST');

ENAME
------
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER

10 rows selected.
```

12) Display the names of employees working in department number 10 or 20 or 30.

```
QL> select Ename from panthiv_EMF
 2 where Dept_no in(10,20,30);
NAME
(ING
BLAKE
LARK
ONES
COTT
ORD
MITH
ALLEN
IARD
MARTIN
URNER
ADAMS
JAMES
MILLER
4 rows selected.
```

13) Display the details of employees whose salary lies in the range of 1000 and 2000.

EMP_NO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NO
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521 I	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654 1	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7934 1	MILLER	CLERK	7782	23-JAN-82	1300		10

14) List the employees in the ascending order of their salaries

EMP_NO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10

```
15) List the Empno, Ename, Sal of all emps working for Mgr 7369.

SQL> select Emp_no, Ename, SAL from panthiv_EMP

2 where MGR=7369;
```

16) List the employees who are either 'CLERK' or 'ANALYST' in the Desc order.

EMP_NO ENAME	ЈОВ	MGR H	IREDATE	SAL	COMM	DEPT_NO
7369 SMITH	CLERK	7902 1	7-DEC-80	800		20
7900 JAMES	CLERK	7698 0	3-DEC-81	950		30
7934 MILLER	CLERK	7782 2	3-JAN-82	1300		10
7876 ADAMS	CLERK	7788 2	3-MAY-87	1100		20
7902 FORD	ANALYST	7566 0	3-DEC-81	3000		20
7788 SCOTT	ANALYST	7566 1	9-APR-87	3000		20

17) List the employees who are working in Deptno 10 or 20.

EMP NO ENAME MGR HIREDATE COMM DEPT_NO PRESIDENT 7839 KING 17-NOV-81 5000 7839 09-JUN-81 7782 CLARK MANAGER MANAGER 7839 02-APR-81 7788 SCOTT ANALYST 7566 19-APR-87 3000 7902 FORD ANALYST 7566 03-DEC-81 7369 SMITH 7876 ADAMS 1100

18) List the employees whose name have a character set 'll' together.

SQL> select * - 2 where Enam	from panthiv_EMP me like '%LL%';				
EMP_NO ENA	ME ЈОВ	MGR HIREDATE	SAL	COMM	DEPT_NO
7499 ALLI 7934 MILI		7698 20-FEB-81 7782 23-JAN-82	1600 1300	300	30 10

19) List the employees in ascending order of their names.

EMP_NO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NO
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30

20) List the employees in descending order of their names.

EMP_NO ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPT_NO
7521 WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7844 TURNER	SALESMAN	7698	08-SEP-81	1500		30
7369 SMITH	CLERK	7902	17-DEC-80	800		20
7788 SCOTT	ANALYST	7566	19-APR-87	3000		20
7934 MILLER	CLERK	7782	23-JAN-82	1300		10
7654 MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7839 KING	PRESIDENT		17-NOV-81	5000		10
7566 JONES	MANAGER	7839	02-APR-81	2975		20
7900 JAMES	CLERK	7698	03-DEC-81	950		30
7902 FORD	ANALYST	7566	03-DEC-81	3000		20
7782 CLARK	MANAGER	7839	09-JUN-81	2450		10
7698 BLAKE	MANAGER	7839	01-MAY-81	2850		30
7499 ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7876 ADAMS	CLERK	7788	23-MAY-87	1100		20

21) List the employees who do not belong to Deptno 20.

EMP_NO ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NC
7839 KING	PRESIDENT		17-NOV-81	5000		10
7698 BLAKE	MANAGER	7839	01-MAY-81	2850		36
7782 CLARK	MANAGER	7839	09-JUN-81	2450		16
7499 ALLEN	SALESMAN	7698	20-FEB-81	1600	300	36
7521 WARD	SALESMAN	7698	22-FEB-81	1250	500	36
7654 MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	36
7844 TURNER	SALESMAN	7698	08-SEP-81	1500	0	36
7900 JAMES	CLERK	7698	03-DEC-81	950		36
7934 MILLER	CLERK	7782	23-JAN-82	1300		16

22) List all the employees except PRESIDENT and MANAGER.

EMP_NO I	ENAME	JOB	MGR HIREDATE	SAL	COMM	DEPT_NO
7788	scott	ANALYST	7566 19-APR-87	3000		20
7902	FORD	ANALYST	7566 03-DEC-81	3000		20
7369	SMITH	CLERK	7902 17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698 20-FEB-81	1600	300	30
7521 I	WARD	SALESMAN	7698 22-FEB-81	1250	500	30
7654 1	MARTIN	SALESMAN	7698 28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698 08-SEP-81	1500		30
7876	ADAMS	CLERK	7788 23-MAY-87	1100		20
7900	JAMES	CLERK	7698 03-DEC-81	950		30
7934 1	MILLER	CLERK	7782 23-JAN-82	1300		10

23) List the employees whose name starts with A.

24) List all the Clerks of Deptno 20.

25) List the employees whose names ends with S.

SQL> selec	t * from par Ename like						
EMP_NO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPT_NO
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30

26) List the employees who has name of exactly 4 characters.

```
SQL> select * from panthiv_EMP
2 where Ename like '____';

EMP_NO ENAME JOB MGR HIREDATE SAL COMM DEPT_NO

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30
7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30
7934 MILLER CLERK 7782 23-JAN-82 1300 10
```

27) List the names of the employees who are working as MANAGER in department 10.

```
2 where Job='MANAGER' and Dept_no=10;

EMP_NO ENAME JOB MGR HIREDATE SAL COMM DEPT_NO

7782 CLARK MANAGER 7839 09-JUN-81 2450 10
```

28) List the total salary of employees working as ANALYST.

29) List the minimum, maximum and average salary of the employees.

```
SQL> select MIN(SAL),MAX(SAL),AVG(SAL) from panthiv_EMP;

MIN(SAL) MAX(SAL) AVG(SAL)

800 5000 2073.21429
```

30) List the total number of employees working in department 10.

```
SQL> select Dept_no, count(*)
2 from panthiv_EMP
3 group by Dept_no;

DEPT_NO COUNT(*)
------
30 6
20 5
10 3
```

B) Answer the following queries:

1) Display the total salary of employees department wise.

```
SQL> select Dept_no, sum(SAL) from panthiv_EMP
2 group by Dept_no;

DEPT_NO SUM(SAL)
------
30 9400
20 10875
10 8750
```

2) Display the total salary of employees job wise in ascending order of job.

```
SQL> select Job,sum(SAL)
2 from panthiv_EMP
3 group by Job
4 order by Job ASC;

JOB SUM(SAL)
-------
ANALYST 6000
CLERK 4150
MANAGER 8275
PRESIDENT 5000
SALESMAN 5600
```

3) Display the total number of employees with a specific job.

4) Display the total number of employees working in each department.

```
SQL> select Dept_no,count(*)
2 from panthiv_EMP
3 group by Dept_no;

DEPT_NO COUNT(*)
------
30 6
20 5
10 3
```

5) Display the total salary of employees specific to job and department in ascending order of job.

SQL> select Job,Dept_no,sum(SAL) 2 from panthiv_EMP 3 group by Job,Dept_no 4 order by Job;					
ЈОВ	DEPT_NO	SUM(SAL)			
ANALYST	20	6000			
CLERK	10	1300			
CLERK	20	1900			
CLERK	30	950			
MANAGER	10	2450			
MANAGER	20	2975			
MANAGER	30	2850			
PRESIDENT	10	5000			
SALESMAN	30	5600			
9 rows sele	cted.				

6) Display the total salary of the employees specific to the job when employee count is greater

than 1.

7) Display unique jobs of employees.

```
SQL> select distinct Job
2 from panthiv_EMP
3 ;

JOB
------
CLERK
SALESMAN
PRESIDENT
MANAGER
ANALYST
```