## **DBMS Practical 3**

## 1. Using emp table, perform the following queries:

• Display the details of all employees.

EMPNO E	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839 K	(ING	PRESIDENT		17-NOV-81	5000		10
7698 E	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782 C	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566 J	JONES	MANAGER	7839	02-APR-81	2975		20
7788 5	SCOTT	ANALYST	7566	19-APR-81	3000		20
7902 F	FORD	ANALYST	7566	03-DEC-81	3000		20
7369 9	SMITH	CLERK	7902	17-DEC-80	800		20
7466 A	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521 W	NARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654 M	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844 T	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876 A	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900 J	JAMES	CLERK	7682	03-DEC-81	950		30
7934 M	MILLER	CLERK	7782	23-JAN-82	1300		10

• Display the name and job for all employees.

```
SQL> select ENAME, JOB FROM Emp_Deepak;
ENAME
            JOB
KING PRESIDENT
BLAKE MANAGER
CLARK MANAGER
         MANAGER
ANALYST
JONES
SCOTT
FORD
          ANALYST
SMITH
         CLERK
ALLEN
           SALESMAN
           SALESMAN
WARD
MARTIN
           SALESMAN
           SALESMAN
TURNER
ADAMS
            CLERK
JAMES
            CLERK
MILLER
            CLERK
14 rows selected.
```

Display name and salary for all employees

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

```
SQL> select * FROM Emp_Deepak
2 where sal>2000;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

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-81 3000 20
6 rows selected.
```

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

```
      SQL> select * FROM Emp_Deepak

      2 where JOB='MANAGER';

      EMPNO ENAME
      JOB
      MGR HIREDATE
      SAL
      COMM
      DEPTNO

      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
```

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

```
SQL> select ENAME from Emp_Deepak
2 where DEPTNO=10;

ENAME
------
KING
CLARK
MILLER
```

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

```
SQL> select ENAME from Emp_Deepak
2 where JOB='CLERK' or SAL>3000;

ENAME
------
KING
SMITH
ADAMS
JAMES
MILLER
```

• Display employee number and names for employees who earn commission.

• Display names of employees who do not earn any commission.

```
SQL> select ENAME from Emp_Deepak
2 where COMM IS NULL;

ENAME
-----
KING
BLAKE
CLARK
JONES
SCOTT
FORD
SMITH
ADAMS
JAMES
MILLER

10 rows selected.
```

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

```
SQL> select ENAME from Emp_Deepak
  2 where JOB='CLERK' OR JOB='SALESMAN' OR JOB='ANALYST' or SAL>2000;
ENAME
KING
BLAKE
CLARK
JONES
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER
14 rows selected.
```

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

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

```
SQL> select ENAME from Emp_Deepak
 2 where DEPTNO=10 OR DEPTNO=20 OR DEPTNO=30;
ENAME
KING
BLAKE
CLARK
JONES
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER
14 rows selected.
```

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

_		t * from Em SAL betwee	p_Deepak n 1000 and 2000;					
	EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
	7466	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	0	30
	7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
	7934	MILLER	CLERK	7782	23-JAN-82	1300		10

• List the employees in the ascending order of their salaries.

EMPNO ENAME	JOB	MGR			COMM	DEPTNO	
7369 SMTTH	CLERK	7902		800		20	
	CLERK			950		30	
	CLERK		23-MAY-87			20	
	SALESMAN		28-SEP-81			30	
	SALESMAN		22-FEB-81		500		
	CLERK		23-JAN-82			10	
7844 TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	
7466 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-81	3000		20	
7839 KING	PRESIDENT		17-NOV-81	5000		10	

• List the Empno, Ename, Sal of all emps working for Mgr 7369.

```
SQL> select EMPNO, ENAME, SAL from EMP
2 where MGR=7369;
no rows selected
```

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

```
SQL> select * from Emp_Deepak
2 where JOB='CLERK' OR JOB='ANALYST'
3 ORDER BY JOB DESC;

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7369 SMITH CLERK 7902 17-DEC-80 800 20
7900 JAMES CLERK 7682 03-DEC-81 950 30
7934 MILLER CLERK 7782 23-JAN-82 1300 10
7876 ADAMS CLERK 7782 23-MAY-87 1100 20
7902 FORD ANALYST 7566 03-DEC-81 3000 20
7788 SCOTT ANALYST 7566 19-APR-81 3000 20
6 rows selected.
```

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

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-81	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

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

```
SQL> select * from Emp_Deepak
2 where ENAME LIKE '%LL%';

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7466 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30
7934 MILLER CLERK 7782 23-JAN-82 1300 10
```

• List the employees in ascending order of their names.

EMPNO ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
7876 ADAMS	CLERK	7788	23-MAY-87	1100		20
7466 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	7682	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-81	3000		20
7369 SMITH	CLERK	7902	17-DEC-80	800		20
7844 TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7521 WARD	SALESMAN	7698	22-FEB-81	1250	500	30

• List the employees in descending order of their names.

EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7788	SCOTT	ANALYST	7566	19-APR-81	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	7682	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
7466	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20

• List the employees who do not belong to Deptno 20.

•		t * from Em DEPTNO NOT							
	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	
	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	
	7466	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	0	30	
	7900	JAMES	CLERK	7682	03-DEC-81	950		30	
	7934	MILLER	CLERK	7782	23-JAN-82	1300		10	

• List all the employees except PRESIDENT and MANAGER.

```
SQL> select * from Emp_Deepak
   2 where JOB NOT IN ('PRESIDENT', 'MANAGER');
                                                          MGR HIREDATE
                                                                                             SAL
                                                                                                               COMM
                                                                                                                              DEPTNO
       EMPNO ENAME
                                JOB
7788 SCOTT ANALYST 7566 19-APR-81 3000
7902 FORD ANALYST 7566 03-DEC-81 3000
7369 SMITH CLERK 7902 17-DEC-80 800
7466 ALLEN SALESMAN 7698 20-FEB-81 1600 300
7521 WARD SALESMAN 7698 22-FEB-81 1250 500
7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400
7844 TURNER SALESMAN 7698 08-SEP-81 1500 0
7876 ADAMS CLERK 7788 23-MAY-87 1100
7900 JAMES CLERK 7682 03-DEC-81 950
7934 MILLER CLERK 7782 23-JAN-82 1300
                                                                                                                                     20
                                                                                                                                   20
                                                                                                                                     20
                                                                                                                                     30
                                                                                                                                     30
                                                                                                                                 30
                                                                                                                                 30
                                                                                                                                     20
                                                                                                                                     30
                                                                                                                                     10
10 rows selected.
```

• List the employees whose name starts with A.

• List all the Clerks of Deptno 20.

• List the employees whose names ends with S.

• List the employees who has name of exactly 4 characters.

```
SQL> select * from Emp_Deepak
2 where ENAME LIKE '____';

EMPNO ENAME JOB MGR HIREDATE SAL COMM DEPTNO

7839 KING PRESIDENT 17-NOV-81 5000 10
7902 FORD ANALYST 7566 03-DEC-81 3000 20
7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30
```

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

• List the total salary of employees working as ANALYST.

```
SQL> select SUM(SAL) from Emp_Deepak

2 where JOB='ANALYST';

SUM(SAL)

------
6000
```

• List the minimum, maximum and average salary of the employees.

• List the total number of employees working in department 10.

```
SQL> select COUNT(*) from Emp_Deepak
2 where DEPTNO=10;

COUNT(*)

3
```

## 2. Answer the following queries:

• Display the total salary of employees department wise.

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

• Display the total number of employees with specific job.

```
SQL> SELECT JOB, COUNT(*) FROM Emp_Deepak
2 GROUP BY JOB;

JOB COUNT(*)
------
CLERK 4
SALESMAN 4
PRESIDENT 1
MANAGER 3
ANALYST 2
```

• Display the total number of employees working in each department.

```
SQL> SELECT DEPTNO, COUNT(*) FROM Emp_Deepak
2 GROUP BY DEPTNO;

DEPTNO COUNT(*)

30 6
20 5
10 3
```

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

• Display the total salary of the employees specific to job when employee count is greater than 1.

• Display unique jobs of employees.

```
SQL> SELECT DISTINCT JOB FROM Emp_Deepak;

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