## Experiment No. -05

a) List the employees belonging to the department 20.

b) List the name and salary of the employees whose salary is more than 1000.

```
SQL> SELECT emp1.ename , emp1.sal FROM emp1 INNER JOIN dept ON emp1.Deptno = dept.Deptno WHERE emp1.sal>10
ENAME
                   SAL
ALLEN
                  1250
WARD
JONES
                  2975
MARTIN
                  1250
BLAKE
                  2850
CLARK
                  2450
SCOTT
                  3000
KING
                  5000
TURNER
                  1500
ADAMS
                  1100
FORD
                  3000
ENAME
                   SAL
MILLER
                  1300
12 rows selected.
```

Or

```
SQL> select ename, sal from emp1 where sal>1000;
ENAME
                   SAL
ALLEN
                  1600
WARD
                  1250
                  2975
JONES
MARTIN
                  1250
BLAKE
                  2850
CLARK
                  2450
SCOTT
                  3000
KING
                  5000
TURNER
                  1500
ADAMS
                  1100
FORD
                  3000
ENAME
                   SAL
MILLER
                  1300
12 rows selected.
```

Experiment By :- BIHAR KE LALA

c) List the employee number and the name of the manager.

d) List the names of the clerks working in the department 20.

```
SQL> SELECT ename from emp1 inner join dept on emp1.deptno=dept.deptno where job='CLERK'and dept.deptno=20;

ENAME
------
SMITH
ADAMS
```

e) List the name of the analysts and salesman.

f) List the details of the employees who have joined before the end of September 81.

```
SQL> select * from emp1 where hiredate<'01-oct-1981';
     EMPNO ENAME
                      JOB
                                       MGR HIREDATE
                                                              SAL
                                                                        COMM
                                                                                 DEPTNO
      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
      7566 JONES
                      MANAGER
                                       7839 02-APR-81
                                                             2975
                                                                                      20
      7654 MARTIN
                                                                        1400
                                                                                      30
                      SALESMAN
                                       7698 28-SEP-81
                                                             1250
      7698 BLAKE
                      MANAGER
                                       7839 01-MAY-81
                                                             2850
                                                                                      30
      7782 CLARK
                      MANAGER
                                       7839 09-JUN-81
                                                             2450
                                                                                      10
      7844 TURNER
                      SALESMAN
                                       7698 08-SEP-81
                                                             1500
                                                                                      30
8 rows selected.
```

g) List the names of the employees ho are not managers.

| EMPNO | ENAME  | JOB       | MGR      | HIREDATE  | SAL     | COMM | DEPTNO |
|-------|--------|-----------|----------|-----------|---------|------|--------|
| 7369  | SMITH  | CLERK     | <br>7902 | 17-DEC-80 | <br>800 |      | <br>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     |
| 7788  | SC0TT  | ANALYST   | 7566     | 09-DEC-82 | 3000    |      | 20     |
| 7839  | KING   | PRESIDENT |          | 17-NOV-81 | 5000    |      | 10     |
| 7844  | TURNER | SALESMAN  | 7698     | 08-SEP-81 | 1500    |      | 30     |
| 7876  | ADAMS  | CLERK     | 7788     | 12-JAN-83 | 1100    |      | 20     |
| 7900  | JAMES  | CLERK     | 7698     | 03-DEC-81 | 950     |      | 30     |
| 7902  | FORD   | ANALYST   | 7566     | 03-DEC-81 | 3000    |      | 20     |
| 7934  | MILLER | CLERK     | 7782     | 23-JAN-82 | 1300    |      | 10     |

h) List the name of the employees whose employee numbers 7369,7521,7839,7934,7788.

i) List the employee details not belonging to the department 10,30 and 40.

j) List the employee names who have joined before 30th June'81 and after December '81.

```
SQL> select ename , hiredate from empl where hiredate<'30-JUN-1981' or hiredate>'31-dec-1981';
ENAME
           HIREDATE
SMITH
           17-DEC-80
ALLEN
           20-FEB-81
WARD
           22-FEB-81
JONES
           02-APR-81
           01-MAY-81
BLAKE
CLARK
           09-JUN-81
SC0TT
           09-DEC-82
ADAMS
           12-JAN-83
MILLER
           23-JAN-82
9 rows selected.
```

k) List the name of the employee and designation (job) of the employee who does not report to anybody (who doesn't have manager).

```
Or
```

```
SQL> select ename ,job from emp1 where mgr is null;

ENAME JOB
-----KING PRESIDENT
```

1) List the different jobs (designations) available in the emp table.

```
SQL> SELECT DISTINCT job FROM emp1;

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

m)List the employees not assigned to any department.

```
SQL> select ename from emp1 where deptno is null;
no rows selected

SQL> SELECT e.EName, e.job FROM Emp1 e LEFT JOIN Dept d ON e.Deptno = d.deptno WHERE d.deptno IS NULL;
no rows selected
```

n) List the details of the employees whose salary is greater than 2000 and not eligible for commission.

o) List the employee names having 'I' as the second character.

```
SQL> SELECT ename FROM emp1 WHERE SUBSTR(ename, 2, 1) = 'I';

ENAME
-----
KING
MILLER
```

p) List the name, salary and PF amount of all the employees (PF is calculated as 10% of salary).

| SQL> select ename, sal, sal*0.10 as PF_AMOUNT from emp1; |      |           |  |  |  |  |  |  |
|--|------|-----------|--|--|--|--|--|--|
| ENAME  | SAL  | PF_AMOUNT |  |  |  |  |  |  |
| SMITH  | 800  | 89        |  |  |  |  |  |  |
| ALLEN  | 1600 | 160       |  |  |  |  |  |  |
| WARD   | 1250 | 125       |  |  |  |  |  |  |
| JONES  | 2975 | 297.5     |  |  |  |  |  |  |
| MARTIN   | 1250 | 125       |  |  |  |  |  |  |
| BLAKE  | 2850 | 285       |  |  |  |  |  |  |
| CLARK  | 2450 | 245       |  |  |  |  |  |  |
| SC0TT  | 3000 | 300       |  |  |  |  |  |  |
| KING   | 5000 | 500       |  |  |  |  |  |  |
| TURNER   | 1500 | 150       |  |  |  |  |  |  |
| ADAMS  | 1100 | 110       |  |  |  |  |  |  |
| ENAME  | SAL  | PF_AMOUNT |  |  |  |  |  |  |
| JAMES  | 950  | 95        |  |  |  |  |  |  |
| FORD   | 3000 | 300       |  |  |  |  |  |  |
| MILLER   | 1300 | 130       |  |  |  |  |  |  |
| 14 rows selected.  |      |           |  |  |  |  |  |  |

q) List the employee number, name and salary in ascending order of salary.

| SQL> select | t empno,ename,sat | +rom | empl | order | bу | sal | asc; |   |
|-------------|-------------------|------|------|-------|----|-----|------|---|
| EMPNO       | ENAME             | SAL  |      |       |    |     |      |   |
| 7369        | SMITH             | 800  |      |       |    |     |      |   |
| 7900        | JAMES             | 950  |      |       |    |     |      |   |
| 7876        | ADAMS             | 1100 |      |       |    |     |      |   |
| 7521        | WARD              | 1250 |      |       |    |     |      |   |
| 7654        | MARTIN            | 1250 |      |       |    |     |      |   |
| 7934        | MILLER            | 1300 |      |       |    |     |      |   |
| 7844        | TURNER            | 1500 |      |       |    |     |      |   |
| 7499        | ALLEN             | 1600 |      |       |    |     |      |   |
| 7782        | CLARK             | 2450 |      |       |    |     |      |   |
| 7698        | BLAKE             | 2850 |      |       |    |     |      |   |
| 7566        | JONES             | 2975 |      |       |    |     |      |   |
|             |                   |      |      |       |    |     |      | • |
| EMPNO       | ENAME             | SAL  |      |       |    |     |      |   |
|             |                   |      |      |       |    |     |      |   |
|             |                   | 3000 |      |       |    |     |      |   |
| 7902        |                   | 3000 |      |       |    |     |      |   |
| 7839        | KING              | 5000 |      |       |    |     |      |   |
|             |                   |      |      |       |    |     |      |   |
| 14 rows sel | Lected.           |      |      |       |    |     |      |   |

r) Lists the employee name and hiredate in descending order of hiredate.

SCOTT 09-DEC-82 MILLER 23-JAN-82 FORD 03-DEC-81 JAMES 03-DEC-81 KING 17-NOV-81 MARTIN 28-SEP-81 TURNER 08-SEP-81 CLARK 09-JUN-81 BLAKE 01-MAY-81 JONES 02-APR-81 ENAME HIREDATE WARD 22-FEB-81 ALLEN 20-FEB-81 17-DEC-80 SMITH

14 rows selected.

s) List the employee name, salary, PF, HRA, DA and gross salary; order the result in ascending order of gross. HRA is 50% of salary and DA is 30% of salary.

```
SQL> select ename,sal,sal*0.10 as PF ,sal*0.50 as hra , sal*0.30 as DA,(sal*0.10)+(sal*0.50)+(sal*0.30)+sal as gross_salary FROM Emp1 order by gross
ENAME
                                                                  DA GROSS_SALARY
                      SAL
                                     PF
                                                  HRA
                      800
950
                                                                 330
375
375
390
450
                     1100
1250
1250
ADAMS
                                    110
125
                                                                                 2375
                                     125
                     1300
1500
1600
                                    130
150
                                                  650
750
800
                                    160
                                                                 480
                                                              735
855
892.5
                                    245
285
ONES
                                               1487.5
                                                                              5652.5
                                                                  DA GROSS_SALARY
                                    300
300
500
(ING
4 rows selected.
```

t) List the department number and the total salary payable in each department. List the jobs and number of employees in each job. The result should be in descending order of the number of employees.

u) List the total salary, maximum, minimum and average salary of the employee's job wise.

```
SQL> SELECT JOB, SUM(SAL) AS TotalSalary, MAX(SAL) AS MaxSalary, MIN(SAL) AS MinSalary, AVG(SAL) AS AvgSalary FROM emp1 GROUP BY JOB;
JOB
         TOTALSALARY MAXSALARY MINSALARY AVGSALARY
CLERK
                 4150
                            1300
                                        800
                                                 1037.5
SALESMAN
                 5600
                            1600
                                        1250
                                                   1400
MANAGER
                 8275
                            2975
                                        2450 2758.33333
ANALYST
                            3000
                 6000
                                        3000
                                                   3000
PRESIDENT
                 5000
                            5000
                                        5000
                                                   5000
```

v) List the average salary from each job excluding manager.

w) List the average monthly salary for each job type within department.

```
SQL> SELECT DEPTNO, job, AVG(sal) AS average_monthly_salary FROM emp1 GROUP BY DEPTNO, job;
    DEPTNO JOB
                     AVERAGE_MONTHLY_SALARY
        20 CLERK
                                         950
        30 SALESMAN
                                        1400
        20 MANAGER
                                        2975
        30 MANAGER
                                        2850
        10 MANAGER
                                        2450
        20 ANALYST
                                        3000
        10 PRESIDENT
                                        5000
        30 CLERK
                                         950
        10 CLERK
                                        1300
9 rows selected.
```

x) List average salary for all departments employing more than five people.

y) List job of all the employees where maximum salary is greater than or equal to 3000.

```
SQL> SELECT DISTINCT JOB FROM EMP1 WHERE SAL>=3000;

JOB
-----
ANALYST
PRESIDENT
```

z) List the total salary, maximum and minimum salary and the average salary of employees job wise for department number 20 and display only those rows having average salary greater than 1000.