ASSIGNMENT-3

Ques1 List the employee numbers, names, department numbers and the department name.
SQL>select e.empno, e.ename, e.deptno, d.dname
    from EMP_171 e
    join DEPT_171 d on e.deptno = d.dno;

Ques2 Display the list of employees working in each department. Display the department information even if no employee belongs to that department.
SQL>select d.dname, e.empno, e.ename
    from DEPT_171 d
    LEFT JOIN EMP_171 e on d.dno = e.deptno
    order by d.dname;

Ques3 List the employee names along with their manager's name.
SQL>select e.ename AS employee_name, m.ename AS manager_name
    from EMP_171 e
    LEFT JOIN EMP_171 m on e.emgr = m.empno;

Ques4 List all employees who joined the company before their managers.
SQL>select e.ename AS employee_name, e.ehiredate AS employee_hire_date, m.ename
    as manager_name,
    m.ehiredate AS manager_hire_date
    from EMP_171 e, EMP_171 m
    where e.emgr = m.empno AND e.ehiredate < m.ehiredate;

Ques5 Display the different designations in department no 20 and 30.
SQL>select distinct ejob
    from EMP_171
    where deptno IN (20, 30);

Ques6 List the jobs common to department 20 and 30.
SQL>select ejob
    from EMP_171
    where deptno = 20

intersect
        select ejob
        from EMP_171
         where deptno = 30;

Ques7 List the jobs unique to department 20.

SQL>select distinct ejob
        from EMP_171
         where deptno = 20
        and ejob NOT IN (SELECT ejob FROM EMP_171 WHERE deptno !=
        20);

Ques8 List the employees belonging to the department of MILLER.

SQL>select empno,
        ename from EMP_171
        where deptno = (SELECT deptno FROM EMP_171 WHERE ename =
        'miller');

Ques9 List the job with highest average salary.

SQL>select ejob
        from EMP_171
        group by ejob
        having AVG(esal) = (
        having MAX(avg_sal)
        from(SELECT AVG(esal) AS avg_sal FROM EMP_171 GROUP BY
        ejob));

Ques10 List names of the employee who earns lowest salary in each job

SQL>select ejob, ename
        from EMP_171
        where (ejob, esal) IN (select ejob, MIN(esal) FROM EMP_171 group by
        ejob);

Ques11 List names of the employee who earns lowest salary in each department

SQL>select deptno, ename
        from EMP_171

```
    where (deptno, esal) IN (select  deptno, MIN(esal) FROM EMP_171
    group by deptno);
```

Ques12 List employee details who earn salary greater than the average salary for their department.

```
SQL>select *
    from EMP_171 e
    where e.esal > (
     select AVG(esal)
     from EMP_171
     where deptno = e.deptno
     );
```

Ques13 List employee details whose salary is greater than average salary of all the employees joined before 1st April 1981.

```
SQL>select *
    from EMP_171
    where esal > (select  AVG(esal) from EMP_171 where ehiredate <
    TO_DATE('1981-04-01', 'YYYY-MM-DD'));
```