DBT Problem Solving - Set - 001

***Consider the following relations***

***dept {deptno, dname, loc}***

***emp {empno ename, job, mgr, hiredate, sal, comm, deptno}***

**Given the above relations solve the following queries.**

1. Write a query that display employee number, name and his department name for all the employees.
2. Write SQL statement which will display employee details who are working as ‘manager’ having salary more than 2500.
3. Write SQL statement which will display all unique job types.
4. Write SQL statement which will display the second highest salary.
5. Write SQL statement that displays employee name and his job who are working in the same job as ‘Jones’ is working excluding ‘Jones’ name.
6. Write SQL statement that print all employee details whose salary is more than the average salary of department number 20;
7. Write the SQL statement which displays all the employee details that were hired in the month of ‘December’.
8. Write SQL statement which displays the employee’s name and his department name who are not receiving commission.
9. Write SQL statement that displays all employee names his job type, on which date he was hired with his salary and his department name who are working in 'SALES' department.
10. Increate the salaries of all employee by 10%, 15%, and 20% for deptno 10, 20, and 30 respectively.
11. Write SQL statement which displays the employee’s name with their manager’s name and give proper headings.
12. Write SQL statement to display all the employees who are not managers.

Note: (MGR field contains manager’s number).

1. Write SQL statement which counts how many employees are working in ‘RESEARCH’ department.
2. Write SQL statement which displays the employee’s name whose manager is ‘BLAKE’, arrange the employee’s name in ascending order.
3. Write SQL statement that displays employee information and his department details also print those department details were not employee are working.

Answers Set – 001:

1. **Select empno, ename, dname from emp, dept where emp.deptno = dept.deptno;**
2. **Select \* from emp where job='manager' and sal > 2500;**
3. **Select distinct job from emp;**
4. **Select max(sal) from emp where sal < (select max(sal) from emp);**

**Select sal from EMP group by sal order by sal desc limit 1, 1;**

1. **Select ename, job from emp where job = (select job from emp where ename='Jones') and ename <>'Jones';**
2. **Select \* from emp where sal > (select avg(sal) from emp where deptno=20);**
3. **Select \* from emp where monthname(hiredate) = 'December';**
4. **Select ename, dname from emp inner join dept using(deptno) where comm is null;**
5. **Select \* from emp, dept where emp.deptno = dept.deptno and dname='sales';**
6. **update e set sal = case sal when 10 then sal + sal \*.10 when 20 then sal + sal \*.15 else sal + sal \*.20 end ;**
7. **Select e.ename "Employees Name", m.ename "Managers Name" from emp m, emp e where e.mgr = m.empno;**
8. **Select ename from emp e where not exists (select \* from emp m where e.empno = m.mgr);**
9. **Select count(\*) from emp, dept where emp.deptno = dept.deptno and dname=** ‘RESEARCH’**;**
10. **Select e.ename “Employee Name” from emp e, emp m where e.mgr = m.empno and m.ename = 'BLAKE' order by 1;**
11. **Select \* from emp right outer join dept on emp.deptno = dept.deptno;**