DBT Problem Solving - Set - 005

***Consider the following relations***

***location {locationid, locationname}***

***hobby {hobbyid, hobbyname}***

***dept {deptno, dname, locationid}***

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

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

1. Write a query to all the employees whose job type is 'personal assistant'.
2. Write a query to display all employees whose name starts with a letter 'S' and must have at least 6 characters.
3. Write a query to display top 5 highest paid salaries.
4. Write a query to display all department details where no employees are working.
5. Write a query to display all the employees who don’t have any hobby.
6. Write a query to display employee names and his hobby.
7. Write a query to display hobby name and count how many employees are there for every hobby.
8. Write a query to find the highest salary whose hobby is 'Horse Riding';
9. Write a query to display employee name, department name and his location name.
10. Write a query to display department name and sum of salary who are working in 'IT network' department.
11. Write a query to display the difference between the sum of salaries between 'Manager' and 'Assistant Manager'.
12. Write the query to display hobby name of the employees whose location name is 'California'.
13. Write a query to display department name and location name whose locationID is 1.
14. Write al query that displays all employee who are working in the same location where 'Jay' is working.
15. Write a query to display the location names and count how many employees are working in every location.

Answers Set – 005:

1. select \* from emp where job = "personal assistant"
2. select \* from emp where ename like 'S%' and length(ename) >= 6;
3. select sal from emp group by sal order by sal desc limit 5;
4. select \* from dept where not exists (select \* from emp where emp.deptno = dept.deptno);
5. select \* from emp where hobbyID is null;
6. select ename, hobby from emp, hobby where emp.hobbyid = hobby.hobbyid;
7. select hobbyname, count(\*) from emp, hobby where emp.hobbyid = hobby.hobbyid group by hobbyname;
8. select max(sal) from emp, hobby where emp.hobbyid = hobby.hobbyid and hobbyname = 'Horse Riding';
9. select ename, dname, locationname from emp, dept, location where emp.deptno = dept.deptno and dept.locationid = location.locationid;
10. select dname, sum(sal) from emp, dept where emp.deptno = dept.deptno and dname = 'IT network';
11. select (select sum(sal) from emp where job = 'Manager' ) - (select sum(sal) from emp where job = 'Assistant Manager') as "Difference";
12. select hobbyname from emp, dept, location, hobby where emp.deptno = dept.deptno and dept.locationID = location.locationID and emp.hobbyid = hobby.hobbyid and locationname = 'California'
13. select locationname ,dname from dept, location where dept.locationid = location.locationid and location.locationid = 1;
14. select emp.\* from emp, dept, location where emp.deptno = dept.deptno and dept.locationid = location.locationid and location.locationid in (select location.locationID from emp, dept, location where emp.deptno = dept.deptno and dept.locationid = location.locationid and ename = 'Jay');
15. select locationname, count(\*) from emp, dept, location where emp.deptno = dept.deptno and dept.locationid = location.locationid and location.locationid group by locationname;