DBT Problem Solving - Set - 004

***Consider the following relations***

***salespeople {snum, sname, city, comm}***

***customers {cnum, cname, city, rating, snum}***

***orders {onum, amt, odate, cnum, snum}***

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

1. Write a query to find all pairs of customers having the same rating.
2. Write a query to find the largest order taken by each salesperson on each date, eliminating those MAX orders, which are less than $3000.00 in value.
3. Write a query to fist the largest orders on October, for each salesperson.
4. Write a query to find all customers located in cities where salesperson ‘Serres’ is living.
5. Write a query to get all customers with a rating above 200.
6. Write a query to count the number of salespeople currently listing orders in the Orders table.
7. Write a query to find salespeople who have multiple customers.
8. Write a query to find salespeople with customers located in their city.
9. Write a query to find all salespeople whose name starts with 'P' and the fourth character is 'I'.
10. Write a query to find the largest orders for ‘Serres’ and ‘Rifkin’.
11. Write a query to extract the salespeople table in the following order: snum, sname, commission, and city.
12. Write a query to select all the possible combinations of customers that you can assign.
13. Write a query to select all orders that are greater than the average for ‘October’.
14. Write a query that produces the rating followed by the name of each customer in San Jose.
15. Write a query to find all orders with amounts smaller than any amount for a customer in ‘San Jose’.

Answers Set – 004:

1. select p1.cname, p2.cname from customers p1, customers p2 where p1.rating = p2.rating and p1.cnum <> p2.cnum;
2. select odate, snum, max(amt) from orders group by odate, snum having max(amt) >3000;
3. select snum, max(amt) from orders where monthname(odate) = 'October' group by snum;
4. select c.\* from customers c, salespeople s where c.city = s.city and sname='Serres';
5. select c.\* from customers c where rating > 200;
6. select s.snum, count(\*) from orders o, salespeople s where o.snum = s.snum group by s.snum;
7. select sname, count(\*)from salespeople s, customers c where s.snum = c.snum group by sname having count(\*)>1;
8. select cname, sname from customers c, salespeople s where c.city = s.city;
9. select sname from salespeople where sname like 'p\_\_l%';
10. select sname, max(amt) from orders o, salespeople s where o.snum=s.snum and sname in ('Serres', 'Rifkin') group by sname;
11. select snum, sname, comm, city from salespeople;
12. select c1.cname, c2.cname from customers c1, customers c2;
13. select \* from orders where amt > (select avg(amt) from orders where monthname(odate) = 'October');
14. select rating, cname from customers where city = 'san jose';
15. select \* from orders where amt <any (select amt from customers c, orders o where c.cnum = o.cnum and city ='san jose');