DBT Problem Solving - Set - 003

***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 SQL statement which lists all customers with a rating of 100.
2. Write SQL statement that displays all the salespeople who are living in city ‘London’.
3. Write SQL statement to find the largest order taken by each salesperson.
4. Write SQL statement to find the largest order taken by each salesperson on each date.
5. Write a query to arrange the Orders table by descending customer number.
6. Write a query to find salespeople name, city and current order details like order number, amount and order date from the Orders table.
7. Write a query to list names of all customers matched with the salespeople serving them.
8. Write a query to find the names and numbers of all salespeople who had more than one customer.
9. Write a query to count the orders of each of the salespeople and print the results in descending order.
10. Write a query to list the Customer table that are located in 'San Jose'.
11. Write a query to match salespeople to customers according to what city they lived in.
12. Write a query to find customers in 'San Jose' who has a rating above 200.
13. Write a query to list the names and commissions of all salespeople in 'London'.
14. Write a query to list all the orders of salesperson 'Monika' from the Orders table.
15. Write a query to find all customers with orders in the month of 'October'.

Answers Set – 003:

1. Select \* from customers where rating = 100;
2. Select \* from salespeople where city = 'London'
3. Select sname, max(amt) from salespeople, orders where salespeople.snum = orders.snum group by sname;
4. Select sname, odate, max(amt) from salespeople, orders where salespeople.snum = orders.snum group by sname, odate;
5. Select \* from orders order by cnum desc;
6. Select sname, city, onum, amt, odate from orders o, salespeople s where o.snum = s.snum;
7. Select \* from customers c, salespeople s where c.snum = s.snum;
8. Select sname, count(\*) from salespeople s, customers c where s.snum = c.snum group by sname having count(\*) > 1;
9. Select snum, count(\*) from orders group by snum order by 2 desc;
10. Select \* from customers where city = 'San Jose';
11. Select \* from customers c, salespeople s where c.snum = s.snum and c.city = s.city;
12. Select \* from customers where city = 'san jose' and rating >200;
13. Select sname, comm from salespeople where city = 'London';
14. Select sname, o.\* from orders o, salespeople s where o.snum=s.snum and sname='Monika';
15. Select c.\*, odate from orders o, customers c where c.cnum = o.cnum and monthname(odate) = 'October';