create table salespeople (

snum int NOT NULL PRIMARY KEY,

sname varchar(50) NOT NULL,

city varchar(50),

comm numeric(3,2));

create table cust (

cnum int NOT NULL PRIMARY KEY,

cname varchar(50) NOT NULL,

city varchar(50),

rating int,

snum int,

FOREIGN KEY(snum) REFERENCES salespeople);

create table orders (

onum int NOT NULL PRIMARY KEY,

amt float NOT NULL,

odate date,

cnum int,

snum int,

FOREIGN KEY(cnum) REFERENCES cust,

FOREIGN KEY(snum) REFERENCES salespeople);

insert into salespeople values (1001,'Peel','London',.12);

insert into salespeople values (1002,'Serres','San Jose',.13);

insert into salespeople values (1004,'Motika','London',.11);

insert into salespeople values (1007,'Rafkin','Barcelona',.15);

insert into salespeople values (1003,'Axelrod','New York',.1);

select \* from salespeople;

insert into cust values (2001,'Hoffman','London',100,1001);

insert into cust values (2002,'Giovanne','Rome',200,1003);

insert into cust values (2003,'Liu','San Jose',300,1002);

insert into cust values (2004,'Grass','Berlin',100,1002);

insert into cust values (2006,'Clemens','London',300,1007);

insert into cust values (2007,'Pereira','Rome',100,1004);

insert into cust values (2008,'Montgomery','Paris',300,1003);

insert into cust values (2009,'Montgomery','NULL',300,1003);

insert into cust values (2010,'Montgomery',null,300,1003);

insert into cust values (2011,'Montgomery',NULL,300,1003);

select \* from cust;

insert into orders values (3001,18.69,'03-OCT-94',2008,1007);

insert into orders values (3003,767.19,'03-OCT-94',2001,1001);

insert into orders values (3002,1900.10,'03-OCT-94',2007,1004);

insert into orders values (3005,5160.45,'03-OCT-94',2003,1002);

insert into orders values (3006,1098.16,'04-OCT-94',2008,1007);

insert into orders values (3009,1713.23,'04-OCT-94',2002,1003);

insert into orders values (3007,75.75,'05-OCT-94',2004,1002);

insert into orders values (3008,4723.00,'05-OCT-94',2006,1001);

insert into orders values (3010,1309.95,'06-OCT-94',2004,1002);

insert into orders values (3011,9891.88,'06-OCT-94',2006,1001);

select \* from orders;

1. Display the totals of orders for each day and place the results in descending order.
2. All combinations of salespeople and customers who shared a city. (i.e. same city).
3. Name all customers matched with the salespeople serving them.
4. List each order number followed by the name of the customer who made the order.
5. Names of salesperson and customer for each order after the order number.
6. Select all customer serviced by salespeople with a commission above 12%.
7. Calculate the amount of the salesperson’s commission on each order with a rating above 100.
8. Find all pairs of customers having the same rating.
9. Find all pairs of customers having the same rating, each pair coming once only.
10. Select all pairs of salespeople which are living in the same city. Exclude combinations of salespeople with themselves.
11. Select all pairs of orders by the given customer and eliminates duplicates.
12. List names and cities of all customers with the same rating as Hoffman and customer name should be Hoffman.
13. Extract all the orders of Motika.
14. All orders credited to the same salesperson who services Hoffman.
15. All orders that are greater than the average for Oct 4.
16. Find average commission of salespeople in london.
17. Find all orders attributed to salespeople servicing customers in london.
18. Extract commissions of all salespeople servicing customers in London.
19. Find all customers whose cnum is 1000 above the snum of serres.
20. Find total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.
21. Find all customers with order on 3rd Oct.
22. Find names and numbers of all salesperson who have more than one customer.
23. Find all orders with above average amounts for their customers.
24. Find names and numbers of all customers with ratings equal to the maximum for their city.
25. Find all salespeople who have customers in their cities who they don’t service. (Both way using Join and Correlated subquery.)
26. Extract cnum, cname and city from customer table if and only if one or more of the customers in the table are located in San Jose.
27. Find salespeople no. who have multiple customers.
28. Find salespeople number, name and city who have multiple customers.
29. Find salespeople who serve only one customer.
30. Extract rows of all salespeople with more than one current order.
31. Find all salespeople who have customers with a rating of 300. (use EXISTS)
32. Find all salespeople who have customers with a rating of 300. (use Join).
33. Select all salespeople with customers located in their cities who are not assigned to them. (use EXISTS).
34. Find salespeople with customers located in their cities ( using IN).
35. Display all customers located in cities where salesman 'serres' has customer.
36. Find all pairs of customers served by single salesperson.
37. Count the customers with rating above San Jose’s average.
38. Obtain all orders for the customer named Cisnerous. (Assume you don’t know his customer no. (cnum)).
39. List names and rating of all customers who have above average orders.