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create table salespeople
(snum int primary key,
sname char(10),
city char (20),
 comm int not null);
insert into salespeople
values (1001, 'Peel', 'London', 12)
 insert into salespeople
values (1002, 'Serres', 'San Jose', 13);
 insert into salespeople (snum, sname, city, comm)
values (1004, 'Motika', 'London', 11);
insert into salespeople
values (1007, 'Rifkin', 'Barcelona', 15);
 insert into salespeople
values (1003, 'AxelRod', 'New Yrok', 10);
insert into salespeople
values (1008, 'Fran', 'London', 25);
select * from salespeople;
create table orders
(onum int,
amt numeric (7,2),
odate date,
 cnum int,
 snum int);
insert into orders
values (3001, 18.69, '10/03/1990', 2008, 1007);
insert into orders
values (3003, 767.17, '10/03/1990', 2001, 1001);
 insert into orders
values (3002, 1900.10, '10/03/1990', 2007, 1004);
 insert into orders
values (3005, 5160.45, '10/03/1990', 2003, 1002);
 insert into orders
values (3006, 1098.16, '10/03/1990', 2008, 1007);
 insert into orders
values (3009, 1713.23, '10/04/1990', 2002, 1003);
 insert into orders
values (3007, 75.75, '10/04/1990', 2004, 1002);
insert into orders
values (3008, 4723, '10/05/1990', 2006, 1001);
 insert into orders
values (3010, 1309.95, '10/06/1990', 2004, 1002);
 insert into orders
values (3011, 9891.88, '10/06/1990', 2006, 1001);
select * from orders;
create table customers
(cnum int,
cname char(20),
city char (20),
rating int,
 snum int);
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insert into customers
 values (2001, 'Hoffman', 'London', 100, 1001);
 insert into customers
 values (2002, 'Giovanni', 'Rome', 200, 1003);
 insert into customers
 values (2003, 'Lilu', 'San Jose', 200, 1002);
 insert into customers
 values (2004, 'Grass', 'Berlin', 300, 1002);
 insert into customers
 values (2006, 'Clemens', 'London', 100, 1001);
 insert into customers
 values (2008, 'Cisneros', 'San Jose', 300, 1007);
 insert into customers
 values (2007, 'Pereira', 'Rome', 100, 1004);
 select * from customers;
Q1. List all the column of the salespeople table.
   select snum, sname, city, comm
   from salespeople;
Q2. List all customers with a rating of 100.
   select * from customers
   where rating = 100;
Q3. Find the largest order taken by each salesperson on each date.
   select s.snum, odate, MAX(amt) as 'Largest Order'
   from salespeople s, orders o
   where s.snum = o.snum
   group by s.snum, odate
   having MAX(amt) in
      (select amt
       from orders)
Q4. Arrange the Order table by descending customer number.
   select cnum, onum, amt, odate, snum
   from orders
   order by cnum desc
Q5. Find which salespeople currently have orders in the order table.
   select distinct s.snum , sname 'Name', city 'City'
   from salespeople as s
   inner join orders as o
   on s.snum = o.snum
   order by s.snum
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select s.snum, count(onum) as 'No. of orders', sname 'Name', city 'City'
      from salespeople as s
      inner join orders as o
      on s.snum = o.snum
      group by s.snum, sname, city
      order by s.snum
Q6. List names of all customers matched with the salespeople serving them.
   select c.snum, cname, sname
   from customers c, salespeople s
   where c.snum = s.snum
   order by snum
Q7. Count the orders of each of the salespeople and output the results in descending
order.
   select s.snum, sname, COUNT(onum) as 'No. of Orders'
   from salespeople s, orders o
   where s.snum = o.snum
   group by s.snum, sname
   order by [No. of Orders] desc
Q8. Match salespeople to customers according to what city they live in.
   select sname, cname, s.city
   from salespeople s,Customers c
   where s.city=c.city and s.snum=c.snum
Q9. Find all the customers in San Jose who have a rating above 200.
   select * from customers
   where city = 'San Jose' and rating > 200
Q10. List the names and commissions of all salespeople in London
   select snum as 'ID', sname as 'Name', comm as 'Commission', city as 'City'
   from salespeople
   where city = 'London'
Q11. List all the orders of Salesperson Motika from the orders table
   select sname 'Name', onum 'Order no.', amt 'Amount', odate 'Date'
   from orders o, salespeople s
   where s.snum = o.snum and sname = 'Motika'
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Q12. Find all customers who booked orders on October 3.
   select cname as 'Customers'
   from orders o, customers c
   where odate = '1990-10-03' and c.cnum = o.cnum
Q13. Give the sums of the amounts from the Orders table, grouped by date, eliminating
all those dates where the SUM was not at least 2000 above the maximum amount.
   select odate, sum(amt) as avg amt, max(amt) as max_amt
   from orders
   group by odate
   having sum(amt) > 2000
Q14. Select all orders that had amounts that were greater than at least one of the orders
from October 6.
   select onum, amt
   from orders
   where amt > any
         (select amt from orders where odate = '10/06/1990')
Q15. List all the largest orders for October 3, for each salesperson.
   select s.snum as 'ID', sname 'Name', MAX(amt) as 'Largest order'
   from orders o, salespeople s
   where s.snum = o.snum
   and odate = '10/03/1990'
   group by sname, s.snum
   order by ID
Q16. Find all customers located in cities where Serres has customers.
   select s.snum, cnum, s.sname, cname, c.city
   from customers c, salespeople s
   where s.snum = c.snum and sname = 'Serres'
Q17. Select all customers with a rating above 200.
   select * from customers
   where rating > 200
Q18. Find salespeople with customers located in their own cities.
   select s.snum, sname, cname, s.city, c.city
   from customers c, salespeople s
   where s.city = c.city and s.snum = c.snum
   order by snum
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Q19. Find salespeople whose name starts with P and fourth character is I
   select * from salespeople
   where sname like 'P 1'
Q20. Write a query that uses a sub query to obtain all orders for the customer named
Cisneros. Assume you do not know his customer number.
   select onum, cname, amt, odate
   from orders o, customers c
   where o.cnum = c.cnum and cname =
      (select cname
       from customers
       where cname = 'Cisneros')
Q21. Find the largest orders for Serres and Rifkin.
   select s.snum, s.sname, max(o.amt)
   from salespeople s, orders o
   where s.snum = o.snum and sname in ('Serres', 'Rifkin')
   group by s.snum, s.sname
Q22. Sort the salespeople table in the following order : snum, sname, commission, city.
   select snum, sname, comm, city
   from salespeople
   order by snum, sname, comm, city
Q23. Select all customers whose names fall in between A and G alphabetical range
   select * from customers
   where substring(cname, 1, 1) between 'A' and 'G'
   order by cname
Q24. Write a query that totals the orders for each day and places the results in
descending order.
   select odate, COUNT(onum) as Order Count
   from orders
   group by odate
   order by Order Count desc
Q25. Write a select command that produces the rating followed by the name of each
customer in San Jose.
   select rating, cname, city
   from customers
   where city = 'San Jose'
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Q26. Find all orders with above average amounts for their customers.
   select AVG(amt) as avg_amt from orders;
   select amt, cname
   from Orders o, Customers c
   where c.cnum=o.cnum and amt >
      (select AVG (amt)
       from orders)
   group by cname, amt
   select amt,cname
   from Orders o, Customers c
   where c.cnum=o.cnum
   group by cname, amt
   having amt >
      (select AVG (amt)
       from Orders o)
Q27. Write a query that selects the highest rating in each city.
   select city, MAX(rating) as Ratings
   from customers
   group by city
   order by Ratings
Q28. Find all salespeople that are located in either Barcelona or London.
   select * from salespeople
   where city in ('Barcelona', 'London')
Q29. Write a query that joins the customer table to itself to find all pairs or customers
served by a single salesperson.
select a.snum, a.cnum, a.cname
from customers a, customers b
where a.snum = b.snum and a.cnum=b.cnum
order by a.snum
Q30. Write a query that will give you all orders for more than $1000.00
   select * from orders
   where amt > 1000
Q31. Write a query that lists each order number followed by the name of customer who made
that order.
   select onum, cname
   from orders, customers
   where orders.cnum = customers.cnum
   order by onum
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Q32. Write two queries that will produce all orders taken on October 3 or October 4. select \* from orders where odate = '10-03-1990' order by onum select \* from orders where odate = '10-04-1990' order by onum Q33. Find all rows from the customer's table for which the sales person number is 1001. select \* from customers where snum = 1001 Q34. Find all salespeople name and commission. select sname, comm from salespeople order by sname Q35. Find all sales people for whom there are customers that follow them in alphabetical order. select sname, cname from salespeople, customers where salespeople.snum = customers.snum order by sname, cname Q36. Write a query that produces the names and ratings of all customers who have average orders. select cname, rating, COUNT(amt) as amnt, cast(AVG(amt) as decimal (10,2)) as avgamt from customers c, orders o where c.cnum = o.cnum group by cname, rating having count(amt) > 1 Q37. Find the sum of all Amounts from the orders table. select SUM(amt) as total from orders Q38. Write a query that gives the names of both the salesperson and the customer for each order after the order number. select onum, sname, cname, o.snum from orders o, salespeople s, customers c where c.cnum = o.cnum and s.snum = o.snum and s.snum = c.snum and c.snum = o.snum order by onum

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Q39. List the commission of all salespeople services customers in London.
   select comm, sname, cname
   from salespeople s, customers c
   where c.city='London' and s.snum = c.snum
Q40. Find all orders attributed to sales people who live in London.
   select sname, city, onum, s.snum
   from salespeople s, orders o
   where s.snum = o.snum and city = 'London'
Q41. Find all salespeople who have customers with more than one current order.
   select sname, COUNT (onum) as qnty
   from salespeople s,Customers c,Orders o
   where c.snum=s.snum and o.snum=c.snum
   group by sname
   having count(onum)>1
Q42. Find the average commission for salespeople in London.
   select city, (cast(AVG(comm) as decimal(10,2))) as commission
   from salespeople
   where city = 'London'
   group by city
Q43. Find all orders credited to the same salesperson who services Hoffman (cnum 2001).
   select s.snum, sname, onum, o.cnum
   from customers c, salespeople s, orders o
   where cname = 'Hoffman' and c.snum = s.snum and o.snum = s.snum
Q44. Find all salespeople whose commission is in between 0.10 and 0.12 (both inclusive).
   select * from salespeople
   where comm >=10 and comm <=12
Q45. Write a query that will give you the names and cities of all salespeople in London
with a commission above 0.10.
   select * from salespeople
   where comm > 10
Q46. Write a query that selects each customer's smallest order.
   select c.cnum, cname, MIN(amt) as small
   from orders o, customers c
   where o.cnum = c.cnum
   group by c.cnum, cname
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Q47. Write a query that selects the first customer in alphabetical order whose name
begins with G.
   select top 1 cnum, cname, city
   from customers
   where cname like 'G%'
Q48. Write a query that counts the number of different non NULL city values in the
customers stable.
   select COUNT (distinct city) as city count
   from Customers
   where city is not null
Q49. Find the average amount from the Orders Table.
   select (cast(AVG(amt) as decimal(10,2))) as avg amount
   from orders
Q50. Find all customers who are not located in San Jose and whose rating is above 200.
   select cname, city, rating
   from customers
   where city != 'San Jose' and rating > 200
Q51. Give a simpler way to write this query. SELECT snum, sname, city, comm. FROM salespeople
WHERE (comm. >= 0.12 OR comm. < 0.14)
   select snum, sname, city, comm
   from salespeople
Q52. Which salesperson has earned the maximum commission?
   select snum, sname, comm
   from salespeople
   where comm =
      (select MAX (comm)
       from salespeople)
Q53. List all customers in descending order of customer rating.
   select cnum, cname, rating
   from customers
   order by rating desc, cname
Q54. On which days has Hoffman placed orders?
   select o.cnum, cname, odate
   from orders o, customers c
   where cname = 'Hoffman' and c.cnum = o. cnum
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Q55. Which salesmen have no orders between 10/03/1990 and 10/05/1990?
    select s.snum, sname, odate
    from orders o, salespeople s
    where s.snum = o.snum and (odate not between '10-03-1990' and '10-05-1990')

Q56. Who is the most successful sales person?

select sname, amt
    from orders o, salespeople s
    where o.snum = s.snum
    group by sname, amt
    having amt =
        (select MAX(amt) from orders)

select sname, amt
    from orders o, salespeople s
    where o.snum = s.snum and amt =
        (select max(amt) from orders)
```