**TABLE SALESPEOPLE**

**SNUM SNAME CITY COMM**

1001 Peel London .12

1002 Serres San Jose .13

1004 Motika London .11

1007 Rafkin Barcelona .15

1003 Axelrod New york .1

**TABLE CUST**

**CNUM CNAME CITY RATING SNUM**

2001 Hoffman London 100 1001

2002 Giovanne Rome 200 1003

2003 Liu San Jose 300 1002

2004 Grass Brelin 100 1002

2006 Clemens London 300 1007

2007 Pereira Rome 100 1004

**ORDERS**

**ONUM AMT ODATE CNUM SNUM**

3001 18.69 03-OCT-94 2008 1007

3003 767.19 03-OCT-94 2001 1001

3002 1900.10 03-OCT-94 2007 1004

3005 5160.45 03-OCT-94 2003 1002

3006 1098.16 04-OCT-94 2008 1007

3009 1713.23 04-OCT-94 2002 1003

3007 75.75 05-OCT-94 2004 1002

3008 4723.00 05-OCT-94 2006 1001

3010 1309.95 06-OCT-94 2004 1002

3011 9891.88 06-OCT-94 2006 1001

**QUERIES**

1. **Display snum,sname,city and comm of all salespeople.**

Select snum, sname, city, comm

from salespeople;

1. **Display all snum without duplicates from all orders**.

Select distinct snum

from orders;

1. **Display names and commissions of all salespeople in london.**

Select sname,comm

from salespeople

where city = ‘London’;

1. **All customers with rating of 100.**

Select cname

from cust

where rating = 100;

1. **Produce orderno, amount and date form all rows in the order table.**

Select ordno, amt, odate

from orders;

1. **All customers in San Jose, who have rating more than 200.**

Select cname

from cust

where rating > 200;

1. **All customers who were either located in San Jose or had a rating above 200.**

Select cname

from cust

where city = ‘San Jose’ or

rating > 200;

1. **All orders for more than $1000.**

Select \*

from orders

where amt > 1000;

1. **Names and citires of all salespeople in london with commission above 0.10.**

Select sname, city

from salepeople

where comm > 0.10 and

city = ‘London’;

1. **All customers excluding those with rating <= 100 unless they are located in Rome.**

Select cname

from cust

where rating <= 100 or

city = ‘Rome’;

1. **All salespeople either in Barcelona or in london.**

Select sname, city

from salespeople

where city in (‘Barcelona’,’London’);

1. **All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded)**

Select sname, comm

from salespeople

where comm > 0.10 and comm < 0.12;

1. **All customers with NULL values in city column.**

Select cname

from cust

where city is null;

1. **All orders taken on Oct 3Rd and Oct 4th 1994.**

Select \*

from orders

where odate in (‘03-OCT-94’,’04-OCT-94’);

1. **All customers serviced by peel or Motika.**

Select cname

from cust, orders

where orders.cnum = cust.cnum and

orders.snum in ( select snum

from salespeople

where sname in 'Peel','Motika'));

1. **All customers whose names begin with a letter from A to B.**

Select cname

from cust

where cname like ‘A%’ or

cname like ‘B%’;

1. **All orders except those with 0 or NULL value in amt field.**

Select onum

from orders

where amt != 0 or

amt is not null;

1. **Count the number of salespeople currently listing orders in the order table.**

Select count(distinct snum)

from orders;

1. **Largest order taken by each salesperson, datewise.**

Select odate, snum, max(amt)

from orders

group by odate, snum

order by odate,snum;

1. **Largest order taken by each salesperson with order value more than $3000.**

Select odate, snum, max(amt)

from orders

where amt > 3000

group by odate, snum

order by odate,snum;

1. **Which day had the hightest total amount ordered.**

Select odate, amt, snum, cnum

from orders

where amt = (select max(amt)

from orders)

1. **Count all orders for Oct 3rd.**

Select count(\*)

from orders

where odate = ‘03-OCT-94’;

1. **Count the number of different non NULL city values in customers table.**

Select count(distinct city)

from cust;

1. **Select each customer’s smallest order.**

Select cnum, min(amt)

from orders

group by cnum;

1. **First customer in alphabetical order whose name begins with G.**

Select min(cname)

from cust

where cname like ‘G%’;

1. **Get the output like “ For dd/mm/yy there are \_\_\_ orders.**

Select 'For ' || to\_char(odate,'dd/mm/yy') || ' there are '||

count(\*) || ' Orders'

from orders

group by odate;

1. **Assume that each salesperson has a 12% commission. Produce order no., salesperson no., and amount of salesperson’s commission for that order.**

Select onum, snum, amt, amt \* 0.12

from orders

order by snum;

1. **Find highest rating in each city. Put the output in this form. For the city (city), the highest rating is : (rating).**

Select 'For the city (' || city || '), the highest rating is : (' ||

max(rating) || ')'

from cust

group by city;

1. **Display the totals of orders for each day and place the results in descending order.**

Select odate, count(onum)

from orders

group by odate

order by count(onum);

1. **All combinations of salespeople and customers who shared a city. (ie same city).**

Select sname, cname

from salespeople, cust

where salespeople.city = cust.city;

1. **Name of all customers matched with the salespeople serving them.**

Select cname, sname

from cust, salespeople

where cust.snum = salespeople.snum;

1. **List each order number followed by the name of the customer who made the order.**

Select onum, cname

from orders, cust

where orders.cnum = cust.cnum;

1. **Names of salesperson and customer for each order after the order number.**

Select onum, sname, cname

from orders, cust, salespeople

where orders.cnum = cust.cnum and

orders.snum = salespeople.snum;

1. **Produce all customer serviced by salespeople with a commission above 12%.**

Select cname, sname, comm

from cust, salespeople

where comm > 0.12 and

cust.snum = salespeople.snum;

1. **Calculate the amount of the salesperson’s commission on each order with a rating above 100.**

Select sname, amt \* comm

from orders, cust, salespeople

where rating > 100 and

salespeople.snum = cust.snum and

salespeople.snum = orders.snum and

cust.cnum = orders.cnum

1. **Find all pairs of customers having the same rating.**

Select a.cname, b.cname,a.rating

from cust a, cust b

where a.rating = b.rating and

a.cnum != b.cnum

1. **Find all pairs of customers having the same rating, each pair coming once only.**

Select a.cname, b.cname,a.rating

from cust a, cust b

where a.rating = b.rating and

a.cnum != b.cnum and

a.cnum < b.cnum;

1. **Policy is to assign three salesperson to each customers. Display all such combinations.**

Select cname, sname

from salespeople, cust

where sname in ( select sname

from salespeople

where rownum <= 3)

order by cname;

1. **Display all customers located in cities where salesman serres has customer.**

Select cname

from cust

where city = ( select city

from cust, salespeople

where cust.snum = salespeople.snum and sname = 'Serres');

Select cname

from cust

where city in ( select city

from cust, orders

where cust.cnum = orders.cnum and

orders.snum in ( select snum

from salespeople

where sname = 'Serres'));

1. **Find all pairs of customers served by single salesperson.**

Select cname from cust

where snum in (select snum from cust

group by snum

having count(snum) > 1);

Select distinct a.cname

from cust a ,cust b

where a.snum = b.snum and a.rowid != b.rowid;

1. **Produce all pairs of salespeople which are living in the same city. Exclude combinations of salespeople with themselves as well as duplicates with the order reversed.**

Select a.sname, b.sname

from salespeople a, salespeople b

where a.snum > b.snum and

a.city = b.city;

1. **Produce all pairs of orders by given customer, names that customers and eliminates duplicates.**

Select c.cname, a.onum, b.onum

from orders a, orders b, cust c

where a.cnum = b.cnum and

a.onum > b.onum and

c.cnum = a.cnum;

1. **Produce names and cities of all customers with the same rating as Hoffman.**

Select cname, city

from cust

where rating = (select rating

from cust

where cname = 'Hoffman')

and cname != 'Hoffman';

1. **Extract all the orders of Motika.**

Select Onum

from orders

where snum = ( select snum

from salespeople

where sname = ‘Motika’);

1. **All orders credited to the same salesperson who services Hoffman.**

Select onum, sname, cname, amt

from orders a, salespeople b, cust c

where a.snum = b.snum and

a.cnum = c.cnum and

a.snum = ( select snum

from orders

where cnum = ( select cnum

from cust

where cname = 'Hoffman'));

1. **All orders that are greater than the average for Oct 4.**

Select \*

from orders

where amt > ( select avg(amt)

from orders

where odate = '03-OCT-94');

1. **Find average commission of salespeople in london.**

Select avg(comm)

from salespeople

where city = ‘London’;

1. **Find all orders attributed to salespeople servicing customers in london.**

Select snum, cnum

from orders

where cnum in (select cnum

from cust

where city = 'London');

1. **Extract commissions of all salespeople servicing customers in London.**

Select comm

from salespeople

where snum in (select snum

from cust

where city = ‘London’);

1. **Find all customers whose cnum is 1000 above the snum of serres.**

Select cnum, cname from cust

where cnum > ( select snum+1000

from salespeople

where sname = 'Serres');

1. **Count the customers with rating above San Jose’s average.**

Select cnum, rating

from cust

where rating > ( select avg(rating)

from cust

where city = 'San Jose');