SQL CODES:

Select onum, odate

from orders

where cnum = ( select cnum from cust where cname = 'Cisnerous')

Select max(b.cname), max(b.rating), a.cnum

from orders a, cust b

where a.cnum = b.cnum group by a.cnum having count(a.cnum) > ( select avg(count(cnum)) from orders group by cnum);

Select snum,sum(amt)

from orders

group by snum

having sum(amt) > ( select max(amt)

from orders);

Select cname

from cust a, orders b

where a.cnum = b.cnum and

odate = '03-10-1994';

Select sname, snum

from salespeople

where snum in ( select snum from cust group by snum having count(snum) > 1 );

Select onum, a.cnum, a.snum, b.snum

from orders a, cust b

where a.cnum = b.cnum and

a.snum != b.snum;

select onum, cnum, amt

from orders a

where amt > ( select avg(amt)

from orders b

where a.cnum = b.cnum

group by cnum);

Select odate, sum(amt)

from orders a

group by odate

having sum(amt) > ( select max(amt)

from orders b

where a.odate = b.odate

group by odate);

Select a.cnum, a.cname

from cust a

where a.rating = ( select max(rating)

from cust b

where a.city = b.city);

Select distinct cname

from cust a, salespeople b

where a.city = b.city and

a.snum != b.snum;

Select cname

from cust

where cname in ( select cname

from cust a, salespeople b

where a.city = b.city and a.snum != b.snum );

Select \* from cust

where 2 < (select count(\*)

from cust

where city = 'San Jose');

Select snum

from cust

group by snum

having count(\*) > 1;

Select snum, sname, city

from salespeople

where snum in ( select snum

from cust

group by snum

having count(\*) > 1);

Select snum

from cust

group by snum

having count(\*) = 1;

Select snum, count(snum)

from orders

group by snum

having count(snum) > 1;

Select a.snum

from salespeople a

where exists ( select b.snum

from cust b

where b.rating = 300 and

a.snum = b.snum)

Select a.snum

from salespeople a, cust b

where b.rating = 300 and

a.snum = b.snum;

Select snum, sname

from salespeople

where exists ( select cnum from cust where salespeople.city = cust.city and salespeople.snum != cust.snum);

Select a.cnum, max(c.cname)

from orders a, cust c

where a.cnum = c.cnum

group by a.cnum,a.snum

having count() < ( select count()from orders b where a.snum = b.snum)

Select sname

from salespeople

where snum in ( select snum from cust where salespeople.city = cust.city and salespeople.snum = cust.snum);

Select sname

from salespeople

where snum = any ( select snum from cust where salespeople.city = cust.city and salespeople.snum = cust.snum);

Select sname

from salespeople

where sname < any ( select cname from cust where salespeople.snum = cust.snum);

Select sname

from salespeople

where exists ( select cname from cust where salespeople.snum = cust.snum and salespeople.sname < cust.cname);

Select a.cname

from cust a

where city = 'Rome' and

rating > ( select max(rating)

from cust

where city != 'Rome');

Select onum, amt

from orders

where odate != '06-oct-94' and

amt > ( select min(amt)

from orders

where odate = '06-oct-94');

Select onum, amt

from orders

where amt < any ( select amt

from orders, cust

where city = 'San Jose' and

orders.cnum = cust.cnum);

Select onum, amt

from orders

where amt < ( select max(amt)

from orders, cust

where city = 'San Jose' and

orders.cnum = cust.cnum);

Select \* from cust

where rating > any (select rating from cust

where city = 'Paris');

Select \*

from cust a

where not exists ( select b.rating from cust b

where b.city != 'Paris' and

b.rating > a.rating);

Select cname, sname

from cust, salespeople

where rating >= any ( select rating from cust where snum = (select snum from salespeople where sname = 'Serres'))

and sname != 'Serres'

and salespeople . snum = cust.snum;

Select sname

from salespeople

where snum in ( select snum

from cust

where salespeople.city != cust.city and

salespeople.snum = cust.snum);

Select sname

from salespeople

where snum = any ( select snum

from cust

where salespeople.city != cust.city and

salespeople.snum = cust.snum);

Select onum, amt

from orders

where amt > any ( select amt

from orders, cust

where city = 'London' and

orders.cnum = cust.cnum);

Select sname, cname

from cust, salespeople

where cust.city = 'London' and

salespeople.city = 'London' and

cust.snum = salespeople.snum;

Select snum, city, 'Customer Present'

from salespeople a

where exists ( select snum from cust

where a.snum = cust.snum and

a.city = cust.city)

UNION

select snum, city, 'Customer Not Present'

from salespeople a

where exists ( select snum from cust c

where a.snum = c.snum and

a.city != c.city and

c.snum not in ( select snum

from cust

where a.snum = cust.snum and

a.city = cust.city));

Select cname, city, rating, 'Higher Rating'

from cust

where rating >= 200

UNION

Select cname, city, rating, 'Lower Rating'

from cust

where rating < 200;

Select 'Customer Number ' | cnum "Code ",count(\*)

from orders

group by cnum

having count(\*) > 1

UNION

select 'Salesperson Number '|snum,count(\*)

from orders

group by snum

having count(\*) > 1;

Select 'Customer Number ' | cnum "Code "

from cust

where city = 'San Jose'

UNION

select 'Salesperson Number '|snum

from salespeople

where city = 'San Jose'

UNION ALL

select 'Order Number '| onum

from Orders

where odate = '03-OCT-94';

Select snum, sname

from salespeople

where snum in ( select snum

from cust

where cust.snum = salespeople.snum and

cust.city = 'London')

and city = 'London';

Select snum, sname

from salespeople

where snum in ( select snum from cust where cust.snum = salespeople.snum and cust.city = 'London') and city = 'London';

Select sname, cname

from cust, salespeople

where cust.snum = salespeople.snum;

Select sname, cname

from cust, salespeople

where cust.snum = salespeople.snum

UNION

select distinct sname, 'No Customer'

from cust, salespeople

where 0 = (select count(\*) from cust

where cust.snum = salespeople.snum);

CREATING TABLES:

CREATE TABLE SALESPEOPLE(SNUM numeric(5) PRIMARY KEY, SNAME CHAR(10), CITY CHAR(20), COMM DECIMAL(8,3));

INSERT INTO SALESPEOPLE VALUES (1001, 'Peel', 'London',0.12);

INSERT INTO SALESPEOPLE VALUES(1002, 'Serres','San Jose',0.13);

INSERT INTO SALESPEOPLE VALUES(1004, 'motika','london',0.11);

INSERT INTO SALESPEOPLE VALUES(1007, 'rafkin','barcelona',0.15);

INSERT INTO SALESPEOPLE VALUES(1003, 'axelrod','new york',0.1);

CREATE TABLE CUST(CNUM NUMERIC(5) PRIMARY KEY, CNAME CHAR(20), CITY CHAR(20), RATING NUMERIC(3),SNUM NUMERIC(4));

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', 'brelin',100,1002);

INSERT INTO CUST VALUES (2006, 'clemens', 'london',300,1007);

INSERT INTO CUST VALUES (2007, 'pereia', 'rome',100,1004);

CREATE TABLE ORDERS(ONUM NUMERIC(5) PRIMARY KEY, AMT MONEY, ODATE Datetime, CNUM NUMERIC(4),SNUM NUMERIC(4));

INSERT INTO ORDERS VALUES (3001,18.69,'03-10-1994',2008,1007);

INSERT INTO ORDERS VALUES (3003,767.19,'03-10-1994',2001,1001);

INSERT INTO ORDERS VALUES (3002,1900.10,'03-10-1994',2007,1004);

INSERT INTO ORDERS VALUES(3005,5160.45,'03-10-1994',2003,1002);

INSERT INTO ORDERS VALUES (3006,1098.16,'04-10-1994',2008,1007);

INSERT INTO ORDERS VALUES (3009,1713.23,'04-10-1994',2002,1003);

INSERT INTO ORDERS VALUES (3007,75.75,'05-10-1994',2006,1002);

INSERT INTO ORDERS VALUES (3008,4723.00,'05-10-1994',2006,1001);

INSERT INTO ORDERS VALUES (3010,1309.95,'06-10-1994',2004,1002);

INSERT INTO ORDERS VALUES (3011,9891.88,'06-10-1994',2006,1001);

Select snum, sname, city, comm from salespeople;

Select distinct snum from orders;

Select sname,comm from salespeople where city = 'London';

Select cname from cust where rating = 100;

Select onum, amt, odate from orders;

Select cname from cust where rating > 200;

Select cname from cust where city = 'San Jose' or rating > 200;

Select \* from orders where amt > 1000;

Select sname, city from salespeople where comm > 0.10 and city = 'London';

Select cname from cust where rating <= 100 or city = 'Rome';

Select sname, city from salespeople where city in ('Barcelona','London');

Select sname, comm from salespeople where comm > 0.10 and comm < 0.12;

Select cname from cust where city is null;

Select \* from orders where odate in ('03-OCT-94','04-OCT-94');

Select onum from orders where amt != 0 or amt is not null;

Select count(distinct snum) from orders;

Select odate, snum, max(amt) from orders group by odate, snum order by odate,snum;

Select odate, snum, max(amt) from orders where amt > 3000 group by odate, snum order by odate,snum;

Select odate, amt, snum, cnum from orders where amt = (select max(amt) from orders)

Select count(\*) from orders where odate = '03-OCT-94';

Select count(distinct city) from cust;

Select cnum, min(amt) from orders group by cnum;

Select min(cname) from cust where cname like 'G%';

Select convert(varchar,getdate(),3) 'Orders' from orders group by odate;

Select onum, snum, amt, amt \* 0.12 from orders order by snum;

Select 'For the city (' | city | '), the highest rating is : (' | max(rating) | ')' from cust group by city;

Select odate, count(onum) from orders group by odate order by count(onum);

Select sname, cname from salespeople, cust where salespeople.city = cust.city;

Select cname, sname from cust, salespeople where cust.snum = salespeople.snum

Select onum, cname from orders, cust where orders.cnum = cust.cnum;

Select onum, sname, cname from orders, cust, salespeople where orders.cnum = cust.cnum and orders.snum = salespeople.snum;

Select cname, sname, comm from cust, salespeople where comm > 0.12 and cust.snum = salespeople.snum;

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

Select a.cname, b.cname,a.rating from cust a, cust b where a.rating = b.rating and a.cnum != b.cnum

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;

Select cname, sname from salespeople, cust where sname in ( select sname from salespeople where snum <= 3) order by cname;

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'));

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 ;

Select cname, city from cust where rating = (select rating from cust where cname = 'Hoffman') and cname != 'Hoffman';

Select Onum from orders where snum = ( select snum from salespeople where sname = 'Motika');

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'));

Select \* from orders where amt > ( select avg(amt) from orders where odate = '03-OCT-94');

Select avg(comm) from salespeople where city = 'London';

Select snum, cnum from orders where cnum in (select cnum from cust where city = 'London');

Select comm from salespeople where snum in (select snum from cust where city = 'London');

Select cnum, cname from cust where cnum > ( select snum+1000 from salespeople where sname = 'Serres');

Select cnum, rating from cust where rating > ( select avg(rating) from cust where city = 'San Jose');