**Mysql project**

**1 ques:**

mysql> describe salespeople;

**2 ques:**

mysql> select \* from customer where rating = 100;

**3 ques:**

mysql> select \* from customer where city is null;

**4 ques:**

mysql> select customer.cnum, salespeople.snum, salespeople.sname, orders.odate, max(orders.amt) innerjoin from customer, salespeople, orders

-> where orders.cnum = customer.cnum

-> and customer.snum = salespeople.snum

-> group by orders.odate, orders.cnum;

select customer.cnum, salespeople.snum, salespeople.sname, orders.odate, max(orders.amt) innerjoin from customer, salespeople, orders

-> where orders.cnum = customer.cnum

-> and customer.snum = salespeople.snum

-> group by orders.odate, orders.cnum, salespeople.snum;

mysql> select customer.cnum, salespeople.snum, salespeople.sname, orders.odate, max(orders.amt) innerjoin from customer, salespeople, orders

-> where orders.cnum = customer.cnum

-> and customer.snum = salespeople.snum

-> group by orders.odate, orders.cnum, salespeople.sname;

**5 ques:**

mysql> select \* from orders order by cnum desc;

**6 ques:**

mysql> select distinct(c.sname) from orders a, customer b, salespeople c where a.cnum = b.cnum and b.snum = c.snum;

mysql> select c.sname from orders a, customer b, salespeople c where a.cnum = b.cnum and b.snum = c.snum;

**7 ques:**

mysql> select c.sname, b.cname from customer b, salespeople c where b.snum = c.snum;

**8 ques:**

mysql> select a.snum, a.sname, count(b.snum) as kr from salespeople a, customer b where a.snum = b.snum group by snum having kr > 1;

**9 ques:**

mysql> select count(a.onum) as 'quant', b.sname, b.snum from orders a, salespeople b, customer c where a.cnum = c.cnum and

-> b.snum = c.snum group by b.snum order by quant desc;

**10 ques:**

mysql> select \* from customer where (select count(city) as sim from customer where city = 'San Jose') > 1;

**11 ques:**

mysql> select a.sname, b.cname, a.city from salespeople a, customer b where a.city = b.city;

**12 ques:**

mysql> select a.sname, max(b.amt), b.odate from salespeople a, orders b, customer c where a.snum = c.snum and c.cnum = b.cnum group by a.sname;

**13 ques:**

mysql> select cname from customer where city = 'San Jose' and rating > 200;

mysql> select cname, rating, city from customer where city = 'San Jose' and rating > 200;

**14 ques:**

mysql> select sname, com from salespeople where city = 'London';

**15 ques:**

mysql> select a.onum,b.snum,c.sname from orders a, customer b, salespeople c where a.cnum = b.cnum and b.snum = c.snum and c.sname = 'Motika';

**16 ques:**

mysql> select a.cname, b.odate from customer a, orders b where a.cnum = b.cnum and b.odate = '1996-10-03';

**17 ques:**

mysql> select sum(amt) as total, odate from orders group by odate having (total - max(amt)) > 2000;

mysql> select sum(amt) as total, odate, max(amt) from orders group by odate having (total - max(amt)) > 2000;

18 ques:

mysql> select onum,amt from orders where (select min(amt) from orders where odate = '1996-10-06') < amt and odate != '1996-10-06';

19 ques:

mysql> select sname, a.snum from salespeople a, customer b where exists(select snum from customer where rating = 300 and a.snum = b.snum) and a.snum = b.snum and rating = 300;

20 ques:

mysql> select a.cname, b.cname, a.rating from customer a, customer b where a.rating = b.rating and a.cnum != b.cnum and a.cnum < b.cnum order by rating;

21 ques:

mysql> select \* from customer where cnum >(select (snum+1000) from salespeople where sname = 'Serres');

22 ques:

mysql> select sname, (com \* 100) as 'comm %' from salespeople;

23 ques:

mysql> select a.sname, b.odate, max(amt) from salespeople a, orders b, customer c where a.snum = c.snum and b.cnum = c.cnum group by a.sname, b.odate having max(amt) > 3000;

24 ques:

mysql> select a.sname, max(amt), odate from salespeople a, orders b, customer c where a.snum = c.snum and c.cnum = b.cnum and odate = '1996-10-03'group by a.sname;

25 ques:

mysql> select a.cname, a.city, b.sname from customer a, salespeople b where a.snum = 1002 and a.snum = b.snum;

26 ques:

mysql> select cname, rating from customer where rating > 200;

27 ques:

mysql> select count(distinct a.snum) from salespeople a, orders b, customer c where a.snum = c.snum and b.cnum = c.cnum and a.snum in (select snum from customer where cnum in (select distinct cnum from orders));

28 ques:

mysql> select a.cname, b.com from customer a, salespeople b where a.snum = b.snum and b.com > 0.12;

29 ques:

mysql> select sname, snum from salespeople where snum in (select a.snum from customer a, customer b where a.cnum != b.cnum and a.snum = b.snum and a.cnum < b.cnum);

30 ques:

mysql> select sname, cname, a.city from salespeople a, customer b where a.city = b.city;

mysql> select sname, cname, a.city from salespeople a, customer b where a.snum = b.snum and a.city = b.city;

31 ques:

mysql> select lower(sname) from salespeople where sname like 'P\_\_l%';

32 ques:

mysql> select onum, amt from orders where cnum = (select cnum from customer where cname = 'Cisneros');

33 ques:

mysql> select max(a.amt), b.snum, c.sname from orders a, customer b, salespeople c where (b.snum = c.snum and b.cnum = a.cnum and (c.sname = 'Rifkin' or c.sname = 'Serres')) group by b.snum;

34 ques:

mysql> select snum, sname, com, city from salespeople;

35 ques:

mysql> select cname from customer where cname between 'A' and 'G' ;

36 ques:

mysql> select a.cname, a.city, a.rating, a.snum, com, sname, odate, onum, a.cnum from customer a, salespeople b, orders c where a.snum = b.snum and a.cnum = c.cnum;

mysql> select \* from salespeople a, customer b, orders c;

37 ques:

mysql> select \* from orders where amt > (select avg(amt) from orders where odate = '1996-10-04');

38 ques:

mysql> select a.cname, a.city, a.rating from customer a,(select city, max(rating) as maxrating from customer group by city) b where a.rating = b.maxrating and a.city = b.city;

mysql> select a.cname, a.city, a.rating, a.cnum from customer a,(select city, max(rating) as maxrating from customer group by city) b where a.rating = b.maxrating and a.city = b.city;

39 ques:

mysql> select sum(amt) as total, odate from orders group by odate order by total desc;

40 ques:

mysql> select cname, rating from customer where city = 'San Jose';

41 ques:

mysql> select \* from orders where amt >(select max(amt) from orders where cnum in (select cnum from customer where city = 'San Jose'));

42 ques:

mysql> select \* from orders where cnum in (select cnum from orders where amt > (select avg(amt) from orders));

43 ques:

mysql> select city, max(rating) from customer group by city;

44 ques:

mysql> select a.com, b.amt, c.rating, (a.com \* b.amt) as com\_amt from salespeople a, orders b, customer c where a.snum = c.snum and b.cnum = c.cnum and c.rating > 100;

45 ques:

mysql> select count(cnum) from customer where rating > (select avg(rating) from customer where city = 'San Jose');

46 ques:

mysql> select a.sname, b.sname from salespeople a, salespeople b order by a.sname desc;

47 ques:

mysql> select snum, sname,city from salespeople where city = 'London' or city = 'Barcelona';

48 ques:

mysql> select sname, snum from salespeople where snum in (select snum from customer group by snum having count(snum) = 1);

49 ques:

mysql> select a.cname, b.cname from customer a, customer b where a.cnum in (select cnum from customer group by snum having count(snum) = 1) and b.cnum in (select cnum from customer group by snum having count(snum) = 1) and a.cnum != b.cnum and a.cnum < b.cnum;

50 ques:

mysql> select \* from orders where amt > 1000.00;

51 ques:

mysql> select onum, cname from orders a, customer b where a.cnum = b.cnum;

52 ques:

mysql> select a.snum, cname, a.city from salespeople a, customer b where a.city = b.city and a.snum != b.snum;

mysql> select sname,cname,a.city from salespeople a, customer b where b.snum in(select b.snum from customer b, salespeople a where a.city = b.city and a.snum != b.snum) and a.snum != b.snum and a.city = b.city;

53 ques:

mysql> select \* from customer where rating = any(select rating from salespeople a, customer b where a.sname = 'Serres' and a.snum = b.snum);

54 ques:

mysql> select \* from orders where onum =any (select onum from orders where odate = '1996-10-03' or odate = '1996-10-04');

mysql> select onum,odate from orders where odate = '1996-10-03' or odate = '1996-10-04';

mysql> select \* from orders where onum in (select onum from orders where odate = '1996-10-03' or odate = '1996-10-04');

55 ques:

mysql> select a.onum, b.onum, c.cname from orders a, orders b, customer c where a.cnum = b.cnum and a.onum != b.onum and a.onum < b.onum and a.cnum = c.cnum and b.cnum = c.cnum;

56 ques:

mysql> select \* from customer where rating > (select max(rating) from customer where city = 'Rome');

mysql> select \* from customer where rating > any (select rating from customer where city = 'Rome');

57 ques:

mysql> select \* from customer where cnum in (select cnum from customer where rating > 100 or city = 'Rome');

mysql> select \* from customer where cnum = any (select cnum from customer where rating > 100 or city = 'Rome');

58 ques:

mysql> select \* from customer where snum = 1001;

59 ques:

mysql> select a.snum, a.sname, sum(amt) as total from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum group by a.sname having total > (select max(amt) from orders);

60 ques:

mysql> create table orders1(select \* from orders);

mysql> update orders1 set amt = 0000.00;

61 ques:

mysql> select sname, cname, rating from salespeople a, customer b where sname < cname and rating < 200;

62 ques:

mysql> select sname, com\*amt from salespeople a, customer b, orders c where a.snum =b.snum and b.cnum = c.cnum;

63 ques:

mysql> select cname, city from customer where rating = (select rating from customer where cnum = (select cnum from customer where cname = 'Hofman'));

mysql> select cname, city from customer where rating = (select rating from customer where cnum = (select cnum from customer where cname = 'Hofman')) and cname != 'Hofman';

64 ques:

mysql> select sname, cname from salespeople a, customer b where a.snum = b.snum and sname < cname;

65 ques:

mysql> select cname, rating from customer where cnum in (select cnum from orders where amt > (select avg(amt) from orders));

66 ques:

mysql> select sum(amt) from orders;

67 ques:

mysql> select onum, amt, odate from orders;

68 ques:

mysql> select count(rating) from customer where rating is not null;

69 ques:

mysql> select onum, sname, cname from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum;

70 ques:

mysql> select sname, com from salespeople where snum in (select snum from customer where city = 'London');

71 ques:

mysql> select sname from salespeople where snum = any(select a.snum from salespeople a, customer b where a.snum = b.snum and a.city != b.city);

72 ques:

mysql> select sname, cname, a.city, b.city from salespeople a, customer b where exists(select sname from salespeople a, customer b where a.snum != b.snum) and a.snum != b.snum and a.city = b.city;

73 ques:

mysql> select cname,sname from customer a, salespeople b where a.snum in (select snum from salespeople where sname = 'Peel' or sname = 'Motika') and a.snum = b.snum;

74 ques:

mysql> select count(distinct(a.snum)), c.odate from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum group by odate;

75 ques:

mysql> select onum, odate from orders where cnum in (select cnum from customer where snum in (select snum from salespeople where city = 'London'));

mysql> select onum, odate, cnum from orders where cnum in (select cnum from customer where snum in (select snum from salespeople where city = 'London'));

76 ques:

mysql> select onum,a.cnum,cname from orders a, customer b where a.cnum in (select cnum from customer a, salespeople b where a.snum = b.snum and a.city != b.city) and a.cnum = b.cnum;

77 ques:

mysql> select sname from salespeople a, customer b where b.cnum in (select cnum from orders group by cnum having count(cnum) > 1) and a.snum = b.snum;

78 ques:

mysql> select sname,cname from salespeople a, customer b where a.snum in (select snum from customer group by snum having count(snum)>1) and a.snum = b.snum and b.cnum in (select cnum from orders);

mysql> select sname,cname,b.cnum,a.snum from salespeople a, customer b where a.snum in (select snum from customer group by snum having count(snum)>1) and a.snum = b.snum and b.cnum in (select cnum from orders);

79 ques:

mysql> select cname from customer where cname like 'C%';

80 ques:

mysql> select concat('For the city : ',city) as city, concat('The max rating is ', max(rating)) as rating from customer group by city;

81 ques:

mysql> select distinct(snum), sname from salespeople where snum in(select snum from customer where cnum in (select cnum from orders));

82 ques:

mysql> select rating, cname, cnum from customer order by rating desc;

83 ques:

mysql> select avg(com) from salespeople group by city having city = 'London';

84 ques:

mysql> select onum, sname, b.snum from orders a, customer b, salespeople c where a.cnum in (select cnum from customer b where b.snum = (select snum from salespeople a where a.snum = (select snum from customer where cname = 'Hofman'))) and a.cnum = b.cnum and b.snum = c.snum;

85 ques:

mysql> select sname,com from salespeople where com between 0.10 and 0.12;

86 ques:

mysql> select sname, city from salespeople where city = 'London' and com > 0.10;

87 ques:

mysql> select \* from orders where (amt < 1000 or not (odate = 10/03/1996 and cnum > 2003));

88 ques:

mysql> select min(amt),cname,a.cnum from orders a, customer b where a.cnum = b.cnum group by a.cnum;

89 ques:

mysql> select cname from customer where cname like 'G%' order by cname asc limit 1;

90 ques:

mysql> select city,count(city) from customer where city is not null group by city;

91 ques:

mysql> select avg(amt) from orders;

92 ques:

mysql> select \* from orders where not (odate = 10/03/96 or snum > 1006) and amt >= 1500);

Output for this query : It shows the following error message

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 1

93 ques:

mysql> select cname, rating, city from customer where not (city = 'San Jose') and rating > 200;

94 ques:

mysql> select \* from salespeople where com > 0.12 or com < 0.14;

mysql> select \* from salespeople;

95 ques:

mysql> select \* from orders a, customer b where not ((odate = 10/03/96 and b.snum in (select snum from customer where snum > 1002)) or amt > 2000) and a.cnum = b.cnum;

96 ques:

mysql> select sname, cname, a.city, b.city from salespeople a, customer b where a.snum = b.snum and a.city != b.city;

97 ques:

mysql> select sname from salespeople where snum in(select snum from customer where rating < 250) and com > 0.11;

98 ques:

mysql> select a.sname, b.sname, a.com, b.com,a.city, b.city from salespeople a, salespeople b where a.snum != b.snum and a.city = b.city and a.com != b.com;

99 ques:

mysql> select sname, com, amt, max(com \* amt) from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum;

100 ques:

mysql> select cname, max(rating), count(onum) from customer a, orders b where a.cnum = b.cnum and a.cnum in (select cnum from orders) group by cname;

101 ques:

mysql> select cname, max(amt) as maximamt, rating from customer a, orders b where a.cnum = b.cnum and a.cnum in (select cnum from orders) group by cname order by maximamt desc;

102 ques:

mysql> select \* from customer order by rating desc;

103 ques:

mysql> select odate, cname from orders a, customer b where a.cnum = b.cnum and b.cnum = (select cnum from customer where cname = 'Hofman');

mysql> select odate from orders where cnum = (select cnum from customer where cname = 'Hofman');

104 ques:

mysql> select sname, com,(com \* amt) from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum;

yes, all salespeople have different commission

105 ques:

mysql> select sname,snum from salespeople where snum in (select snum from customer where cnum in (select cnum from orders where odate not between '1996-10-03' and '1996-10-05'));

106 ques:

mysql> select count(distinct(snum)) from salespeople where snum in (select snum from customer where cnum in (select cnum from customer where cnum in (select cnum from orders)));

107 ques:

mysql> select count(distinct(cnum)) from orders;

108 ques:

mysql> select odate,sname, max(amt) from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum group by sname;

109 ques:

mysql> select sname from salespeople where snum in (select snum from customer where cnum = (select cnum from orders group by cnum having sum(amt) =(select max(tot) from (select sum(amt) as tot from orders group by cnum) as mini)));

mysql> select sname from salespeople where snum in (select snum from customer where cnum in (select cnum from orders group by cnum having count(onum) = (select max(tot) from(select count(onum) as tot from orders group by cnum) as highorders)));

mysql> select sname from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum and amt = (select max(amt) from orders);

110 ques:

mysql> select cname from customer where cnum = (select cnum from orders group by cnum having sum(amt) =(select min(tot) from (select sum(amt) as tot from orders group by cnum) as mini));

111 ques:

mysql> select sname from salespeople where snum in (select snum from customer where cnum in (select cnum from orders where amt < 200));

112 ques:

mysql> select a.cname, b.cname from customer a, customer b where a.rating = b.rating and a.cnum != b.cnum and a.cnum < b.cnum;

mysql> select a.cname, b.cname, a.cnum, b.cnum,a.rating, b.rating from customer a, customer b where a.rating = b.rating and a.cnum != b.cnum and a.cnum < b.cnum;

113 ques:

mysql> select cnum , onum, amt from orders where amt > (select avg(amt) from orders where odate = '1996-10-04');

mysql> select cnum , onum, amt, odate from orders where amt > (select avg(amt) from orders where odate = '1996-10-04');

114 ques:

mysql> select cname from customer where cnum in (select cnum from orders where amt > (select avg(amt) from orders));

115 ques:

mysql> select cname from customer where rating > (select avg(rating) from customer group by city having city = 'San Jose');

116 ques:

mysql> select a.snum,sum(amt) as total from salespeople a, customer b, orders c where a.snum in (select snum from customer where cnum in (select cnum from orders)) and a.snum = b.snum and b.cnum = c.cnum group by a.snum having total > (select max(amt) from orders);

117 ques:

mysql> select snum, sname from salespeople where snum in (select snum from customer group by snum having count(cnum) > 1);

118 ques:

mysql> select a.sname, a.snum,a.city,b.city from salespeople a, customer b where a.snum != b.snum and a.city = b.city;

119 ques:

mysql> select cname, rating, amt from customer a, orders b where a.cnum = b.cnum order by amt asc,rating asc limit 2;

120 ques:

mysql> select snum, city from salespeople where snum in (select snum from customer where city = 'Berlin');

mysql> select snum, city, sname from salespeople where snum in (select snum from customer where city = 'Berlin');

121 ques:

mysql> select sname, count(onum), sum(amt), count(distinct(b.cnum)), com from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum group by sname order by com desc;

122 ques:

mysql> select sum(tot) from(select (a.com\*sum(c.amt)) as tot from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum and a.snum in (select snum from salespeople where city = 'London' or city = 'New York')group by a.snum, b.snum) as total;

mysql> select sum(amt) from orders where cnum in(select cnum from customer where city = 'Rome' or 'London');

mysql> select sum(tot) as commision from(select (a.com\*sum(c.amt)) as tot from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum and a.snum in (select snum from salespeople where city = 'London' or city = 'New York')group by a.snum, b.snum) as total union all select amount from (select sum(amt) as amount from orders where cnum in (select cnum from customer where city = 'Rome' or 'London')) as amnt;

from the above data it is clearly visible that order does not exceed commission by 5 times

123 ques:

mysql> select a.snum,sname,odate,max(amt),a.city from salespeople a, customer b, orders c where a.snum in (select snum from customer b where b.cnum in (select cnum from orders)) and a.snum = b.snum and b.cnum = c.cnum group by sname;

124 ques:

mysql> select a.snum, sname, count(distinct(b.cnum)) as customers, count(onum) as orders, sum(amt) as total, rating from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum group by a.snum order by customers asc, orders asc, total asc;

According to this data Motika or Rifkin can be fired

125 ques:

mysql> select (sum(amt) - sum((com \* amt))) as income\_of\_the\_company from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum;

126 ques:

mysql> select sum(amt) from orders;

mysql> select (sum(amt) - sum((com \* amt))) as income\_of\_the\_company from salespeople a, customer b, orders c where a.snum = b.snum and b.cnum = c.cnum;

127 ques:

mysql> select sname,sum(amt),((sum(amt)/(select sum(amt) from orders))\*100) as contributionpercent, com, (com\*sum(amt)) as tot, (((com\*sum(amt))/(select sum(amt) from orders))\*100) as comision\_percentage from orders a, customer b, salespeople c where a.cnum = b.cnum and b.snum = c.snum group by sname;

128 ques:

mysql> select sname,sum(amt), com, (com\*sum(amt)) as tot from orders a, customer b, salespeople c where a.cnum = b.cnum and b.snum = c.snum group by sname;