**SQL Query: date 11-12-24**

mysql> select \* from salesman;

+-------------+---------+----------+------------+

| salesman\_id | name | city | commission |

+-------------+---------+----------+------------+

| 1 | nikita | pune | 20 |

| 2 | neha | mumbai | 30 |

| 3 | sandesh | khandala | 10 |

| 4 | pankaj | asawali | 20 |

| 5 | nita | bamnoli | 50 |

| 6 | vilas | asawali | 20 |

| 7 | advik | panvel | 60 |

+-------------+---------+----------+------------+

7 rows in set (0.00 sec)

mysql> select \* from customer1;

+-------------+---------------+------------+-------+-------------+

| customer\_id | cust\_name | city | grade | salesman\_id |

+-------------+---------------+------------+-------+-------------+

| 3001 | gemes gosling | japan | 300 | 2 |

| 3002 | Nick Rimando | New Tork | 100 | 1 |

| 3005 | graham zusi | california | 200 | 2 |

| 3007 | brad davis | new york | 200 | 1 |

| 3009 | xyz | abc | 100 | 3 |

+-------------+---------------+------------+-------+-------------+

5 rows in set (0.00 sec)

mysql> select \* from orders;

+--------+-----------+------------+-------------+-------------+

| ord\_no | purch\_amt | ord\_date | customer\_id | salesman\_id |

+--------+-----------+------------+-------------+-------------+

| 70001 | 150.5 | 2012-10-05 | 3005 | 2 |

| 70002 | 65.26 | 2012-10-05 | 3002 | 1 |

| 70004 | 110.5 | 2012-08-17 | 3009 | 3 |

| 70009 | 270.65 | 2012-09-10 | 3001 | 5 |

+--------+-----------+------------+-------------+-------------+

4 rows in set (0.00 sec)

1. **SQL query to find the salesperson and customer who reside in the same city. Return Salesman, cust\_name and city.**

mysql> select s.name as "salesman",c.cust\_name ,c.city from salesman s ,customer1 c where s.city=c.city;

+----------+---------------+--------+

| salesman | cust\_name | city |

+----------+---------------+--------+

| nikita | gemes gosling | pune |

| neha | Nick Rimando | Mumbai |

| advik | brad davis | panvel |

+----------+---------------+--------+

3 rows in set (0.00 sec)

**2) SQL query to find those orders where the order amount exists between 500 and 2000. Return ord\_no, purch\_amt, cust\_name, city**

mysql> select o.ord\_no,o.purch\_amt,c.cust\_name,c.city from customer1 c,orders o where c.customer\_id=o.customer\_id and o.purch\_amt between 100 and 170 ;

+--------+-----------+-------------+------------+

| ord\_no | purch\_amt | cust\_name | city |

+--------+-----------+-------------+------------+

| 70001 | 150.5 | graham zusi | california |

| 70004 | 110.5 | xyz | abc |

+--------+-----------+-------------+------------+

2 rows in set (0.00 sec)

**3) SQL query to find the salesperson(s) and the customer(s) he represents. Return Customer Name, city, Salesman, commission**

mysql> select c.cust\_name,c.city,s.name,s.commission from salesman s,customer1 c where s.salesman\_id=c.salesman\_id;

+---------------+------------+---------+------------+

| cust\_name | city | name | commission |

+---------------+------------+---------+------------+

| gemes gosling | pune | neha | 30 |

| Nick Rimando | Mumbai | nikita | 20 |

| graham zusi | california | neha | 30 |

| brad davis | panvel | nikita | 20 |

| xyz | abc | sandesh | 10 |

+---------------+------------+---------+------------+

5 rows in set (0.00 sec)

mysql> select c.cust\_name,c.city,s.name,s.commission from salesman s join customer1 c on s.salesman\_id=c.salesman\_id;

+---------------+------------+---------+------------+

| cust\_name | city | name | commission |

+---------------+------------+---------+------------+

| gemes gosling | pune | neha | 30 |

| Nick Rimando | Mumbai | nikita | 20 |

| graham zusi | california | neha | 30 |

| brad davis | panvel | nikita | 20 |

| xyz | abc | sandesh | 10 |

+---------------+------------+---------+------------+

5 rows in set (0.00 sec)

**4) SQL query to find salespeople who received commissions of more than 12 percent from the company. Return Customer Name, customer city, Salesman, commission.**

mysql> select c.cust\_name as 'Customer name' ,c.city as 'customer city',s.name as 'salesman', s.commission as 'commission' from salesman s join customer1 c on s.salesman\_id=c.salesman\_id where s.commission >12;

+---------------+---------------+----------+------------+

| Customer name | customer city | salesman | commission |

+---------------+---------------+----------+------------+

| Nick Rimando | Mumbai | nikita | 20 |

| brad davis | panvel | nikita | 20 |

| gemes gosling | pune | neha | 30 |

| graham zusi | california | neha | 30 |

+---------------+---------------+----------+------------+

4 rows in set (0.00 sec)

**5)SQL query to locate those salespeople who do not live in the same city where their customers live and have received a commission of more than 12% from the company. Return Customer Name, customer city, Salesman, salesman city, commission**

mysql> select c.cust\_name as 'customer name', c.city as 'customer city', s.name as 'salesman',s.city as 'salesman city' ,s.commission as 'commission' from salesman s join customer1 c on s.salesman\_id=c.salesman\_id where s.city<>c.city and s.commission>12;

+---------------+---------------+----------+---------------+------------+

| customer name | customer city | salesman | salesman city | commission |

+---------------+---------------+----------+---------------+------------+

| Nick Rimando | Mumbai | nikita | pune | 20 |

| brad davis | panvel | nikita | pune | 20 |

| gemes gosling | pune | neha | mumbai | 30 |

| graham zusi | california | neha | mumbai | 30 |

+---------------+---------------+----------+---------------+------------+

4 rows in set (0.00 sec)

**6) SQL query to find the details of an order. Return ord\_no, ord\_date, purch\_amt, Customer Name, grade, Salesman, commission**.

mysql> select o.ord\_no ,o.ord\_date,o.purch\_amt,c.cust\_name,c.grade,s.name as 'salesman',s.commission from salesman s inner join orders o on s.salesman\_id =o.salesman\_id inner join customer1 c on s.salesman\_id=c.salesman\_id;

+--------+------------+-----------+---------------+-------+----------+------------+

| ord\_no | ord\_date | purch\_amt | cust\_name | grade | salesman | commission |

+--------+------------+-----------+---------------+-------+----------+------------+

| 70001 | 2012-10-05 | 150.5 | gemes gosling | 300 | neha | 30 |

| 70002 | 2012-10-05 | 65.26 | Nick Rimando | 100 | nikita | 20 |

| 70001 | 2012-10-05 | 150.5 | graham zusi | 200 | neha | 30 |

| 70002 | 2012-10-05 | 65.26 | brad davis | 200 | nikita | 20 |

| 70004 | 2012-08-17 | 110.5 | xyz | 100 | sandesh | 10 |

+--------+------------+-----------+---------------+-------+----------+------------+

5 rows in set (0.00 sec)

**7) Write a SQL statement to join the tables salesman, customer and orders so that the same column of each table appears once and only the relational rows are returned**.

mysql> select s.salesman\_id , s.name as 'salesman name', s.city , s.commission ,c.customer\_id, c.cust\_name as 'customer name' ,c.grade,o.ord\_no,o.purch\_amt,o.ord\_date from salesman s join customer1 c on s.salesman\_id-c.salesman\_id join orders o on s.salesman\_id=o.salesman\_id;

+-------------+---------------+----------+------------+-------------+---------------+-------+--------+-----------+------------+

| salesman\_id | salesman name | city | commission | customer\_id | customer name | grade | ord\_no | purch\_amt | ord\_date |

+-------------+---------------+----------+------------+-------------+---------------+-------+--------+-----------+------------+

| 5 | nita | bamnoli | 50 | 3001 | gemes gosling | 300 | 70009 | 270.65 | 2012-09-10 |

| 3 | sandesh | khandala | 10 | 3001 | gemes gosling | 300 | 70004 | 110.5 | 2012-08-17 |

| 1 | nikita | pune | 20 | 3001 | gemes gosling | 300 | 70002 | 65.26 | 2012-10-05 |

| 5 | nita | bamnoli | 50 | 3002 | Nick Rimando | 100 | 70009 | 270.65 | 2012-09-10 |

| 3 | sandesh | khandala | 10 | 3002 | Nick Rimando | 100 | 70004 | 110.5 | 2012-08-17 |

| 2 | neha | mumbai | 30 | 3002 | Nick Rimando | 100 | 70001 | 150.5 | 2012-10-05 |

| 5 | nita | bamnoli | 50 | 3005 | graham zusi | 200 | 70009 | 270.65 | 2012-09-10 |

| 3 | sandesh | khandala | 10 | 3005 | graham zusi | 200 | 70004 | 110.5 | 2012-08-17 |

| 1 | nikita | pune | 20 | 3005 | graham zusi | 200 | 70002 | 65.26 | 2012-10-05 |

| 5 | nita | bamnoli | 50 | 3007 | brad davis | 200 | 70009 | 270.65 | 2012-09-10 |

| 3 | sandesh | khandala | 10 | 3007 | brad davis | 200 | 70004 | 110.5 | 2012-08-17 |

| 2 | neha | mumbai | 30 | 3007 | brad davis | 200 | 70001 | 150.5 | 2012-10-05 |

| 5 | nita | bamnoli | 50 | 3009 | xyz | 100 | 70009 | 270.65 | 2012-09-10 |

| 1 | nikita | pune | 20 | 3009 | xyz | 100 | 70002 | 65.26 | 2012-10-05 |

| 2 | neha | mumbai | 30 | 3009 | xyz | 100 | 70001 | 150.5 | 2012-10-05 |

+-------------+---------------+----------+------------+-------------+---------------+-------+--------+-----------+------------+

15 rows in set (0.00 sec)

**8) SQL query to display the customer name, customer city, grade, salesman, salesman city. The results should be sorted by ascending customer\_id.**

mysql> select c.cust\_name, c.city,c.grade,s.name,s.city from salesman s join customer1 c on s.salesman\_id =c.salesman\_id order by c.customer\_id asc;

+---------------+------------+-------+---------+----------+

| cust\_name | city | grade | name | city |

+---------------+------------+-------+---------+----------+

| gemes gosling | pune | 300 | neha | mumbai |

| Nick Rimando | Mumbai | 100 | nikita | pune |

| graham zusi | california | 200 | neha | mumbai |

| brad davis | panvel | 200 | nikita | pune |

| xyz | abc | 100 | sandesh | khandala |

+---------------+------------+-------+---------+----------+

5 rows in set (0.00 sec)

**9) SQL query to find those customers with a grade less than 300. Return cust\_name, customer city, grade, Salesman, salesmancity. The result should be ordered by ascending customer\_id.**

mysql> select c.cust\_name, c.city,c.grade,s.name,s.city from salesman s inner join customer1 c on s.salesman\_id=c.salesman\_id where c.grade<300;

+--------------+------------+-------+---------+----------+

| cust\_name | city | grade | name | city |

+--------------+------------+-------+---------+----------+

| Nick Rimando | Mumbai | 100 | nikita | pune |

| graham zusi | california | 200 | neha | mumbai |

| brad davis | panvel | 200 | nikita | pune |

| xyz | abc | 100 | sandesh | khandala |

+--------------+------------+-------+---------+----------+

4 rows in set (0.00 sec)

**10) Write a SQL statement to make a report with customer name, city, order number, order date, and order amount in ascending order according to the order date to determine whether any of the existing customers have placed an order or not.**

mysql> select c.cust\_name as 'customer name',c.city as 'city', o.ord\_no as 'order number' ,o.ord\_date as 'order date' ,o.purch\_amt as 'order amount' from customer1 c inner join orders o on c.salesman\_id=o.salesman\_id order by o.ord\_date asc;

+---------------+------------+--------------+------------+--------------+

| customer name | city | order number | order date | order amount |

+---------------+------------+--------------+------------+--------------+

| xyz | abc | 70004 | 2012-08-17 | 110.5 |

| gemes gosling | pune | 70001 | 2012-10-05 | 150.5 |

| Nick Rimando | Mumbai | 70002 | 2012-10-05 | 65.26 |

| graham zusi | california | 70001 | 2012-10-05 | 150.5 |

| brad davis | panvel | 70002 | 2012-10-05 | 65.26 |

+---------------+------------+--------------+------------+--------------+

5 rows in set (0.00 sec)

**11) SQL statement to generate a report with customer name, city, order number, order date, order amount, salesperson name, and commission to determine if any of the existing customers have not placed orders or if they have placed orders through their salesman or by themselves.**

mysql> select c.cust\_name as 'customer name',c.city as 'city',o.ord\_no as 'order number',o.ord\_date as 'order date', o.purch\_amt as 'order amount', s.name as 'salesperson name ',s.commission from customer1 c left outer join orders o on c.salesman\_id=o.salesman\_id left outer join salesman s on c.salesman\_id=s.salesman\_id;

+---------------+------------+--------------+------------+--------------+-------------------+------------+

| customer name | city | order number | order date | order amount | salesperson name | commission |

+---------------+------------+--------------+------------+--------------+-------------------+------------+

| gemes gosling | pune | 70001 | 2012-10-05 | 150.5 | neha | 30 |

| Nick Rimando | Mumbai | 70002 | 2012-10-05 | 65.26 | nikita | 20 |

| graham zusi | california | 70001 | 2012-10-05 | 150.5 | neha | 30 |

| brad davis | panvel | 70002 | 2012-10-05 | 65.26 | nikita | 20 |

| xyz | abc | 70004 | 2012-08-17 | 110.5 | sandesh | 10 |

+---------------+------------+--------------+------------+--------------+-------------------+------------+

5 rows in set (0.00 sec)

**12) Write a SQL statement to generate a list in ascending order of salespersons who work either for one or more customers or have not yet joined any of the customers**.

mysql> select s.name as 'selespers name', s.city as 'city' ,c.cust\_name as 'customer name',c.city as 'city',c.grade from salesman s right outer join customer1 c on s.salesman\_id=c.salesman\_id order by s.name asc;

+----------------+----------+---------------+------------+-------+

| selespers name | city | customer name | city | grade |

+----------------+----------+---------------+------------+-------+

| neha | mumbai | gemes gosling | pune | 300 |

| neha | mumbai | graham zusi | california | 200 |

| nikita | pune | Nick Rimando | Mumbai | 100 |

| nikita | pune | brad davis | panvel | 200 |

| sandesh | khandala | xyz | abc | 100 |

+----------------+----------+---------------+------------+-------+

5 rows in set (0.00 sec)

13)