Assignment-21

Joins on sql

Kaviya C

1.From the following tables write a SQL query to find the salesperson and customer who belongs to same city. Return Salesman, cust_name and city

Sample table: salesman

salesman_id		-	
5002 5005 5006 5007	James Hoog Nail Knite Pit Alex Mc Lyon Paul Adam	New York Paris London Paris Rome	0.15 0.13 0.11 0.14 0.13
5003	Lauson Hen	San Jose	0.12

Sample table: customer

salesma	n_id	cust_name					
	+		-+-		-+		-+
	3002	Nick Rimando	1	New York	1	100	
5001	3007	Brad Davis	1	New York	1	200	
5001	3005 L	Graham Zusi	1	California	ı	200	I
5002							
5002	3008	Julian Green		London		300	
5006	3004	Fabian Johnson	1	Paris	1	300	
5006	3009	Geoff Cameron	1	Berlin	1	100	1
5003	3003	Jozy Altidor	1	Moscow	1	200	1
5007	3003	002y Altidol	ı	MOSCOW	ı	200	ı
5005	3001	Brad Guzan		London	I		

2 From the following tables write a SQL query to find those orders where order amount exists between 500 and 2000. Return ord_no, purch_amt, cust_name, city.

Orders table

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70001	270.65	2012-10-03	3003	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

Customer table

E006	3004	Fabian Johnson	Paris		300
5006	3009	Geoff Cameron	Berlin		100
5003	3003	Jozy Altidor	Moscow		200
5005	3001	Brad Guzan	London	1	1

QUERY:

3.

From the following tables write a SQL query to find the salesperson(s) and the customer(s) he handle. Return Customer Name, city, Salesman, commission

Refer customer and salesman table above

Customer Name city Salesman commission Nick Rimando New York James Hoog 0.15 Brad Davis New York James Hoog 0.15 Graham Zusi California Nail Knite 0.13 Julian Green London Nail Knite 0.13 Fabian Johnson Paris Mc Lyon 0.14 Geoff Cameron Berlin Lauson Hen 0.12 Jozy Altidor Moscow Paul Adam 0.13 Brad Guzan London Pit Alex 0.11	-> sales.commi -> INNER JOIN	c.cust_name AS sales.name AS ssion FROM cus salesman sales lesman_id=sales	"Salesman", stomer cust	
Brad Davis New York James Hoog 0.15 Graham Zusi California Nail Knite 0.13 Julian Green London Nail Knite 0.13 Fabian Johnson Paris Mc Lyon 0.14 Geoff Cameron Berlin Lauson Hen 0.12 Jozy Altidor Moscow Paul Adam 0.13	Customer Name	city	Salesman	commission
	Brad Davis Graham Zusi Julian Green Fabian Johnson Geoff Cameron Jozy Altidor	New York California London Paris Berlin Moscow	James Hoog Nail Knite Nail Knite Mc Lyon Lauson Hen Paul Adam	0.15 0.13 0.13 0.14 0.12 0.13

4. From the following tables write a SQL query to find those salespersons who received a commission from the company more than 12%. Return Customer Name, customer city, Salesman, commission.

Refer customer and salesman table above

QUERY:

```
mysql> SELECT cust.cust_name AS "Customer Name",
     -> cust.city,sales.name AS "Salesman",
     -> sales.commission FROM customer cust
     -> INNER JOIN salesman sales
     -> ON cust.salesman id=sales.salesman id
     -> WHERE sales.commission>.12;
  Customer Name | city | Salesman | commission
     . - - - - - - - - + - - - - - - - - - + - - - - - - - + - - - - - + - - - - - - + - - - - - - - - - - - - - - -
 Nick Rimando | New York | James Hoog |
Brad Davis | New York | James Hoog |
Graham Zusi | California | Nail Knite |
Julian Green | London | Nail Knite |
Fabian Johnson | Paris | Mc Lyon |
Jozy Altidor | Moscow | Paul Adam |
                                                                   0.15
                                                                          0.15
                                                                           0.13
                                                                           0.13
                                                                          0.14
                                                                          0.13
6 rows in set (0.00 sec)
```

5. From the following tables write a SQL query to find those salespersons do not live in the same city where their customers live and received a commission from the company more than 12%. Return Customer Name, customer city, Salesman, salesman city, commission.

Refer customer and salesman table above

6.From the following tables write a SQL query to find the details of an order. Return ord_no, ord_date, purch_amt, Customer Name, grade, Salesman, commission

Refer order customer and salesman tables

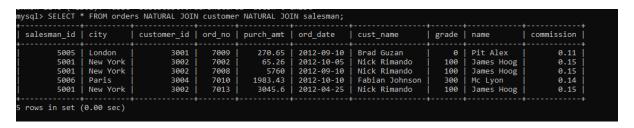
QUERY:

-> cu -> IN	st.grade, sale NER JOIN custe	es.name AS "S omer cust ON	.ord_date,orders. 5alesman",sales.co orders.customer_ ON orders.salesma	ommission id=cust.	FROM orders	orders	r Nam
ord_no	ord_date	purch_amt	Customer Name	grade	Salesman	commission	
7013	2012-04-25	3045.6	Nick Rimando	100	James Hoog	0.15	
7008	2012-09-10	5760	Nick Rimando	100	James Hoog	0.15	
7002	2012-10-05	65.26	Nick Rimando	100	James Hoog	0.15	
7007	2012-09-10	948.5	Graham Zusi	200	Nail Knite	0.13	
7001	2012-10-05	150.5	Graham Zusi	200	Nail Knite	0.13	
7012	2012-06-27	250.45	Julian Green	300	Nail Knite	0.13	
7010	2012-10-10	1983.43	Fabian Johnson	300	Mc Lyon	0.14	
7003	2012-10-10	2480.4	Geoff Cameron	100	Lauson Hen	0.12	
7004	2012-08-17	110.5	Geoff Cameron	100	Lauson Hen	0.12	
7011	2012-08-17	75.29	Jozy Altidor	200	Paul Adam	0.13	
7009	2012-09-10	270.65	Brad Guzan	0	Pit Alex	0.11	

7. Write a SQL statement to make a join on the tables salesman, customer and orders in such a form that the same column of each table will appear once and only the relational rows will come

order customer and salesman tables

QUERY:



8. From the following tables write a SQL query to display the cust_name, customer city, grade, Salesman, salesman city. The result should be ordered by ascending on customer_id.

Refer customer and salesman table

```
ysql> SELECT cust.cust_name,cust.city,cust.grade,sales.name AS "Salesman",sales.city FROM customer cust
   -> LEFT JOIN salesman sales ON cust.salesman_id=sales.salesman_id
   -> order by cust.customer_id;
cust name
                 | city
                                 | grade | Salesman
                                                         | city
                                      0 | Pit Alex
100 | James Hoo
200 | Paul Adam
300 | Mc Lyon
 Brad Guzan
 Nick Rimando
                    New York
                                                           New York
                                             James Hoog
 Jozy Altidor
                    Moscow
                                            Paul Adam
                                                           Rome
                                                           Paris
 Fabian Johnson
                   Paris
                                            Nail Knite
                    California
                                      200 |
200 |
 Graham Zusi
                                                           Paris
 Brad Davis
                   New York
                                            James Hoog
                                                           New York
 Julian Green
                    London
                                      300
                                            Nail Knite
                                                           Paris
                                      300 | Nail Knite
100 | Lauson Hen
 Geoff Cameron
                  Berlin
```

9. From the following tables write a SQL query to find those customers whose grade less than 300. Return cust_name, customer city, grade, Salesman, saleman city. The result should be ordered by ascending customer_id

Refer customer and salesman table

OUERY:

```
mysql> SELECT cust.cust_name,cust.city ,cust.grade,
   -> sales.name AS "Salesman", sales.city
   -> FROM customer cust LEFT OUTER JOIN salesman sales
   -> ON cust.salesman_id=sales.salesman_id WHERE cust.grade<300
   -> ORDER BY cust.customer_id;
               city
                            grade | Salesman
 cust_name
                                                 city
               London
                                      Pit Alex
 Brad Guzan
                                 0
                                                  London
 Nick Rimando | New York
                                100 | James Hoog |
                                                  New York
 Jozy Altidor
                                      Paul Adam
                Moscow
                                200
                                                  Rome
                California
 Graham Zusi
                                200
                                     Nail Knite
                                                  Paris
                New York
 Brad Davis
                                                  New York
                                200
                                      James Hoog
 Geoff Cameron | Berlin
                                100
                                                  San Jose
                                     Lauson Hen
 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 find that either any of the existing customers have placed no order or placed one or more orders.

Refer order and customer

- mysql> SELECT cust.cust_name,cust.city,orders.ord_no,
 -> orders.ord_date,orders.purch_amt AS "Order Amount"
 -> FROM customer cust LEFT OUTER JOIN orders orders
 -> ON cust.customer_id=orders.customer_id ORDER BY orders.ord_date;

12 rows in set (0.00 sec)