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

Sample table: customer

salesman	n_id	cust_name					
	3002	Nick Rimando		New York	1	100	1
5001	3007 I	Brad Davis	1	New York	ı	200	1
5001		Diad David	'	11011 10111	1	200	1
	3005	Graham Zusi		California		200	1
5002	3008	Julian Green	I	London	1	300	1
5002	3004	Fabian Johnson	I	Paris	1	300	1
5006	3009	Geoff Cameron	I	Berlin	1	100	1
5003	3003	Jozy Altidor	I	Moscow	1	200	1
5007	3001	Brad Guzan	I	London			I
5005							

Query:

select salesman.name,customer.cust_name,customer.city from salesman inner join customer on salesman.city=customer.city;

Output:

mysql> select -> salesma	salesman.name,cus an.city=customer.d	stomer.cust_ ity;	_name,customer.city	from salesman	inner join	customer on
name	cust_name	city	<u> </u>			
James Hoog James Hoog Pit Alex Mc Lyon Nail Knite Pit Alex	Nick Rimando Brad Davis Julian Green Fabian Johnson Fabian Johnson Brad Guzan	New York New York London Paris Paris London				
6 rows in set	(0.00 sec)		r			

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
70009	270.65	2012-09-10	3001	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

customer_id	cust_name		city		grade	sa	lesman_id
+		-+-		-+		-+-	
3002	Nick Rimando		New York		100		5001
3007	Brad Davis		New York		200		5001
3005	Graham Zusi		California		200		5002
3008	Julian Green		London		300		5002
3004	Fabian Johnson		Paris		300		5006
3009	Geoff Cameron		Berlin		100		5003
3003	Jozy Altidor		Moscow		200		5007
3001	Brad Guzan		London				5005

Query:

select o.ord_no,o.purch_amt,c.cust_name,c.city from orders o,customer c where o.customer_id=c.customer_id and o.purch_amt between 500 and 2000;

Output:

```
      mysql> select o.ord_no,o.purch_amt,c.cust_name,c.city from orders o,customer c where

      -> o.customer_id=c.customer_id and o.purch_amt between 500 and 2000;

      +-----+

      | ord_no | purch_amt | cust_name | city |

      +-----+

      | 70007 | 948.5 | Graham Zusi | California |

      | 70010 | 1983.43 | Fabian Johnson | Paris |

      +-----+

      2 rows in set (0.02 sec)
```

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

Query:

select c.cust_name,c.city,s.name,s.commission from customer c inner join salesman s on c.salesman_id=s.salesman_id;

mysql> select c.cu -> s on c.sale			ommission from	customer	c inner	join salesman
cust_name	city	name	commission			
Nick Rimando Brad Davis Graham Zusi Julian Green Fabian Johnson Geoff Cameron Jozy Altidor Brad Guzan	New York New York California London Paris Berlin Moscow London	James Hoog James Hoog Nail Knite Nail Knite Mc Lyon Lauson Hen Paul Adam Pit Alex	0.15 0.15 0.13 0.13 0.14 0.12 0.13 0.11			
8 rows in set (0.0	00 sec)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Joins

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:

select c.cust_name,c.city,s.salesman_id,s.commission from customer c inner join salesman s on c.salesman_id=s.salesman_id where commission>0.12;

Output:

```
mysql> select c.cust_name,c.city,s.salesman_id,s.commission from customer c inner join
-> salesman s on c.salesman_id=s.salesman_id where commission>0.12;
                                               salesman_id
  cust_name
                            city
                                                                    commission
                                                                              0.15
0.15
  Nick Rimando
Brad Davis
                            New York
New York
California
                                                          5001
                                                          5001
  Graham Zusi
                                                          5002
  Julian Green
Fabian Johnson
                                                           5002
                            London
                            Paris
                                                          5006
   Jozy Altidor
                            Moscow
                                                          5007
  rows in set (0.02 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

Query:

select c.cust_name,c.city,s.salesman_id,s.commission from customer c inner join salesman s on c.salesman_id=s.salesman_id where c.city<>s.city and s.commission>0.12;

Joins

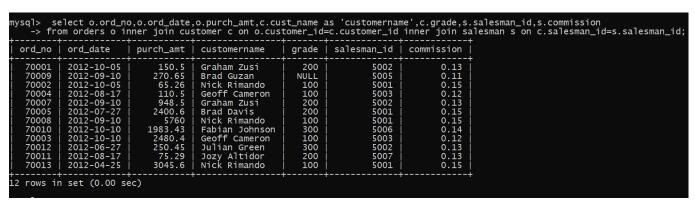
6. From the following tables write a SQL query to find the details of an order. Return ord_no, ord_date, purch_amt, Customer Name, grade, Salesman, commission

Refer order customer and salesman tables

Query:

select o.ord_no,o.ord_date,o.purch_amt,c.cust_name as 'customername',c.grade,s.salesman_id,s.commission from orders o inner join customer c on o.customer_id=c.customer_id inner join salesman s on c.salesman id=s.salesman id;

Output:



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:

select * from oders natural join salesman natural join customer;



Joins

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

Query:

select c.cust_name,c.city,c.grade,s.salesman_id,s.city from customer c inner join salesman s on c.salesman_id=s.salesman_id order by c.customer_id;

Output:

```
mysql> select c.cust_name,c.city,c.grade,s.salesman_id,s.city from customer c inner join -> salesman s on c.salesman_id=s.salesman_id order by c.customer_id;
                          city
                                                         salesman_id
                                              grade |
  cust_name
  Brad Guzan
                           London
                                                NULL
                                                                     5005
                                                                               London
 Nick Rimando
Jozy Altidor
Fabian Johnson
Graham Zusi
                                                 100
200
                                                                    5001
5007
5006
                           New York
Moscow
                                                                               New York
                                                                               Rome
                                                                               Paris
                                                 300
                           Paris
                                                 200
                                                                     5002
                           California
                                                                               Paris
  Brad Davis
                           New York
                                                 200
                                                                     5001
                                                                               New York
  Julian Green
Geoff Cameron
                           London
                                                 300
                                                                     5002
                                                                               Paris
                           Berlin
                                                                     5003
                                                                              San Jose
                                                 100
  rows in set (0.00 sec)
```

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

Query:

select c.cust_name,c.city,c.grade,s.salesman_id,s.city from customer c inner join salesman s on c.salesman_id=s.salesman_id where grade<300 order by customer_id;

```
mysql> select c.cust_name,c.city,c.grade,s.salesman_id,s.city from customer c inner jo
-> salesman s on c.salesman_id=s.salesman_id where grade<300 order by customer_id;
                                                              salesman_id
  cust_name
                            city
                                                  grade
                                                                                     city
                                                     100
200
200
200
                                                                          5001
5007
  Nick Rimando
                            New York
                                                                                     New York
  Jozy Altidor
Graham Zusi
                            Moscow
California
                                                                                     Rome
                                                                          5002
                                                                                     Paris
  Brad Davis
Geoff Cameron
                            New York
Berlin
                                                                                     New York
San Jose
                                                                          5001
                                                     100
                                                                          5003
  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

Query:

select c.cust_name,c.city,o.ord_no,o.ord_date,o.purch_amt from customer c left outer join orders o on c.customer_id=o.customer_id order by o.ord_date;

mysql> select c.d -> outer join					from customer c left y o.ord_date;
cust_name	city	ord_no	ord_date	purch_amt	
Nick Rimando Julian Green Brad Davis Geoff Cameron Jozy Altidor Nick Rimando Graham Zusi Brad Guzan Nick Rimando Graham Zusi Fabian Johnson Geoff Cameron	New York London New York Berlin Moscow New York California London New York California	70013 70012 70005 70004 70011 70008 70007 70009 70002 70001 70010 70003	2012-04-25 2012-06-27 2012-07-27 2012-08-17 2012-09-10 2012-09-10 2012-09-10 2012-10-05 2012-10-05 2012-10-10	3045.6 250.45 2400.6 110.5 75.29 5760 948.5 270.65 65.26 150.5 1983.43 2480.4	
12 rows in set (0	.00 sec)	+	+	++	