

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	name	city	commission
5001	James Hoog	New York	0.15
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

customer_id	cust_name	city	grade	salesman_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

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

name	cust_name
Pit Alex	Brad Guzan
James Hoog	Nick Rimando
Nail Knite	Fabian Johnson
Pit Alex	Julian Green

4 rows in set (0.00 sec)

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
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```

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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 | salesman_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

```

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 (0.01 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

```

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

```

cust_name	city	name	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	0.12
Brad Guzan	London	Pit Alex	0.11

8 rows in set (0.00 sec)

- 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.

```
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;
```

cust_name	city	salesman_id	commission
Nick Rimando	New York	5001	0.15
Brad Davis	New York	5001	0.15
Graham Zusi	California	5002	0.13
Julian Green	London	5002	0.13
Fabian Johnson	Paris	5006	0.14

- 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.

```
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 c.city<>s.city and s.commission>0.12;
```

```
+-----+-----+-----+-----+
| cust_name | city | salesman_id | commission |
+-----+-----+-----+-----+
| Nick Rimando | New York | 5001 | 0.15 |
| Brad Davis | moscow | 5007 | 0.13 |
| Graham Zusi | California | 5002 | 0.13 |
| Julian Green | London | 5002 | 0.13 |
| Fabian Johnson | Paris | 5006 | 0.14 |
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

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

```
mysql> 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;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| ord_no | ord_date | purch_amt | customername | grade | salesman_id | commission |
+-----+-----+-----+-----+-----+-----+-----+
| 70001 | 2012-10-05 | 150.5 | Graham Zusi | 200 | 5002 | 0.13 |
| 70009 | 2012-09-10 | 270.65 | Brad Guzan | NULL | 5005 | 0.11 |
| 70002 | 2012-10-05 | 65.26 | Nick Rimando | 100 | 5001 | 0.15 |
| 70004 | 2012-08-17 | 110.5 | Geoff Cameron | 100 | 5003 | 0.12 |
| 70007 | 2012-09-10 | 948.5 | Graham Zusi | 200 | 5002 | 0.13 |
| 70005 | 2012-07-27 | 2400.6 | Brad Davis | 200 | 5001 | 0.15 |
| 70008 | 2012-09-10 | 5760 | Nick Rimando | 100 | 5001 | 0.15 |
| 70010 | 2012-10-10 | 1983.43 | Fabian Johnson | 300 | 5006 | 0.14 |
| 70003 | 2012-10-10 | 2480.4 | Geoff Cameron | 100 | 5003 | 0.12 |
| 70012 | 2012-06-27 | 250.45 | Julian Green | 300 | 5002 | 0.13 |
| 70011 | 2012-08-17 | 75.29 | Jozy Altidor | 200 | 5007 | 0.12 |
```

70013	2012-04-25	3045.6	Nick Rimando	100	5001	0.15
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```
+-----+-----+-----+-----+-----+-----+-----+
```

12 rows in set (0.00 sec)

- 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

```
mysql> select * from orders natural join salesman natural join customer;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+
```

salesman_id	customer_id	city	ord_no	purch_amt	ord_date	name	commission	cust_name	grade
-------------	-------------	------	--------	-----------	----------	------	------------	-----------	-------

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+
```

5005	3001	London	70009	270.65	2012-09-10	Pit Alex	0.11	Brad Guzan	NULL
------	------	--------	-------	--------	------------	----------	------	------------	------

5001	3002	New York	70002	65.26	2012-10-05	James Hoog	0.15	Nick Rimando	100
------	------	----------	-------	-------	------------	------------	------	--------------	-----

5001	3002	New York	70008	5760	2012-09-10	James Hoog	0.15	Nick Rimando	100
------	------	----------	-------	------	------------	------------	------	--------------	-----

5001	3002	New York	70013	3045.6	2012-04-25	James Hoog	0.15	Nick Rimando	100
------	------	----------	-------	--------	------------	------------	------	--------------	-----

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+
```

4 rows in set (0.00 sec)

- 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.

```
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;
```

```
+-----+-----+-----+-----+-----+
```

cust_name	city	grade	salesman_id	city
-----------	------	-------	-------------	------

```
+-----+-----+-----+-----+-----+
```

Brad Guzan	London	NULL	5005	London
------------	--------	------	------	--------

Nick Rimando	New York	100	5001	New York
--------------	----------	-----	------	----------

Jozy Altidor	Moscow	200	5007	Rome	
Fabian Johnson	Paris	300	5006	Paris	
Graham Zusi	California	200	5002	Paris	
Brad Davis	New York	200	5001	New York	
Julian Green	London	300	5002	Paris	
Geoff Cameron	Berlin	100	5003	San Jose	

```
+-----+-----+-----+-----+-----+
```

8 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, salesman city. The result should be ordered by ascending customer_id

```
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 where grade<300 order by customer_id;
```

```
+-----+-----+-----+-----+-----+
```

cust_name	city	grade	salesman_id	city	
-----------	------	-------	-------------	------	--

```
+-----+-----+-----+-----+-----+
```

Nick Rimando	New York	100	5001	New York	
Jozy Altidor	Moscow	200	5007	Rome	
Graham Zusi	California	200	5002	Paris	
Brad Davis	New York	200	5001	New York	
Geoff Cameron	Berlin	100	5003	San Jose	

```
+-----+-----+-----+-----+-----+
```

5 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.

```
mysql> 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;
```

```
+-----+-----+-----+-----+-----+
```

cust_name	city	ord_no	ord_date	purch_amt	
-----------	------	--------	----------	-----------	--

```
+-----+-----+-----+-----+-----+
```

Nick Rimando	New York	70013	2012-04-25	3045.6	
Julian Green	London	70012	2012-06-27	250.45	
Brad Davis	New York	70005	2012-07-27	2400.6	
Geoff Cameron	Berlin	70004	2012-08-17	110.5	
Jozy Altidor	Moscow	70011	2012-08-17	75.29	
Nick Rimando	New York	70008	2012-09-10	5760	
Graham Zusi	California	70007	2012-09-10	948.5	
Brad Guzan	London	70009	2012-09-10	270.65	
Nick Rimando	New York	70002	2012-10-05	65.26	
Graham Zusi	California	70001	2012-10-05	150.5	
Fabian Johnson	Paris	70010	2012-10-10	1983.43	
Geoff Cameron	Berlin	70003	2012-10-10	2480.4	

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

12 rows in set (0.00 sec)