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REGN NO	**:**	**19BCS0012**
DBMS ETH	**:**	**I**
(PROBLEM SOLVING)		
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Submission date	**:**	**03/09/2020**

1. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.
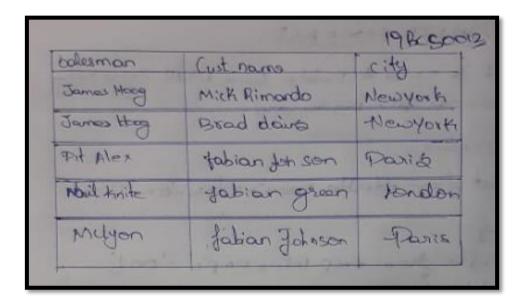
Sample table: salesman

```
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 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
```

```sql
SELECT                  salesman.name
AS"Salesman",customer.cust_name,cus
tomer.city
FROMsalesman,customer
WHEREsalesman.city=customer.city;
```

2. Write a SQL statement to make a list with order no, purchase amount, customer name and their cities for those orders which order amount between 500 and 2000.

Sample table: orders

```
ord_nopurch_amtord_datecustomer_idsalesman_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
```
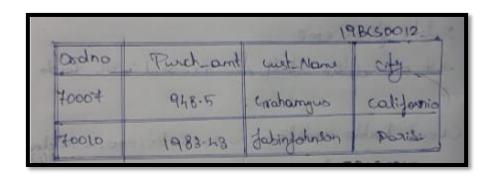
Sample table: customer

```
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
```

```sql
SELECT a.ord_no, a.purch_amt,
b.cust_name, b.city FROM
orders a, customer b
WHERE a.customer_id=b.customer_id
AND a.purch_amt BETWEEN 500 AND 2000;
```

Write the expected output for the above query?

3. Write a SQL statement to know which salesman are working for which customer.

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
```

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
```

```sql
SELECT a.cust_name AS "Customer Name",
a.city, b.name AS "Salesman", b.commission
FROM customer a
```

```
INNERJOIN salesman b
ONa.salesman_id=b.salesman_id;
```

<u>Write the expected output for the above query?</u>

.

4. Write a SQL statement to find the list of customers who appointed a

salesman for their jobs who gets a commission from the company is more
than 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
```

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
```

```sql
SELECT a.cust_name AS "Customer Name",
a.city, b.name AS "Salesman", b.commission
FROM customer a
INNERJOIN salesman b
ON a.salesman_id = b.salesman_id
WHERE b.commission > .12;
```

Write the appropriate output for the given query

****

5. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who does not live in the same city where their customer lives, and gets a commission is above 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
```

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
```

```sql
SELECTa.cust_nameAS"Customer Name",
a.city, b.name AS"Salesman",b.city,b.commission
FROM customer a
INNERJOIN salesman b
ONa.salesman_id=b.salesman_id
WHEREb.commission>.12
ANDa.city<>b.city;
```

Write the appropriate output for the given query?