



# VIT<sup>®</sup>

**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

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**REGN NO : 19BCS0012**

**DBMS ETH : I**

**(PROBLEM SOLVING)**

**PROF : VANI M P**

**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

```

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

## What is the output write it?

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salesman	Cust. name	city
James Hogg	Mick Rimando	New York
James Hogg	Brad Davis	New York
Pit Alex	fabian Johnson	Paris
Nail Knite	fabian green	London
Mulyon	fabian Johnson	Paris

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_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

*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

```

```

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?**

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ordno	Purch_amt	cust_Name	city
70007	948.5	Grahamyus	california
70010	1983.43	Fabian Johnson	Paris

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

```

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;

Write the expected output for the above query?

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	Laurentien	0.12
Jozy Altidor	Moscow	Rene Adam	0.13

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

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

**Write the appropriate output for the given query**

customer name	city	Salesman	commission
Nick Rimando	New York	James Long	0.15
Brad Davis	New York	James Long	0.15
Graham Zusi	California	Naila Saito	0.13
Julian Green	London	Naila Saito	0.13
Fabian Johnson	Paris	Melyon	0.14
Jozy Altidor	Berlin	Lauson Hen	0.12
Geoff Cameron	Moscow	Paul Adam	0.13
Brad Guzan	London	Pit Alex	0.11

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**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

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

Write the appropriate output for the given query?

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Customer name	city	salesman	city	commission
Brad celvis	New York	Nail Knite	Paris	0.13
Julian Green	London	Nail Knite	Paris	0.13
Joey Attidon	MD Stow	Paul Adam	Rome	0.13