

## **Assignment-8**

1-Find those salesperson name who live in any one of the cities of customers  
(do it both with sub-query and join)

STATEMENT:

*Using Sub-query:*

```
SELECT Sname FROM SalesPeople WHERE City In (SELECT City FROM Customers);
```

*Using Join:*

```
SELECT DISTINCT Sname FROM SalesPeople s, Customers c where s.City = c.City;
```

OUTPUT:

SNAME
Peel
Motika
Serres

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2-Find those salesperson name, customers name who belong to any one of the city of customers

(do it both with sub-query and join)

STATEMENT:

*Using Sub-query:*

This method can't be used for this query

*Using Join:*

```
SELECT DISTINCT Sname, Cname FROM SalesPeople s, Customers c WHERE  
s.City = c.City;
```

OUTPUT:

SNAME	CNAME
Motika	Hoffman
Peel	Clemens
Motika	Clemens
Serres	Liu
Peel	Hoffman
Serres	Cisneros

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3-Find those salesperson name who belong to the city of their customer

(do it both with sub-query and join)

STATEMENT:

*Using Sub-query:*

```
SELECT Sname FROM SalesPeople WHERE (Snum, City) IN (SELECT Snum,  
City FROM Customers);
```

*Using Join:*

```
SELECT DISTINCT Sname FROM SalesPeople s, Customers c WHERE s.Snum  
= c.Snum and s.City = c.City;
```

OUTPUT:

SNAME
Peel
Serres

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4-Find those salesperson name who belong to the city of their customer

(do it with co-related sub-query)

STATEMENT:

```
SELECT Sname FROM SalesPeople s WHERE EXISTS (SELECT * FROM Customers c WHERE c.Snum = s.Snum and c.City = s.City);
```

OUTPUT:

SNAME
Peel
Serres

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5-Find those salesperson name, customer name where salesperson is assigned/not assigned to any customer

STATEMENT:

```
SELECT Sname, Cname FROM SalesPeople s, Customers c WHERE s.Snum = c.Snum(+);
```

OUTPUT:

SNAME	CNAME
Peel	Hoffman
Axelrod	Giovanni
Serres	Liu
Serres	Grass
Peel	Clemens
Rifkin	Cisneros
Motika	Pereira

6-Find those customer name who is not assigned to any salesperson

STATEMENT:

SELECT Cnum FROM Customers where Snum is NULL;

OUTPUT:

no data found

7-Find the highest order of each salesperson

STATEMENT:

SELECT Snum, MAX(Amt) FROM Orders group by Snum;

OUTPUT:

SNUM	MAX(AMT)
1007	1098.16
1004	1900.1
1001	9891.88
1002	5160.45
1003	1713.23

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8-Find the names of salesperson and their highest order

STATEMENT:

```
SELECT Sname, MAX(Amt) FROM SalesPeople s, Orders o WHERE s.Snum =  
o.Snum group by Sname;
```

OUTPUT:

SNAME	MAX(AMT)
Peel	9891.88
Motika	1900.1
Serres	5160.45
Axelrod	1713.23
Rifkin	1098.16

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9-Find those orders of salesperson which is more than his average orders

STATEMENT:

```
SELECT Onum, Snum, Amt FROM Orders x where Amt >  
(SELECT AVG(Amt) from Orders y where x.Snum = y.Snum);
```

OUTPUT:

ONUM	SNUM	AMT
3005	1002	5160.45
3006	1007	1098.16
3011	1001	9891.88

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10-List those salesperson who has more than two customers.

(use all 3 methods)

STATEMENT:

*Using join method:*

```
SELECT Sname FROM SalesPeople s, Customers c WHERE s.Snum = c.Snum  
group by Sname having COUNT(c.Snum)>2;
```

*Using sub-query method:*

```
SELECT Sname FROM SalesPeople WHERE Snum IN (SELECT Snum FROM  
Customers group by Snum having COUNT(Snum)>2);
```

*Using co-related sub-query method:*

```
SELECT Sname FROM SalesPeople s WHERE Snum>  
(SELECT COUNT(c.Snum) FROM Customers c WHERE c.Snum = s.Snum group  
by Sname having COUNT(c.Snum)>2);
```

OUTPUT:

no data found