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## Assignment – 5

Relational and Logical Operators.

1) Write a query that will give you all orders for more than Rs. 1,000.

```
D4_Vatsal_83889>select * from Orders where Amt>1000;
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.96 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3008 | 4723.00 | 1990-10-05 | 2007 | 1001 |
| 3010 | 1309.95 | 1990-10-03 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

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```

2) Write a query that will give you the names and cities of all salespeople in London with a commission above .10.

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```
D4_Vatsal_83889>select Sname, City from SALESPEOPLE where city = 'London' and com  
m>0.10;  
+-----+-----+  
| Sname | City |  
+-----+-----+  
| Peel  | London |  
| Motika | London |  
+-----+-----+  
2 rows in set (0.00 sec)
```

3) Write a query on the Customers table whose output will exclude all customers with a rating <= 100, unless they are located in Rome.

```
D4_Vatsal_83889>select * from Customers where rating>100 or city='Rome';  
+-----+-----+-----+-----+-----+  
| Cnum | Cname   | City   | Rating | Snum |  
+-----+-----+-----+-----+-----+  
| 2002 | Giovanni | Rome   | 200    | 1003 |  
| 2003 | Liu      | San Jose | 200    | 1002 |  
| 2004 | Grass    | Berlin  | 300    | 1002 |  
| 2008 | Cisneros | San Jose | 300    | 1007 |  
| 2007 | Pereira  | Rome    | 100    | 1004 |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

4) What will be the output from the following query?

```
Select * from Orders  
where (amt < 1000 OR  
NOT (odate = '1990-10-03'  
AND cnum > 2003));
```

Ans: Ans will generate all fields where amt < 1000 or orderdate is not 3<sup>rd</sup> Oct 1990 and Customer Number is less than equal to 2003.

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```
D4_Vatsal_83889>SELECT *
-> FROM Orders
-> WHERE (amt < 1000 OR NOT (odate = '1990-10-03' AND cnum > 2003));
```

Onum	Amt	Odate	Cnum	Snum
3001	18.69	1990-10-03	2008	1007
3003	767.19	1990-10-03	2001	1001
3005	5160.45	1990-10-03	2003	1002
3009	1713.23	1990-10-04	2002	1003
3007	75.75	1990-10-04	2004	1002
3008	4723.00	1990-10-05	2007	1001
3011	9891.88	1990-10-06	2006	1001

```
7 rows in set (0.00 sec)
```

5)

What will be the output of the following query?

Select \* from Orders

where NOT ((odate = '1990-10-03' OR snum > 1006) AND amt >= 1500);

```
D4_Vatsal_83889>SELECT *
-> FROM Orders
-> WHERE NOT ((odate = '1990-10-03' OR snum > 1006) AND amt >= 1500);
```

Onum	Amt	Odate	Cnum	Snum
3001	18.69	1990-10-03	2008	1007
3003	767.19	1990-10-03	2001	1001
3006	1098.96	1990-10-03	2008	1007
3009	1713.23	1990-10-04	2002	1003
3007	75.75	1990-10-04	2004	1002
3008	4723.00	1990-10-05	2007	1001
3010	1309.95	1990-10-03	2004	1002
3011	9891.88	1990-10-06	2006	1001

```
8 rows in set (0.00 sec)
```

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6)

What is a simpler way to write this query?

Select snum, sname, city, comm From Salespeople

(comm > .12 OR comm <.14);

Ans 6) Select \* from Salespeople where comm >0.12 OR comm <0.14;