Assignment –5 Relational and Logical Operators.

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

Ans--> select \* from orders where amt>1000;

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

Ans--> select Sname,city from salespeople where city='London' and comm>0.10;

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

Ans--> select \* from customers where rating>100 or city='Rome';

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

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

--> step 1: solve bracket (odate = '1990-10-03' AND cnum > 2003) ===>Equation-1

step 2: solve NOT NOT (Equation-1) ===> Equation-2

step 3: solve OR amt < 1000 OR Equation-2 ===> Final Answer

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

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 | 2006 | 1001

3010 | 1309.95 | 1990-10-06 | 2004 | 1002

3011 | 9891.88 | 1990-10-06 | 2006 | 1001

5) What will be the output of the following query?

Ans-->Select \* from Orders where NOT ((odate = '1990-10-03' OR snum >1006) AND amt >= 1500);

--> step 1: solve bracket (odate = '1990-10-03' OR snum >1006) ===>Equation-1

step 2: solve bracket (Equation-1 AND amt >= 1500) ===> Equation-2

step 3: solve NOT NOT (Equation-2) ===> Final Answer

Onum | Amt | Odate | Cnum | Snum

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

3001 | 18.69 | 1990-10-03 | 2008 | 1007

3003 | 767.19 | 1990-10-03 | 2001 | 1001

3006 | 1098.16 | 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 | 2006 | 1001

3010 | 1309.95 | 1990-10-06 | 2004 | 1002

3011 | 9891.88 | 1990-10-06 | 2006 | 1001

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6) What is a simpler way to write this query?

Ans-->Select snum, sname, city, comm From Salespeople where (comm > .12 OR comm <.14);

--> select \* from salespeople where (comm > .12 OR comm < .14);