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:

```
KD2-86675-Yashwant@>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  | 1098.16 | 1990-10-03 | 2008  | 1007  |
| 3009  | 1713.00 | 1990-10-04 | 2002  | 1003  |
| 3008  | 4723.00 | 1990-10-05 | 2006  | 1001  |
| 3010  | 1309.95 | 1990-10-06 | 2004  | 1002  |
| 3011  | 9891.88 | 1990-10-06 | 2006  | 1001  |
+-------+---------+------------+-------+-------+
7 rows in set (0.00 sec)
```

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

```
KD2-86675-Yashwant@>select Sname,City from salespeople where City='London' and Comm>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.

```
KD2-86675-Yashwant@>select * from customers where Rating >100 or City='Rome';
+-------+----------+-----------+---------+-------+
| Cnun  | Cname    | City      | Rating  | Sum   |
+-------+----------+-----------+---------+-------+
| 2002  | Giovanni | Rome      |    200  | 1003  |
| 2003  | Liu      | san jose  |    200  | 1002  |
| 2004  | Grass    | Berlin    |    300  | 1002  |
| 2008  | Cisneros | San Jose  |    300  | 1007  |
| 2009  | 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));

```
KD2-86675-Yashwant@>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  | 1713.00 | 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?

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

```
KD2-86675-Yashwant@>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 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.00 | 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 |
+------+---------+------------+------+------+
```

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

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

```
KD2-86675-Yashwant@>Select * from salespeople;
+------+---------+-----------+------+
| Snum | Sname   | City      | Comm |
+------+---------+-----------+------+
| 1001 | Peel    | London    | 0.12 |
| 1002 | Serres  | San jose  | 0.13 |
| 1004 | Motika  | London    | 0.11 |
| 1007 | Rifkin  | Bracelona | 0.15 |
| 1003 | Axelrod | New York  | 0.10 |
+------+---------+-----------+------+
5 rows in set (0.00 sec)
```