Assignment –5 Relational and Logical Operators.

1) Write a query that will give you all orders for more than Rs. 1,000.
Select * from orders
Where AMT > 1000;

```
D3_93025_Omkar>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  | 1713.23 | 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  |
+-------+---------+------------+-------+-------+
```

2) Write a query that will give you the names and cities of all salespeople in London with a commission above .10.
Select SNAME,CITY from salespeople
Where city = 'London' and Comm > .010;

```
D3_93025_Omkar>
D3_93025_Omkar>Select SNAME,CITY from salespeople
    -> Where city = 'London' and Comm > .010;
+---------+---------+
| 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.
Select * from Customers
Where rating > 100 and city = 'Rome';

```
D3_93025_Omkar>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 | 1004  |
+-------+----------+----------+--------+-------+
```

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: The query will return all rows that either have a lower amount (amt < 1000) or don't meet the specific date and customer number condition.

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);

```
D3_93025_Omkar>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 | 1713.23 | 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 |
+------+---------+------------+------+------+
```

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

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

Ans : Select snum, sname, city, comm From Salespeople;