Assignment –5

****************Relational and Logical Operators.*****************

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

```
W3_93236_Neha>select * from ORDERS where Amt> 1000;
+------+---------+------------+------+------+
| Onum | Amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 3002 | 1900.10 | 1990-03-10 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-03-10 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-03-10 | 2008 | 1007 |
| 3009 | 1713.13 | 1990-04-10 | 2002 | 1003 |
| 3008 | 4723.00 | 1990-05-10 | 1006 | 1001 |
| 3010 | 1309.95 | 1990-06-10 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-06-10 | 2006 | 1001 |
```

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

above .10.

```
W3_93236_Neha>select Sname,City from SALESPEOPLE where City='London'and Comm>.10;
+--------+--------+
| Sname  | City   |
+--------+--------+
| Peel   | London |
| Motika | London |
+--------+--------+
```

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

```
W3_93236_Neha>select * from CUSTOMERS where Rating>=100 or City='Rome';
+------+----------+----------+--------+------+
| Cnum | Cname    | City     | Rating | Snum |
+------+----------+----------+--------+------+
| 2001 | Hoffman  | London   |    100 | 1001 |
| 2002 | Giovanni | Rome     |    200 | 1003 |
| 2003 | Liu      | San Jose |    200 | 1002 |
| 2004 | Grass    | Berlin   |    300 | 1002 |
| 2006 | Clemens  | London   |    100 | 1001 |
| 2008 | Cesneros | San Jose |    300 | 1007 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
+------+----------+----------+--------+------+
7 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));

```
W3_93236_Neha>select * from ORDERS where (amt<1000 OR NOT (Odate='1990-10-03' AND Cnum>2003));
+------+---------+------------+------+------+
| Onum | Amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-03-10 | 2008 | 1007 |
| 3003 |  767.19 | 1990-03-10 | 2001 | 1001 |
| 3002 | 1900.10 | 1990-03-10 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-03-10 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-03-10 | 2008 | 1007 |
| 3009 | 1713.13 | 1990-04-10 | 2002 | 1003 |
| 1007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-05-10 | 1006 | 1001 |
| 3010 | 1309.95 | 1990-06-10 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-06-10 | 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);

```
W3_93236_Neha>Select * from ORDERS where NOT ((Odate='1990-10-03'OR Snum>1006)AND amt>=1500);
+------+---------+------------+------+------+
| Onum | Amt     | Odate      | Cnum | Snum |
+------+---------+------------+------+------+
| 3001 |   18.69 | 1990-03-10 | 2008 | 1007 |
| 3003 |  767.19 | 1990-03-10 | 2001 | 1001 |
| 3002 | 1900.10 | 1990-03-10 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-03-10 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-03-10 | 2008 | 1007 |
| 3009 | 1713.13 | 1990-04-10 | 2002 | 1003 |
| 1007 |   75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-05-10 | 1006 | 1001 |
| 3010 | 1309.95 | 1990-06-10 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-06-10 | 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

```
W3_93236_Neha>select * from SALESPEOPLE;
+------+---------+------------+------+
| Snum | Sname   | City       | Comm |
+------+---------+------------+------+
| 1001 | Peel    | London     | 0.12 |
| 1002 | Serres  | San Jose   | 0.13 |
| 1004 | Motika  | London     | 0.11 |
| 1007 | Riftin  | Barcelona  | 0.15 |
| 1003 | Axelrod | New work   | 0.10 |
+------+---------+------------+------+
```