Assignment –5 Relational and Logical Operators.

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

Query: SELECT * FROM ORDERS WHERE AMT > 100;

```
D3_92969_Dhananjay>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  |
+-------+---------+------------+-------+-------+
7 rows in set (0.01 sec)
```

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

Query : SELECT SNAME, CITY FROM SALESPEOPLE WHERE
CITY = 'London' AND COMM > .10 ;

```
D3_92969_Dhananjay>SELECT SNAME,  CITY FROM SALESPEOPLE WHERE CITY = "London" AND COMM > .10 ;
+--------+--------+
| SNAME  | CITY   |
+--------+--------+
| Peel   | London |
| Peel   | London |
| Motika | London |
+--------+--------+
3 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.

Query : select * from customers where rating>100 or city = 'Rome' ;

```
D3_92969_Dhananjay>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));

Solution :
It will print all the rows from orders table which are not in (date '1990-10-03' and whose cnum>2003), Or has amount < 1000.

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);

Solution :
It will print all the rows from orders table which are not in (date '1990-10-03' or whose snum>1006), Or has amount >= 1000.

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

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

Solution :

Select snum, sname, city, comm From Salespeople
Where between comm (.12 and .14);