Assignment – 5 Solution Relational and Logical Operators.

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

```
mysql> 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 | 9891.00 | 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.

```
mysql> 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.

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));
```

- Selects all columns from the orders table.
- Filters rows where amt is less than 1000.
- OR condition checks if the date is not '1990-10-03' or customer number (cnum) is ≤ 2003 .
- The NOT negates the condition inside it.
- Retrieves orders based on either amount, or specific date and customer number conditions.

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);
```

- Selects all columns from the orders table.
- Filters rows where a condition is not true (using NOT).
- The condition checks if odate = '1990-10-03' or snum > 1006.
- AND the amt \geq 1500.
- Retrieves rows where either the date, sales number, or amount conditions do not match.

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

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

```
mysql> select snum, sname, city, comm from salespeople
-> where comm between 0.12 and 0.14;
+----+----+
| snum | sname | city | comm |
+-----+-----+
| 1002 | Serres | San Jose | 0.13 |
+-----+------+
1 row in set (0.03 sec)
```

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