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:- select * from orders where atm>1000;

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

Ans: select Sname , city from salespeople where city ='london' and comm >0.10;

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

Ans:- select * from customers where rating<=100 and city='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));

```
mysql> 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  | 1713.23 | 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  |
+-------+---------+------------+-------+-------+
8 rows in set (0.01 sec)
```

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);

```
mysql> 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 |
+------+---------+------------+------+------+
8 rows in set (0.00 sec)
```

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 >0.12 or comm<0.
14);
+------+--------+-----------+------+
| snum | sname  | city      | comm |
+------+--------+-----------+------+
| 1001 | Peel   | London    | 0.12 |
| 1002 | Serres | San Jose  | 0.13 |
| 1004 | Motika | London    | 0.11 |
| 1007 | Rifkin | Barcelona | 0.15 |
| 1003 | Axelrod| New York  | 0.10 |
+------+--------+-----------+------+
5 rows in set (0.00 sec)
```