Assignment –5

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 > 1000.0;
+-------+---------+------------+-------+-------+
| 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.

```
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.

```
mysql> 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));

```
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 (0.00 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

Answer : select * from salespeople;