# *Assignment –5* Relational and Logical Operators.

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

**Ans:-**

**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 |**

**| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |**

**| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |**

**| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |**

**| 3011 | 9891.88 | 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.

**Ans:-**

**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.

**Ans:-**

**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 |**

**| 2007 | Pereira | Rome | 100 | 1004 |**

**| 2008 | Cisneros | San Jose | 300 | 1007 |**

**+------+----------+----------+--------+------+**

**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));

**Ans:-**

**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 |**

**| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |**

**| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |**

**| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |**

**| 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);

**Ans:-**

**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 |**

**| 3007 | 75.75 | 1990-10-04 | 2004 | 1002 |**

**| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |**

**| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |**

**| 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);

**Ans:-**

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

**+------+---------+-----------+------+**

**| snum | sname | city | comm |**

**+------+---------+-----------+------+**

**| 1001 | Peel | London | 0.12 |**

**| 1002 | Serres | San Jose | 0.13 |**

**| 1003 | Axelrod | New York | 0.10 |**

**| 1004 | Motika | London | 0.11 |**

**| 1007 | Rifkin | Barcelona | 0.15 |**

**+------+---------+-----------+------+**

**5 rows in set (0.00 sec)**