***Assignment –5* Relational and Logical Operators.**

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

select \* from orders where Amt > 1000;

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 | 1990-10-03 | 2002 | 1003 |

| 3008 | 4723.00 | 1990-10-03 | 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)

1. 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 (0.01 sec)

1. 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)

1. 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' an

d 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 | 1990-10-03 | 2002 | 1003 |

| 3007 | 75.75 | 1990-10-03 | 2004 | 1002 |

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

| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |

+------+---------+------------+------+------+

7 rows in set (0.01 sec)

1. 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 |

| 3007 | 75.75 | 1990-10-03 | 2004 | 1002 |

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

| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |

+------+---------+------------+------+------+

6 rows in set (0.01 sec)

1. 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 | SanJose | 0.13 |

+------+--------+---------+------+

1 row in set (0.01 sec)