## <u>Assignment –5 Relational and Logical Operators.</u>

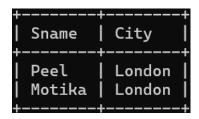
1) Write a query that will give you all orders for more than Rs. 1,000.

**Ans:** select \* from orders where Amt>1000;

| Onum   | <br>  Amt   | Odate  | Cnum   | Snum   |
|--|---|--|--|--|
| 3002<br>  3005<br>  3006<br>  3009<br>  3008<br>  3010<br>  3011 | 1900.10<br>  5160.45<br>  1098.16<br>  1713.23<br>  4723.00<br>  1309.95<br>  9891.88 | 03-0ct-1990<br>03-0ct-1990<br>03-0ct-1990<br>04-0ct-1990<br>05-0ct-1990<br>06-0ct-1990 | 2007<br>2003<br>2008<br>2002<br>2002<br>2006<br>2004 | 1004  <br>1002  <br>1007  <br>1003  <br>1001  <br>1002 |

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 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 |

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:

| Onum   | Amt   | Odate  | Cnum   | Snum   |
|--|---|--|--|--|
| ++<br>  3001  <br>  3003  <br>  3002  <br>  3005  <br>  3006  <br>  3009  <br>  3007  <br>  3010 | 18.69<br>767.19<br>1900.10<br>5160.45<br>1098.16<br>1713.23<br>75.75<br>4723.00<br>1309.95<br>9891.88 | 03-10-1990<br>03-10-1990<br>03-10-1990<br>03-10-1990<br>03-10-1990<br>04-10-1990<br>04-10-1990<br>05-10-1990<br>06-10-1990 | 2008<br>2001<br>2007<br>2003<br>2008<br>2002<br>2004<br>2004<br>2004 | 1007  <br>1001  <br>1004  <br>1002  <br>1007  <br>1003  <br>1002  <br>1001  <br>1001 |

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:

| 3001   18.69   03-10-199   3003   767.19   03-10-199   3002   1900.10   03-10-199   3005   5160.45   03-10-199   3006   1098.16   03-10-199   3007   75.75   04-10-199   3008   4723.00   05-10-199   3010   1309.95   06-10-199   3011   9891.88   06-10-199 | 90   2001   1001<br>90   2007   1004<br>90   2003   1002<br>90   2008   1007<br>90   2002   1003<br>90   2004   1002<br>90   2004   1001<br>90   2004   1002 |
|---|--|

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

Select snum, sname, city, comm From Salespeople

where (comm > .12 OR comm < .14);

**Ans:** Select \* from Salespeople where comm <.14;

| Snum   Sname   City   Comm  <br>++ | + | ·+          |             |          | ++<br>  C    |
|------------------------------------|---|-------------|-------------|----------|--------------|
| 1002                               | + | onum  <br>+ | Sname  <br> | City<br> | Comm  <br>++ |
| 1004   Motika   London   0.11      |   |             |             |          | !!           |
|                                    |   | :           |             |          | : :          |
|                                    |   | !           |             |          | : :          |