**ASSIGNMENT-5**

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

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

Solution:

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 | 1990-10-04 | 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 (0.00 sec)

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

Solution:

SELECT SNAME,CITY,COMM FROM SALESPEOPLE

WHERE COMM > '.10';

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

| SNAME | CITY | COMM |

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

| Peel | London | 0.12 |

| Serres | San Jose | 0.13 |

| Motika | London | 0.11 |

| Rifkin | Barcelona | 0.15 |

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

4 rows in set (0.00 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.

Solution:

mysql> SELECT \* FROM CUSTOMERS

-> WHERE RATING <= '100' OR CITY = 'ROME';

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

| Cnum | Cname | City | Rating | Snum |

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

| 2001 | Hoffman | London | 100 | 1001 |

| 2002 | Giovanni | Rome | 200 | 1003 |

| 2006 | Clemens | London | 100 | 1001 |

| 2007 | Pereira | Rome | 100 | 1004 |

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

4 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));

Solution:

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 3

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);

Solution:

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

| 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);

Solution:

SELECT SNUM,SNAME,CITY,COMM

FROM SALESPEOPLE

WHERE COMM NOT BETWEEN 0.12 AND 0.14;

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

| SNUM | SNAME | CITY | COMM |

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

| 1001 | Peel | London | 0.12 |

| 1004 | Motika | London | 0.11 |

| 1007 | Rifkin | Barcelona | 0.15 |

| 1003 | Axelrod | New York | 0.10 |

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

4 rows in set (0.00 sec)