**Assignment 5**

**Relational and Logical Operator**

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

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 | 1990-10-04 | 2002 | 1003 |

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

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

| 3011 | 9891.00 | 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' 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 | 9891.00 | 1990-10-06 | 2006 | 1001 |

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

8 rows in set (0.01 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 | 9891.00 | 1990-10-06 | 2006 | 1001 |

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

1. 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);

mysql> select snum, sname, city, comm from salespeople where comm between 0.12 and 0.14;

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

| snum | sname | city | comm |

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

| 1001 | Peel | London | 0.12 |

| 1002 | Serres | San Jose | 0.13 |

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

2 rows in set (0.01 sec)