

Assignment –5

Relational and Logical Operators.

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 | 9891.88 | 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.

```
mysql>
mysql>
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.

```
mysql>
mysql> SELECT *
      -> FROM CUSTOMERS
      -> WHERE Rating > 100 OR City = 'Rome';
```

| CNUM | CNAME | CITY | RATING | SUNUM |
|------|----------|----------|--------|-------|
| 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)

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));

```
mysql>
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 | 9891.88 | 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);

```
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 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```

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

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

```
SELECT Snum, Sname, City, Comm
FROM SALESPeOPLE
WHERE Comm > 0.12 AND Comm < 0.14;
```