

Assignment –5 Relational and Logical Operators.

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

Ans:-

```
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 |  
| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |  
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |  
| 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.

Ans:-

```
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.

Ans:-

```

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 |
| 2007 | Pereira  | Rome      | 100    | 1004 |
| 2008 | Cisneros | San Jose  | 300    | 1007 |
+-----+-----+-----+-----+-----+
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));

```

Ans:-

```
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 |
| 3007 | 75.75    | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00  | 1990-10-05 | 2006 | 1001 |
| 3009 | 1713.23  | 1990-10-04 | 2002 | 1003 |
| 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);
```

Ans:-

```
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 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 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);

```

Ans:-

```

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

```

```

+-----+-----+-----+-----+
| snum | sname   | city      | comm |
+-----+-----+-----+-----+
| 1001 | Peel    | London    | 0.12 |
| 1002 | Serres  | San Jose  | 0.13 |
| 1003 | Axelrod | New York  | 0.10 |
| 1004 | Motika  | London    | 0.11 |
| 1007 | Rifkin  | Barcelona | 0.15 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```