

## Assignment –5

### Relational and Logical operators

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- 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 (0.08 sec)

- 2) 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 (0.00 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> 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));
```

```
mysql> select * from orders
-> where NOT (amt < 1000 OR
-> NOT (odate='1990-10-03'
-> AND cnum > 2003));
```

Onum	amt	Odate	Cnum	Snum
3002	1900.10	1990-10-03	2007	1004
3006	1098.16	1990-10-03	2008	1007

2 rows in set (0.04 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);
```

```
Command Prompt - mysql -u X + v
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 (0.07 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);

```
mysql> SELECT snum,sname,city,comm
      -> FROM Salespeople
      -> WHERE (comm >0.12 OR comm < 0.14);
+-----+-----+-----+-----+
| snum | sname  | city    | comm |
+-----+-----+-----+-----+
| 1001 | Peel   | London  | 0.12 |
| 1002 | Serres | San Jose | 0.13 |
| 1004 | Motika | London  | 0.11 |
| 1007 | Rifkin | Barcelona | 0.15 |
| 1003 | Axelrod | New York | 0.10 |
+-----+-----+-----+-----+
5 rows in set (0.02 sec)

mysql> |
```