

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 (0.03 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 > .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 (rating <= 100 and 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)
```

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 (amt < 1000 OR NOT (odate = '1990-10-03' A
ND 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)
```

the output of the query is all columns from orders table where amount is less than thousand or where Cdate is equal to 1990-10-003 and Cnum is grater than 2003.. so output only gets 8 rows out of 10 .

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)

- Select Query select all column from orders Table where Rows are not odate as 1990-10-03 or snum is greater than 1006 and Amount is Greater than or equal to 1500;
- Its returns the 8 rows from the 10 rows of orders table. Which condition are satisfied

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 > .12 OR
comm <.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 (0.00 sec)

After simpler way -

```
mysql> select * from salespeople where comm not in (0.12 , 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 (0.00 sec)
```