

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
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

```
6 rows in set (0.05 sec)

mysql>
```

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 (0.05 sec)

mysql>
```

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 |
| 2008 | Cisneros | San Jose | 300    | 1007 |
| 2007 | Pereira  | Rome    | 100    | 1004 |
+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> _
```

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'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 (0.17 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

```
3 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);

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

snum	sname	city	comm
1002	Serres	San Jose	0.13

```
1 row in set (0.00 sec)
```