

Assignment –5 Relational and Logical Operators.

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

```
D4_89846_Srushti>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 | 2003 | 1003 |
| 3008 | 4723.00  | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95  | 1990-10-06 | 2004 | 1002 |
| 3011 | 9891.88  | 1990-01-06 | 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.

```
D4_89846_Srushti>select sname ,city from salesperson
-> where city='london' and comm>0.10;
+-----+-----+
| sname | city  |
+-----+-----+
| peel  | london |
| Motika | London |
+-----+-----+
2 rows in set (0.01 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.

```
D4_89846_Srushti>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 (0.01 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));
```

```
D4_89846_Srushti>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
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	1990-01-06	2006	1001

```
6 rows in set (0.03 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);
```

```
D4_89846_Srushti>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	2003	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	1990-01-06	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);

```
D4_89846_Srushti>select * from salesperson  
-> where comm not between 0.13 and 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)

```
D4_89846_Srushti>
```