

## Assignment –5

### Relational and Logical Operators.

Roll No: 87243

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

```
KD2-87243-kartik@>select * from orders
-> where
-> Amt > 1000;
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 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 | 1990-10-03 | 2002 | 1003 |
| 3008 | 4723.00 | 1990-10-03 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-03 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-03 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
8 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.

```
KD2-87243-kartik@>select sname, city from salespeople
-> where
-> city = "London" and Comm > .10;
+-----+-----+
| sname | city |
+-----+-----+
| Peel  | London |
| Motika | London |
+-----+-----+
2 rows in set (0.11 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.

```
KD2-87243-kartik@>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 (0.00 sec)
```

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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));

```
KD2-87243-kartik@>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	1990-10-03	2002	1003
3007	75.75	1990-10-03	2004	1002

```
5 rows in set (0.02 sec)

KD2-87243-kartik@>
```

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);

```
KD2-87243-kartik@>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	1990-10-03	2004	1002
3010	1309.95	1990-10-03	2004	1002

```
5 rows in set (0.01 sec)

KD2-87243-kartik@>
```

6) What is a simpler way to write this query?

Select snum, sname, city, comm From Salespeople

where (comm > .12 OR comm <.14);

```
KD2-87243-kartik@>select * from salespeople;
```

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)
```

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