

Assignment –5 Relational and Logical Operators.

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

Ans:

```
KD3_86676_Deependra@>select * from orders where Amt>1000;
+-----+-----+-----+-----+-----+
| Onum | Amt      | Odate      | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3002 | 1900.10  | 1990-08-03 | 2007 | 1004 |
| 3005 | 5160.45  | 1990-08-03 | 2003 | 1002 |
| 3006 | 1098.16  | 1990-08-03 | 2008 | 1007 |
| 3009 | 1713.23  | 1990-08-04 | 2002 | 1003 |
| 3008 | 4723.00  | 1990-08-05 | 2006 | 1001 |
| 3010 | 1309.95  | 1990-08-06 | 2004 | 1002 |
| 3011 | 9891.88  | 1990-08-06 | 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.

```
KD3_86676_Deependra@>select Sname, City from salespeople where Comm>.10;
+-----+-----+
| Sname | City      |
+-----+-----+
| peel  | London    |
| Serres| San jose  |
| Motika| London    |
| Rifkin| Barcelona |
+-----+-----+
4 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.

```
KD3_86676_Deependra@>select * from customers where rating>100 and City = 'Rome';
+-----+-----+-----+-----+-----+
| Cnum | Cname     | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni  | Rome | 200    | 1003 |
+-----+-----+-----+-----+-----+
1 row 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));

```
KD3_86676_Deependra@>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 (0.00 sec)
```

5) What will be the output of the following query?

Select * from Orders

```
KD3_86676_Deependra@>select * from Orders where NOT((Odate = '1990-10-03' OR Snum>1006)A
ND 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)
```

where NOT ((odate = '1990-10-03' OR snum >1006) AND amt >= 1500);

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

Select snum, sname, city, comm From Salespeople where (comm > .12 OR comm <.14);

```
KD3_86676_Deependra@>Select * from salespeople;
+-----+-----+-----+-----+
| Snum | Sname   | City      | Comm |
+-----+-----+-----+-----+
| 1001 | peel    | Lundon    | 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)
```