

**Assignment –5 Relational and Logical Operators.**

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

```
KD3_86927_Vivek@>select * from orders;
+-----+-----+-----+-----+-----+
| Onum | Amt   | Odate   | Cnum | Snum |
+-----+-----+-----+-----+-----+
| 3001 | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 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 |
| 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 |
+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

KD3_86927_Vivek@>SELECT Amt from orders
-> WHERE Amt > 1000.00;
+-----+
| Amt   |
+-----+
| 1900.10 |
| 5160.45 |
| 1098.16 |
| 1713.23 |
| 4723.00 |
| 1309.95 |
| 9891.88 |
+-----+
7 rows in set (0.00 sec)

KD3_86927_Vivek@>
```

- 2) Write a query that will give you the names and cities of all salespeople in London with a commission above .10.

```
KD3_86927_Vivek@>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)
```

```
KD3_86927_Vivek@>SELECT SNAME, CITY FROM SALESPeOPLE  
-> WHERE CITY = 'London' and COMM > 0.10;
```

SNAME	CITY
Peel	London
Motika	London

```
2 rows in set (0.00 sec)
```

```
KD3_86927_Vivek@>
```

- 3) Write a query on the Customers table whose output will exclude all customers with a rating  $\leq 100$ , unless they are located in Rome.

```
KD3_86927_Vivek@>SELECT * FROM CUSTOMERS;
```

Cnum	Cname	City	Rating	Snum
2001	Hoffman	London	100	1001
2002	Giovanni	Rome	200	1003
2003	Liu	San Jose	200	1002
2004	Grass	Berlin	300	1002
2006	Clemens	London	100	1001
2008	Cisneros	San Jose	300	1007
2007	Pereira	Rome	100	1004

7 rows in set (0.00 sec)

```
KD3_86927_Vivek@>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)

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_86927_Vivek@>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)

KD3_86927_Vivek@>
```

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);
```

```
KD3_86927_Vivek@>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)

KD3_86927_Vivek@>
```

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

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

```
KD3_86927_Vivek@>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)

KD3_86927_Vivek@>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 |
+-----+-----+-----+-----+
```