Assignment –5

Relational and Logical Operators.

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

Ans. Select * from orders where amt > 1000;

```
D2_92810_Chaitanya>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 |  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  |
+-------+---------+------------+-------+-------+
7 rows in set (0.01 sec)
```

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

Ans.

```
D2_92810_Chaitanya> Select sname, city from salespeople where comm > .10;
+--------+-----------+
| sname  | city      |
+--------+-----------+
| Peel   | London    |
| Serres | San Jose  |
| Motika | London    |
| Rifkin | Barcelona |
+--------+-----------+
4 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.

Ans.

```
D2_92810_Chaitanya>Select * from customers where rating > 100  or city = 'ro
me';
+-------+-----------+-----------+----------+--------+
| 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 (0.02 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));

```
D2_92810_Chaitanya>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 (0.01 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);

```
D2_92810_Chaitanya>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)
```

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

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

Ans. Select * from Salespeople;

```
D2_92810_Chaitanya>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)

D2_92810_Chaitanya> 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)
```