Assignment –5

Relational and Logical Operators.

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

Ans:-

```
KD3_86718_yagywalky@>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 | 1090-10-03 | 2008 | 1007 |
| 3009  | 1713.23 | 1090-10-04 | 2002 | 1003 |
| 3008  | 4723.00 | 1090-10-05 | 2006 | 1001 |
| 3010  | 1309.95 | 1090-10-06 | 2004 | 1002 |
| 3011  | 9891.88 | 1090-10-06 | 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:-

```
KD3_86718_yagywalky@>select Sname  as name, City from salespeople
    -> where city = 'london' and comm > 0.10;
+--------+--------+
| name   | City   |
+--------+--------+
| Peel   | London |
| Motika | London |
+--------+--------+
2 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_86718_yagywalky@>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_86718_yagywalky@>select * from orders
    -> where amt < 1000 OR !(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  |
| 3006  |  1098.16 | 1090-10-03 | 2008  | 1007  |
| 3009  |  1713.23 | 1090-10-04 | 2002  | 1003  |
| 3007  |    75.75 | 1090-10-04 | 2004  | 1002  |
| 3008  |  4723.00 | 1090-10-05 | 2006  | 1001  |
| 3010  |  1309.95 | 1090-10-06 | 2004  | 1002  |
| 3011  |  9891.88 | 1090-10-06 | 2006  | 1001  |
+-------+----------+------------+-------+-------+
9 rows in set, 1 warning (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);

```
KD3_86718_yagywalky@>select * from orders
    -> where !((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 | 1090-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1090-10-04 | 2002 | 1003 |
| 3007 |   75.75 | 1090-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1090-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1090-10-06 | 2004 | 1002 |
| 3011 | 9891.88 | 1090-10-06 | 2006 | 1001 |
+------+---------+------------+------+------+
8 rows in set, 1 warning (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<0.14);

   Ans :-

```
KD3_86718_yagywalky@>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)
```