SQL Assignment – 5

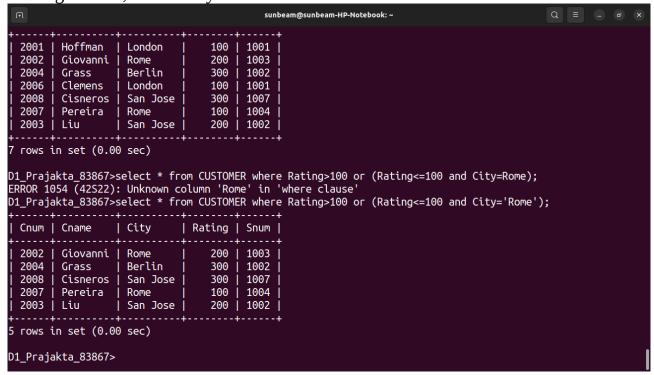Relational and Logical Operators.
1) Write a query that will give you all orders for more than Rs. 1,000.

```
sunbeam@sunbeam-HP-Notebook: ~

+------+---------+------------+------+------+
10 rows in set (0.00 sec)

D1_Prajakta_83867>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 (0.04 sec)

D1_Prajakta_83867>
```

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

```
sunbeam@sunbeam-HP-Notebook: ~

| 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 (0.04 sec)

D1_Prajakta_83867>select Sname,City from SALESPEOPLE where Comm>.10;
+--------+-----------+
| Sname  | City      |
+--------+-----------+
| Peel   | London    |
| Serres | San Jose  |
| Motika | London    |
| Rifkin | Barcelona |
+--------+-----------+
4 rows in set (0.05 sec)

D1_Prajakta_83867>
```

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

```
+------+----------+----------+--------+------+
| 2001 | Hoffman  | London   |    100 | 1001 |
| 2002 | Giovanni | Rome     |    200 | 1003 |
| 2004 | Grass    | Berlin   |    300 | 1002 |
| 2006 | Clemens  | London   |    100 | 1001 |
| 2008 | Cisneros | San Jose |    300 | 1007 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
| 2003 | Liu      | San Jose |    200 | 1002 |
+------+----------+----------+--------+------+
7 rows in set (0.00 sec)

D1_Prajakta_83867>select * from CUSTOMER where Rating>100 or (Rating<=100 and City=Rome);
ERROR 1054 (42S22): Unknown column 'Rome' in 'where clause'
D1_Prajakta_83867>select * from CUSTOMER where Rating>100 or (Rating<=100 and City='Rome');
+------+----------+----------+--------+------+
| Cnum | Cname    | City     | Rating | Snum |
+------+----------+----------+--------+------+
| 2002 | Giovanni | Rome     |    200 | 1003 |
| 2004 | Grass    | Berlin   |    300 | 1002 |
| 2008 | Cisneros | San Jose |    300 | 1007 |
| 2007 | Pereira  | Rome     |    100 | 1004 |
| 2003 | Liu      | San Jose |    200 | 1002 |
+------+----------+----------+--------+------+
5 rows in set (0.00 sec)

D1_Prajakta_83867>
```

4)
What will be the output from the following query?
Select * from Orders where (amt < 1000 ORNOT (odate = '1990-10-03' AND cnum > 2003));

```
ERROR 1146 (42S02): Table 'Exercise1.orders' doesn't exist
D1_Prajakta_83867>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 (0.06 sec)

D1_Prajakta_83867>
```

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);

```
| 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 (0.06 sec)

D1_Prajakta_83867>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)

D1_Prajakta_83867>
```

6)
What is a simpler way to write this query?
Select snum, sname, city, comm From Salespeople (comm > .12 OR comm <.14);

```
D1_Prajakta_83867>select * from SALESPEOPLE where Comm=.13;
+------+--------+----------+------+
| Snum | Sname  | City     | Comm |
+------+--------+----------+------+
| 1002 | Serres | San Jose | 0.13 |
+------+--------+----------+------+
1 row in set (0.20 sec)

D1_Prajakta_83867>
```