***Assignment – 13***

**Using the UNION clause.**

1. Create a union of two queries that shows the names, cities, and ratings of all customers. Those with rating of 200 or greater will also have the words “High Rating”, while the others will have the words “Low Rating”.

**Ans :-**

**mysql> SELECT Cname, City, Rating, 'High Rating' AS RatingLabel**

**-> FROM customers**

**-> WHERE Rating >= 200**

**->**

**-> UNION**

**->**

**-> SELECT Cname, City, Rating, 'Low Rating' AS RatingLabel**

**-> FROM customers**

**-> WHERE Rating < 200;**

**+----------+----------+--------+-------------+**

**| Cname | City | Rating | RatingLabel |**

**+----------+----------+--------+-------------+**

**| Neha | Mumbai | 200 | High Rating |**

**| Isha | Pune | 250 | High Rating |**

**| Anil | Chennai | 300 | High Rating |**

**| Giovanni | Rome | 200 | High Rating |**

**| Liu | San Jose | 200 | High Rating |**

**| Grass | Berlin | 300 | High Rating |**

**| Cisneros | San Jose | 300 | High Rating |**

**| Rahul | Pune | 100 | Low Rating |**

**| Karan | Delhi | 150 | Low Rating |**

**| Hoffman | London | 100 | Low Rating |**

**| Clemens | London | 100 | Low Rating |**

**| Pereira | Rome | 100 | Low Rating |**

**+----------+----------+--------+-------------+**

1. Write a command that produces the name and number of each salesperson and each customer with more than one current order. Put the results in alphabetical order.

**Ans :**

**mysql> -- Customers with more than one order**

**Query OK, 0 rows affected (0.00 sec)**

**mysql> SELECT c.Cname AS Name, c.Cnum AS Number**

**-> FROM customers c**

**-> JOIN (**

**-> SELECT Cnum**

**-> FROM orders**

**-> GROUP BY Cnum**

**-> HAVING COUNT(\*) > 1**

**-> ) AS multi\_cust ON c.Cnum = multi\_cust.Cnum**

**->**

**-> UNION**

**->**

**-> -- Salespeople with more than one order**

**-> SELECT s.Sname AS Name, s.Snum AS Number**

**-> FROM salespeople s**

**-> JOIN (**

**-> SELECT Snum**

**-> FROM orders**

**-> GROUP BY Snum**

**-> HAVING COUNT(\*) > 1**

**-> ) AS multi\_sales ON s.Snum = multi\_sales.Snum**

**->**

**-> ORDER BY Name;**

**+----------+--------+**

**| Name | Number |**

**+----------+--------+**

**| Amit | 1001 |**

**| Cisneros | 2008 |**

**| Clemens | 2006 |**

**| Grass | 2004 |**

**| Isha | 2004 |**

**| Peel | 1001 |**

**| Rifkin | 1007 |**

**| Serres | 1002 |**

**| Sneha | 1002 |**

**+----------+--------+**

**ANS OF 3RD ::**

**mysql> SELECT s.Snum**

**-> FROM salespeople s**

**-> WHERE s.City = 'San Jose'**

**->**

**-> UNION**

**->**

**-> -- Second query: Customers in San Jose**

**-> SELECT c.Cnum**

**-> FROM customers c**

**-> WHERE c.City = 'San Jose'**

**->**

**-> UNION ALL**

**->**

**-> -- Third query: Orders on October 3**

**-> SELECT o.Onum**

**-> FROM orders o**

**-> WHERE o.Odate = '1990-10-03';**

**+------+**

**| Snum |**

**+------+**

**| 1002 |**

**| 2003 |**

**| 2008 |**

**| 3001 |**

**| 3003 |**

**| 3002 |**

**| 3005 |**

**| 3006 |**

**+------+**

1. Form a union of three queries. Have the first select the snums of all salespeople in San Jose; the second, the cnums of all customers in San Jose; and the third the onums of all orders on October 3. Retain duplicates between the last two queries but eliminate any redundancies between either of them and the first.

(Note: in the sample tables as given, there would be no such redundancy. This is besides the point.)