

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”.

ANSWER÷

```
mysql> SELECT Cname, City, Rating, 'High Rating' AS  
Rating_Status  
-> FROM customers  
-> WHERE Rating >= 200  
-> UNION  
-> SELECT Cname, City, Rating, 'Low Rating' AS Rating_Status  
-> FROM customers  
-> WHERE Rating < 200;
```

Cname	City	Rating	Rating_Status
Giovanni	Rome	200	High Rating
Liu	San Jose	200	High Rating
Grass	Berlin	300	High Rating
Cisneros	San Jose	300	High Rating
Bob	London	200	High Rating
Carol	Paris	300	High Rating
Eve	Berlin	250	High Rating
Cisneros	New York	5	Low Rating
Serres	London	4	Low Rating
Brown	Chicago	3	Low Rating
Johnson	London	4	Low Rating
Williams	Paris	6	Low Rating
Davis	London	5	Low Rating
John Doe	New York	5	Low Rating
Jane Smith	Chicago	4	Low Rating
Sam Brown	Los Angeles	3	Low Rating
Lucy Green	Chicago	5	Low Rating
Smith	London	3	Low Rating
Johnson	Paris	4	Low Rating
Williams	London	5	Low Rating
Brown	New York	2	Low Rating
Taylor	Berlin	6	Low Rating
Alice	London	5	Low Rating
Bob	London	4	Low Rating
Charlie	Paris	3	Low Rating

Hoffman	London	100	Low Rating
Clemens	London	100	Low Rating
Pereira	Rome	100	Low Rating
Alice	New York	100	Low Rating
Dan	Rome	150	Low Rating

30 rows in set (0.00 sec)

2) 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.

ANSWER÷

```
mysql> SELECT s.Sname AS Name, s.Snum AS Number
-> FROM salespeople s
-> JOIN orders o ON s.Snum = o.Snum
-> GROUP BY s.Snum
-> HAVING COUNT(o.Onum) > 1
-> UNION
-> SELECT c.Cname AS Name, c.Cnum AS Number
-> FROM customers c
-> JOIN orders o ON c.Cnum = o.Cnum
-> GROUP BY c.Cnum
-> HAVING COUNT(o.Onum) > 1
-> ORDER BY Name;
```

Name	Number
Alice	2
Bob	3
Cisneros	2008
Clemens	2006
Grass	2004
John	1
John Doe	204
Peel	1001
Rifkin	1007
Serres	1002

10 rows in set (0.00 sec)

3) 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.)

ANSWER+

```
mysql> SELECT Snum
      -> FROM salespeople
      -> WHERE City = 'San Jose'
      -> UNION
      -> SELECT Cnum
      -> FROM customers
      -> WHERE City = 'San Jose'
      -> UNION ALL
      -> SELECT Onum
      -> FROM orders
      -> WHERE Odate = '2024-10-03';
```

```
+-----+
| Snum |
+-----+
| 1002 |
| 2003 |
| 2008 |
+-----+
```

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