

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:

```
SELECT cname, city, rating, 'High Rating' AS rating_description
-> FROM Customers
-> WHERE rating >= 200
-> UNION
-> SELECT cname, city, rating, 'Low Rating' AS rating_description
-> FROM Customers
-> WHERE rating < 200;
```

```
mysql> SELECT cname, city, rating, 'High Rating' AS rating_description
-> FROM Customers
-> WHERE rating >= 200
-> UNION
-> SELECT cname, city, rating, 'Low Rating' AS rating_description
-> FROM Customers
-> WHERE rating < 200;
```

cname	city	rating	rating_description
Bob	San Jose	200	High Rating
Charlie	Chicago	250	High Rating
Alice	New York	150	Low Rating

3 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.

Ans:

```
SELECT sname, snum
FROM Salespeople
WHERE snum IN (SELECT snum
FROM Orders
GROUP BY snum
HAVING COUNT(onum) > 1)
UNION
SELECT cname, cnum
FROM Customers
WHERE cnum IN (SELECT cnum
FROM Orders
GROUP BY cnum
HAVING COUNT(onum) > 1)
```

ORDER BY sname, cname;

```
mysql> SELECT sname, snum
-> FROM Salespeople
-> WHERE snum IN (SELECT snum
-> FROM Orders
-> GROUP BY snum
-> HAVING COUNT(onum) > 1)
-> UNION
-> SELECT cname, cnum
-> FROM Customers
-> WHERE cnum IN (SELECT cnum
-> FROM Orders
-> GROUP BY cnum
-> HAVING COUNT(onum) > 1)
-> ORDER BY sname, cname;
```

- 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.)

Ans:

```
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 = '2023-10-03'
AND onum NOT IN (SELECT onum
FROM Salespeople
WHERE city = 'San Jose')
UNION
SELECT onum
FROM Customers
```

WHERE city = 'San Jose');

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