

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”.

```
KD3_87023_Abhishek@>SELECT
->  cname,
->  city,
->  rating,
->  'High Rating' AS rating_levels
-> FROM customers
-> WHERE
->  rating >= 200
-> UNION
-> SELECT
->  cname,
->  city,
->  rating,
->  'Low Rating' AS rating_levels
-> FROM customers
-> WHERE
->  rating < 200;
+-----+-----+-----+-----+
| cname | city | rating | rating_levels |
+-----+-----+-----+-----+
| Giovanni | Rome | 200 | High Rating |
| Liu | San Jose | 200 | High Rating |
| Grass | Berlin | 300 | High Rating |
| Cisneros | San Jose | 300 | High Rating |
| Hoffman | London | 100 | Low Rating |
| Clemens | London | 100 | Low Rating |
| Pereira | Rome | 100 | Low Rating |
+-----+-----+-----+-----+
7 rows in set (0.01 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.

```
KD3_87023_Abhishek@>SELECT sname, salespeople.snum, customers.cnum, cname
-> FROM orders, customers, salespeople
-> WHERE orders.cnum = customers.cnum
-> AND orders.snum = salespeople.snum
-> GROUP BY salespeople.snum, sname, customers.cnum, cname
-> HAVING COUNT(orders.onum) > 1
-> ORDER BY sname;
+-----+-----+-----+-----+
| sname | snum | cnum | cname |
+-----+-----+-----+-----+
| Peel | 1001 | 2006 | Clemens |
| Rifkin | 1007 | 2008 | Cisneros |
| Serres | 1002 | 2004 | Grass |
+-----+-----+-----+-----+
rows in set (0.01 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.

```
KD3_87023_Abhishek@>(select snum as num from salespeople where city='San Jose')  
-> UNION  
-> (select cnum as num from customers where city='San Jose')  
-> UNION  
-> (select onum as num from orders where odate='1990-10-03');
```

```
+-----+  
| num |  
+-----+  
| 1002 |  
| 2003 |  
| 2008 |  
| 3003 |  
| 3002 |  
| 3005 |  
| 3006 |  
| 3001 |
```

```
+-----+  
8 rows in set (0.00 sec)
```