Lab Assignment 5

```
User@PC-TL2020 e:\sql
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.4.24-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use Bank;
Database changed
MariaDB [Bank]> SELECT customer_name, B.loan_number FROM customer C, borrower B, loan L WHERE C.customer_id = B.customer_id AND L.loan_number = B.loan_number AND L.branch_name = "Downtown";
+---------------+-------------+
| customer_name | loan_number |
+---------------+-------------+
| Johnson       | L-14        |
| Jones         | L-17        |
| Williams      | L-17        |
+---------------+-------------+
3 rows in set (0.000 sec)

MariaDB [Bank]>
```

```
MariaDB [Bank]> Bye

User@PC-TL2020 e:\sql
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.24-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use Bank;
Database changed
MariaDB [Bank]> SELECT C1.customer_name AS Customer1, C2.customer_name AS Customer2, C1.customer_city AS City FROM customer C1, customer C2 WHERE C1.customer_city = C2.customer_city AND C1.customer_name != C2.customer_name GROUP BY City;

+-----------+-----------+-----------+
| Customer1 | Customer2 | City      |
+-----------+-----------+-----------+
| Hayes     | Jones     | Harrison  |
| Adams     | Lindsay   | Pittsfield|
| Curry     | Smith     | Rye       |
| Green     | Turner    | Stamford  |
+-----------+-----------+-----------+
4 rows in set (0.054 sec)

MariaDB [Bank]> SELECT branch_name, SUM(balance * 0.04) AS total_interest FROM account GROUP BY branch_name;

+-------------+----------------+
| branch_name | total_interest |
+-------------+----------------+
| Brighton    |          66.00 |
| Downtown    |          20.00 |
| Mianus      |          28.00 |
| Perryridge  |          16.00 |
| Redwood     |          28.00 |
| Round Hill  |          14.00 |
+-------------+----------------+
6 rows in set (0.016 sec)

MariaDB [Bank]> SELECT A.account_number, B.branch_city, MAX(A.balance) AS highest_balances FROM account A, branch B WHERE A.branch_name = B.branch_name GROUP BY B.branch_city;

+----------------+-------------+------------------+
| account_number | branch_city | highest_balances |
+----------------+-------------+------------------+
| A-101          | Brooklyn    |              900 |
| A-102          | Horseneck   |              700 |
| A-222          | Palo Alto   |              700 |
+----------------+-------------+------------------+
3 rows in set (0.001 sec)

MariaDB [Bank]>
```
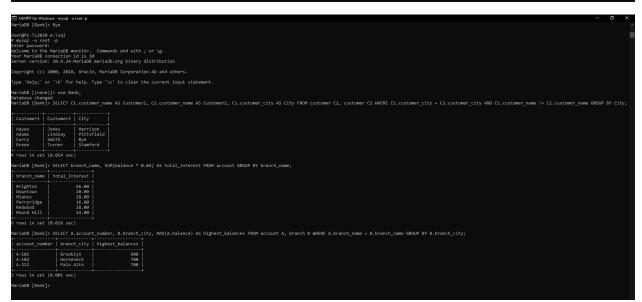
```
XAMPP for Windows - mysql  -u root -p

User@PC-TL2020 e:\sql
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 11
Server version: 10.4.24-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use Bank;
Database changed
MariaDB [Bank]> SELECT L.loan_number, L.amount, customer_name FROM customer C, borrower B, loan L WHERE C.customer_id = B.customer_id AND L.loan_number = B.loan_number ORDER BY L.amount DESC, L.loan_number ASC LIMIT 5;
+-------------+--------+---------------+
| loan_number | amount | customer_name |
+-------------+--------+---------------+
| L-23        | 2000   | Smith         |
| L-14        | 1500   | Johnson       |
| L-15        | 1500   | Hayes         |
| L-16        | 1300   | Adams         |
| L-17        | 1000   | Jones         |
+-------------+--------+---------------+
5 rows in set (0.000 sec)

MariaDB [Bank]> SELECT customer_name FROM customer C, depositor D, account A WHERE C.customer_id = D.customer_id AND A.account_number = D.account_number AND A.branch_name = "Perryridge" AND C.customer_id IN (SELECT C.customer_id FROM customer C, borrower B, loan L WHERE C.customer_id = B.customer_id AND L.loan_number = B.loan_number AND L.branch_name = "Perryridge");
+---------------+
| customer_name |
+---------------+
| Hayes         |
+---------------+
1 row in set (0.002 sec)

MariaDB [Bank]>
```

```
XAMPP for Windows - mysql  -u root -p

MariaDB [Bank]> Bye

User@PC-TL2020 e:\sql
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 13
Server version: 10.4.24-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use Bank;
Database changed
MariaDB [Bank]> SELECT customer_name, SUM(L.amount) AS total_loan_amount FROM loan L, borrower B, customer C WHERE B.loan_number = L.loan_number AND C.customer_id = B.customer_id GROUP BY C.customer_id HAVING COUNT(C.customer_id) = 2;
+---------------+-------------------+
| customer_name | total_loan_amount |
+---------------+-------------------+
| Smith         |              2900 |
+---------------+-------------------+
1 row in set (0.000 sec)

MariaDB [Bank]>
```