```
Setting environment for using XAMPP for Windows.
rauf@RAUFBISWAS c:\xampp
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.32-MariaDB mariadb.org binary distribution

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

MariaDB [(none)]>
```

Command:

- 1. mysql -u root -p
- 2. SHOW DATABASES;
- 3. CREATE DATABASE BANK_22201782;
- 4. USE BANK_222201782;

customer.customer_id;

Answers of the queries:

1. SELECT customer.customer_name, loan.loan_number FROM
 borrower
 JOIN loan ON borrower.loan_number = loan.loan_number
 AND loan.branch_name = 'Downtown'
 JOIN customer ON borrower.customer_id =

2. SELECT c1.customer_name AS Customer1, c2.customer_name AS
 Customer2, c1.customer_city AS City FROM customer c1
 JOIN customer c2 ON c1.customer_city = c2.customer_city
 AND c1.customer_id < c2.customer_id;</pre>

```
fariaDB [BANK_22201782]> SELECT c1.customer_name AS Customer1, c2.customer_name AS Customer2, c1.customer_city AS City FROM customer c1
    > JOIN customer c2 ON c1.customer_city = c2.customer_city
   -> AND c1.customer_id < c2.customer_id;
 Customer1 | Customer2 | City
 Jones
                          Harrison
              Hayes
 Smith
             Curry
                         Rye
Pittsfield
              Adams
 Lindsav
 Turner
             Green
                          Stamford
4 rows in set (0.001 sec)
```

3. SELECT account.branch_name AS Branch_name,
 SUM(account.balance * 0.04) AS Total_Interest
 FROM account GROUP BY account.branch_name;

```
|ariaDB [BANK_22201782]> SELECT account.branch_name AS Branch_name, SUM(account.balance * 0.04) AS Total_Interest
   -> FROM account GROUP BY account.branch_name;
 Branch_name | Total_Interest |
 Brighton
                         66.00
                         20.00
  Downtown
  Mianus
                         28.00
 Perryridge
                         16.00
 Redwood
                         28.00
 Round Hill
                         14.00
6 rows in set (0.000 sec)
```

4. SELECT acc.account_number, acc.balance, b.branch_city FROM
 account acc
 INNER JOIN branch b ON acc.branch_name = b.branch_name
 WHERE acc.balance = (
 SELECT MAX(acc2.balance) FROM account acc2
 INNER JOIN branch b2 ON acc2.branch_name = b2.branch_name
 WHERE b2.branch_city = b.branch_city
)

ORDER BY b.branch city;

```
MariaDB [BANK_22201782]> SELECT acc.account_number, acc.balance, b.branch_city FROM account acc
   -> INNER JOIN branch b ON acc.branch_name = b.branch_name
   -> WHERE acc.balance = (
   -> SELECT MAX(acc2.balance) FROM account acc2
   -> INNER JOIN branch b2 ON acc2.branch_name = b2.branch_name
   -> WHERE b2.branch_city = b.branch_city
   -> )
   -> ORDER BY b.branch_city;
 account_number | balance | branch_city |
  A-201
                       900 l
                             Brooklyn
  A-215
                       700
                             Horseneck
  A-222
                       700 |
                             Palo Alto
3 rows in set (0.001 sec)
```

```
5. SELECT * FROM (
    SELECT loan.loan_number, amount, customer_name FROM loan
    INNER JOIN borrower ON loan.loan_number =
    borrower.loan_number
    INNER JOIN customer ON customer.customer_id =
    borrower.customer_id
    order BY amount DESC limit 5
    )
    AS table1 ORDER BY amount, loan_number DESC;
```

```
MariaDB [BANK_22201782] > SELECT * FROM (
   -> SELECT loan.loan_number, amount, customer_name FROM loan
   -> INNER JOIN borrower ON loan.loan_number = borrower.loan_number
   -> INNER JOIN customer ON customer.customer_id = borrower.customer_id
   -> order BY amount DESC limit 5
    -> AS table1 ORDER BY amount, loan_number DESC;
 loan_number | amount | customer_name
 L-17
                  1000 | Jones
 L-16
                  1300 | Adams
 L-15
                  1500 |
                        Haves
 L-14
                  1500 l
                        Johnson
                  2000 | Smith
 L-23
5 rows in set (0.001 sec)
```

6. SELECT DISTINCT c.customer_name FROM customer c
 INNER JOIN depositor d ON c.customer_id = d.customer_id
 INNER JOIN account acc ON d.account_number =
 acc.account_number
 INNER JOIN borrower brr ON c.customer_id = brr.customer_id
 INNER JOIN loan l ON brr.loan_number = l.loan_number
 AND l.branch_name = acc.branch_name
 WHERE acc.branch name = 'Perryridge';

```
7. SELECT c.customer_name, SUM(l.amount) AS total_loan FROM
    customer c
    JOIN borrower brr ON c.customer_id = brr.customer_id
    JOIN loan l ON brr.loan_number = l.loan_number
    WHERE c.customer_id IN (
    SELECT brr2.customer_id FROM borrower brr2 GROUP BY
    brr2.customer_id HAVING COUNT(*) >= 2
    )
    GROUP BY c.customer_id ORDER BY total_loan DESC;
iaDB [BANK_22201782]> SELECT c.customer_name, SUM(l.amount) AS total_loan FROM customer c
```