# LAB3

Name: Habibun Nabi Hemel

ID:22241042

Section: 10

SELECT c.customer name, l.loan number

FROM customer c

JOIN borrower b ON c.customer\_id = b.customer\_id JOIN loan l ON b.loan\_number = l.loan\_number WHERE l.branch name= 'Downtown';

## Task 2

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;

```
MariaDB [Bank]> SELECT c1.customer name AS Customer1, c2.customer name AS Customer2,
    -> c1.customer_city as City FROM customer c1, customer c2
    -> WHERE cl.customer city = c2.customer city AND cl.customer name != c2.customer name;
 Customer1 | Customer2 | City
              Jones
                          Harrison
 Hayes
 Curry
              Smith
                          Rye
 Jones
              Hayes
                          Harrison
 Smith
              Curry
                          Rye
                          Pittsfield
 Adams
              Lindsay
              Turner
                          Stamford
 Green
 Lindsay
              Adams
                          Pittsfield
                          Stamford
 Turner
              Green
 rows in set (0.001 sec)
```

SELECT a.branch\_name as Branch\_name, SUM(a.balance \* 0.04) as Total\_Interest

FROM account a GROUP BY a.branch name;

```
ariang [Bank]> Seleci a.branch name as Branch name
   -> SUM(a.balance * 0.04) as Total Interest
   -> FROM account a
   -> GROUP BY a.branch name;
 Branch name | Total Interest
 Brighton
                         66.00
 Downtown
                         20.00
                         28.00
 Mianus
 Perryridge
                         16.00
 Redwood
                         28.00
 Round Hill
                         14.00
```

```
SELECT b.branch_city, a.account_number, a.balance FROM account a

JOIN branch b ON a.branch_name = b.branch_name

WHERE (b.branch_city, a.balance) IN (

SELECT branch_city, MAX(balance)

FROM branch b

JOIN account a ON b.branch_name = a.branch_name

GROUP BY branch city);
```

```
MariaDB [Bank]> SELECT b.branch city, a.account number, a.balance
    -> FROM account a
    -> JOIN branch b ON a.branch name = b.branch name
    -> WHERE (b.branch_city, a.balance) IN (
    -> SELECT branch city, MAX(balance)
    -> FROM branch b
    -> JOIN account a ON b.branch name = a.branch name
    -> GROUP BY branch city);
  branch city | account number | balance
  Brooklyn
                A-201
                                      900
  Horseneck
                A-215
                                      700
  Palo Alto
              A-222
                                      700
3 rows in set (0.001 sec)
```

## Task 5

select 1.loan\_number, 1.amount as loan\_amount, c.customer\_name FROM loan 1

```
JOIN borrower b ON l.loan_number = b.loan_number
JOIN customer c ON b.customer_id = c.customer_id
ORDER BY l.amount ASC, l.loan_number DESC
LIMIT 5;
```

```
MariaDB [Bank]> SELECT l.loan number, l.amount as loan amount, c.customer name
    -> FROM loan l
    -> JOIN borrower b ON l.loan number = b.loan number
    -> JOIN customer c ON b.customer id = c.customer id
    -> ORDER BY l.amount ASC, l.loan number DESC
    -> LIMIT 5:
 loan number | loan amount | customer name
                        500 I
                              Curry
 L-11
                       900
                              Smith
                       1000
                              Jones
 L-17
                       1000
                              Williams
 L-17
  L-16
                       1300
                              Adams
 rows in set (0.001 sec)
```

```
select DISTINCT c.customer_name
From customer c
JOIN depositor d ON c.customer_id = d.customer_id
JOIN account a ON d.account_number = a.account_number
JOIN borrower b ON c.customer_id = b.customer_id
JOIN loan 1 ON b.loan_number = 1.loan_number
JOIN branch br ON a.branch_name = br.branch_name
WHERE br.branch_name = 'Perryridge';
```

SELECT c.customer\_name, SUM(l.amount) as total\_loan

```
FROM customer c
JOIN borrower b ON c.customer_id = b.customer_id
JOIN loan l ON b.loan_number = l.loan_number
GROUP BY c.customer_id, c.customer_name
HAVING COUNT(b.loan_number) >= 2;
```