

Creating Tables:

```
MariaDB [Bank]> select * from customer;
```

| customer_id | customer_name | customer_street | customer_city |
|-------------|---------------|-----------------|---------------|
| C-101 | Jones | Main | Harrison |
| C-201 | Smith | North | Rye |
| C-211 | Hayes | Main | Harrison |
| C-212 | Curry | North | Rye |
| C-215 | Lindsay | Park | Pittsfield |
| C-220 | Turner | Putnam | Stamford |
| C-222 | Williams | Nassau | Princeton |
| C-225 | Adams | Spring | Pittsfield |
| C-226 | Johnson | Alma | Palo Alto |
| C-233 | Glenn | Sand Hill | Woodside |
| C-234 | Brooks | Senator | Brooklyn |
| C-255 | Green | Walnut | Stamford |

```
12 rows in set (0.011 sec)
```

```
MariaDB [Bank]> select*from branch;
```

| branch_name | branch_city | assets |
|-------------|-------------|---------|
| Brighton | Brooklyn | 7100000 |
| Downtown | Brooklyn | 9000000 |
| Mianus | Horseneck | 400000 |
| North Town | Rye | 3700000 |
| Perryridge | Horseneck | 1700000 |
| Pownal | Bennington | 300000 |
| Redwood | Palo Alto | 2100000 |
| Round Hill | Horseneck | 8000000 |

```
8 rows in set (0.000 sec)
```

```
MariaDB [Bank]> select * from account;
```

| branch_name | account_number | balance |
|-------------|----------------|---------|
| Downtown | A-101 | 500 |
| Perryridge | A-102 | 400 |
| Brighton | A-201 | 900 |
| Mianus | A-215 | 700 |
| Brighton | A-217 | 750 |
| Redwood | A-222 | 700 |
| Round Hill | A-305 | 350 |

```
7 rows in set (0.000 sec)
```

```
MariaDB [Bank]> select * from loan;
```

| loan_number | branch_name | amount |
|-------------|-------------|--------|
| L-11 | Round Hill | 900 |
| L-14 | Downtown | 1500 |
| L-15 | Perryridge | 1500 |
| L-16 | Perryridge | 1300 |
| L-17 | Downtown | 1000 |
| L-23 | Redwood | 2000 |
| L-93 | Mianus | 500 |

```
7 rows in set (0.000 sec)
```

```
MariaDB [Bank]> select * from depositor;
```

| customer_id | account_number |
|-------------|----------------|
| C-101 | A-217 |
| C-201 | A-215 |
| C-211 | A-102 |
| C-215 | A-222 |
| C-220 | A-305 |
| C-226 | A-101 |
| C-226 | A-201 |

```
7 rows in set (0.000 sec)
```

```
MariaDB [Bank]> select * from borrower;
```

| customer_id | loan_number |
|-------------|-------------|
| C-101 | L-17 |
| C-201 | L-11 |
| C-201 | L-23 |
| C-211 | L-15 |
| C-212 | L-93 |
| C-222 | L-17 |
| C-225 | L-16 |
| C-226 | L-14 |

```
8 rows in set (0.000 sec)
```

```
MariaDB [Bank]>
```

TASK-1

select customer.customer_name, loan.loan_number from customer inner join borrower on borrower.customer_id = customer.customer_id inner join loan on loan.loan_number = borrower.loan_number where loan.branch_name = "Downtown";

```
MariaDB [Bank]> select customer.customer_name, loan.loan_number from customer inner join borrower on borrower.customer_id = customer.customer_id inner join loan on loan.loan_number = borrower.loan_number where loan.branch_name = "Downtown";
```

| customer_name | loan_number |
|---------------|-------------|
| Johnson | L-14 |
| Jones | L-17 |
| Williams | L-17 |

```
3 rows in set (0.001 sec)
```

MariaDB [Bank]>

TASK-2

select customer1.customer_name as Customer1, customer2.customer_name as Customer2, customer1.customer_city as City from customer customer1 inner join customer customer2 on customer1.customer_city = customer2.customer_city and customer1.customer_name != customer2.customer_name group by customer1.customer_city;

```
MariaDB [Bank]> select customer1.customer_name as Customer1, customer2.customer_name as Customer2, customer1.customer_city as City from customer customer1 INNER JOIN customer customer2 on customer1.customer_city = customer2.customer_city and customer1.customer_name != customer2.customer_name group by customer1.customer_city;
```

| Customer1 | Customer2 | City |
|-----------|-----------|------------|
| Hayes | Jones | Harrison |
| Adams | Lindsay | Pittsfield |
| Curry | Smith | Rye |
| Green | Turner | Stamford |

```
4 rows in set (0.001 sec)
```

TASK-3

select branch_name, sum(balance * 0.04) as total_interest from account group by branch_name;

```
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 (0.001 sec)
```

TASK-4

select branch.branch_city, account.account_number, max(account.balance) as highest_balance
from account inner join branch on account.branch_name = branch.branch_name group by
branch.branch_city;

```
MariaDB [Bank]> select branch.branch_city, account.account_number, max(account.balance) as highest_balance from account inner join branch on account.branch_name = branch.branch_name group by branch.branch_city;
+-----+-----+-----+
| branch_city | account_number | highest_balance |
+-----+-----+-----+
| Brooklyn   | A-101          | 900             |
| Horseneck  | A-102          | 700             |
| Palo Alto  | A-222          | 700             |
+-----+-----+-----+
3 rows in set (0.001 sec)
```

TASK-5

select loan.loan_number, loan.amount, customer.customer_name from customer inner join
borrower on customer.customer_id = borrower.customer_id inner join loan on loan.loan_number
= borrower.loan_number order by loan.amount desc limit 5;

```
MariaDB [Bank]> select loan.loan_number, loan.amount, customer.customer_name from customer inner join borrower on customer.customer_id = borrower.customer_id inner join loan on loan.loan_number = borrower.loan_number order by loan.amount desc 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 (0.001 sec)
```

TASK-6

select customer.customer_name from customer inner join borrower on customer.customer_id =
borrower.customer_id inner join depositor on customer.customer_id = depositor.customer_id
inner join account on account.account_number = depositor.account_number inner join loan on
loan.loan_number = borrower.loan_number where account.branch_name = "Perryridge" and
loan.branch_name = "Perryridge";

```
MariaDB [Bank]> select customer.customer_name from customer inner join borrower on customer.customer_id = borrower.customer_id inner join depositor on customer.customer_id = depositor.customer_id inner join account on account.account_number = depositor.account_number inner join loan on loan.loan_number = borrower.loan_number where account.branch_name = "Perryridge" and loan.branch_name = "Perryridge";
+-----+
| customer_name |
+-----+
| Hayes         |
+-----+
1 row in set (0.001 sec)
```

TASK-7

select customer.customer_name, sum(loan.amount) as total_loan from customer inner join
borrower on customer.customer_id = borrower.customer_id inner join loan on
borrower.loan_number = loan.loan_number group by customer.customer_id having
count(customer.customer_id) >= 2;

```
MariaDB [Bank]> Select customer.customer_name, sum(loan.amount) as total_loan from customer inner join borrower on customer.customer_id = borrower.customer_id  
inner join loan on borrower.loan_number = loan.loan_number group by customer.customer_id having count(customer.customer_id) >= 2;  
+-----+-----+  
| customer_name | total_loan |  
+-----+-----+  
| Smith         |      2900 |  
+-----+-----+  
1 row in set (0.001 sec)
```