

Assignment-3

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Task-01

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

```
MariaDB [bank]> select customer.customer_name, loan.loan_number from customer inner join borrower on customer.customer_id=borrower.customer_id inner join loan on loan.loan_number=borrower.loan_number where branch_name='Downtown';
+-----+-----+
| customer_name | loan_number |
+-----+-----+
| Johnson       | L-14        |
| Jones         | L-17        |
| Williams      | L-17        |
+-----+-----+
3 rows in set (0.000 sec)
```

Task-02

```
select c1.customer_name as Customer1, c2.customer_name as Customer2, c1.customer_city as
City from customer c1 inner join customer c2 on c1.customer_city=c2.customer_city and
c1.customer_id<c2.customer_id;
```

```
MariaDB [bank]> select c1.customer_name as Customer1, c2.customer_name as Customer2, c1.customer_city as City from customer c1 inner join customer c2 on c1.customer_city=c2.customer_city and c1.customer_id<c2.customer_id;
+-----+-----+-----+
| Customer1 | Customer2 | City   |
+-----+-----+-----+
| Jones     | Hayes     | Harrison |
| Smith     | Curry     | Rye     |
| Lindsay   | Adams     | Pittsfield |
| Turner    | Green     | Stamford |
+-----+-----+-----+
4 rows in set (0.000 sec)
```

Task-03

```
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-04

```
select a1.account_number from account a1 inner join branch b1 on
a1.branch_name=b1.branch_name where a1.balance=(select max(a2.balance) from account a2
inner join branch b2 on a2.branch_name=b2.branch_name where
b1.branch_city=b2.branch_city);
```

```
MariaDB [bank]> select a1.account_number from account a1 inner join branch b1 on a1.branch_name=b1.branch_name where a1.balance=(select max(a2.balance) from
account a2 inner join branch b2 on a2.branch_name=b2.branch_name where b1.branch_city=b2.branch_city);
+-----+
| account_number |
+-----+
| A-201          |
| A-215          |
| A-222          |
+-----+
3 rows in set (0.001 sec)
```

Task-05

```
select l.loan_number, l.amount as loan_amount, c.customer_name from loan l inner join
borrower b on l.loan_number=b.loan_number inner join customer c on
b.customer_id=c.customer_id order by l.amount desc, l.loan_number asc limit 5;
```

```
MariaDB [bank]> select l.loan_number, l.amount as loan_amount, c.customer_name from loan l inner join borrower b on l.loan_number=b.loan_number inner join c
ustomer c on b.customer_id=c.customer_id order by l.amount desc, l.loan_number asc limit 5;
+-----+-----+-----+
| loan_number | loan_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)
```

Task-06

```
select distinct c.customer_name from customer c inner join depositor d on
c.customer_id=d.customer_id inner join account a on d.account_number=a.account_number
inner join loan l on a.branch_name=l.branch_name where a.branch_name='Perryridge' and
l.branch_name='Perryridge';
```

```
MariaDB [bank]> select distinct c.customer_name from customer c inner join depositor d on c.customer_id=d.customer_id inner join account a on d.account_numbe
r=a.account_number inner join loan l on a.branch_name=l.branch_name where a.branch_name='Perryridge' and l.branch_name='Perryridge';
+-----+
| customer_name |
+-----+
| Hayes         |
+-----+
1 row in set (0.001 sec)
```

Task-07

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

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