



CSE370
Lab Assignment: 04

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Section: 5 (Theory, Lab)
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Task 1

select l1.customer_name, l2.loan_number from customer l1 inner join borrower l2 on l1.customer_id = l2.customer_id inner join loan l3 on l2.loan_number = l3.loan_number where l3.branch_name = "Downtown";

```
MariaDB [bank]> select l1.customer_name, l2.loan_number from customer l1 inner join borrower l2 on l1.customer_id = l2.customer_id inner join loan l3 on l2.loan_number = l3.loan_number where l3.branch_name = "Downtown";
```

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

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

Task 2

select l1.customer_name as Customer1, l2.customer_name as Customer2, l1.customer_city as City from customer l1 inner join customer l2 on l1.customer_city = l2.customer_city and l1.customer_id < l2.customer_id;

```
MariaDB [bank]> select l1.customer_name as Customer1, l2.customer_name as Customer2, l1.customer_city as City from customer l1 inner join customer l2 on l1.customer_city = l2.customer_city and l1.customer_id < l2.customer_id;
```

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

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

Task 3

select account.branch_name as Branch_name, account.balance*(4/100) as Total_Interest from account;

```
MariaDB [bank]> select account.branch_name as Branch_name, account.balance*(4/100) as Total_Interest from account;
```

Branch_name	Total_Interest
Downtown	20.0000
Perryridge	16.0000
Brighton	36.0000
Mianus	28.0000
Brighton	30.0000
Redwood	28.0000
Round Hill	14.0000

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

Task 4

select account_number from account order by balance desc;

```
MariaDB [bank]> select account_number from account order by balance desc;
```

account_number
A-201
A-217
A-215
A-222
A-101
A-102
A-305

```
7 rows in set (0.003 sec)
```

Task 5

select l1.loan_number, l1.amount, l2.customer_name from loan l1 inner join borrower l3 on l1.loan_number = l3.loan_number inner join customer l2 on l2.customer_id = l3.customer_id order by l1.amount asc, l1.loan_number desc limit 5;

```
MariaDB [bank]> select l1.loan_number, l1.amount, l2.customer_name from loan l1 inner join borrower l3 on l1.loan_number = l3.loan_number inner join customer l2 on l2.customer_id = l3.customer_id order by l1.amount asc, l1.loan_number desc limit 5;
```

loan_number	amount	customer_name
L-93	500	Curry
L-11	900	Smith
L-17	1000	Jones
L-17	1000	Williams
L-16	1300	Adams

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

Task 6

select l1.customer_name from customer l1 inner join depositor l2 on l1.customer_id = l2.customer_id inner join account l3 on l3.account_number = l2.account_number inner join borrower l4 on l4.customer_id = l1.customer_id where l3.branch_name = "Perryridge";

```
MariaDB [bank]> select l1.customer_name from customer l1 inner join depositor l2 on l1.customer_id = l2.customer_id inner join account l3 on l3.account_number = l2.account_number inner join borrower l4 on l4.customer_id = l1.customer_id where l3.branch_name = "Perryridge";
```

customer_name
Hayes

```
1 row in set (0.000 sec)
```

Task 7

```
select l1.customer_name, sum(l3.amount) as total_loan from customer l1 inner join borrower l2 on  
l2.customer_id = l1.customer_id inner join loan l3 on l2.loan_number = l3.loan_number having count(*)  
>= 2;
```

```
MariaDB [bank]> select l1.customer_name, sum(l3.amount) as total_loan from customer l1 inner join borrower l2 on l2.c  
ustomer_id = l1.customer_id inner join loan l3 on l2.loan_number = l3.loan_number having count(*) >= 2;  
+-----+-----+  
| customer_name | total_loan |  
+-----+-----+  
| Smith        |          9700 |  
+-----+-----+  
1 row in set (0.001 sec)
```