

## CSE 370 LAB ASSIGNMENT 4

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Section :05

1. select 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 [cse370_fall122]> select 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)
```

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\_name < c2.customer\_name;

```
MariaDB [cse370_fall122]> 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_name < c2.customer_name;
```

customer1	customer2	city
Hayes	Jones	Harrison
Curry	Smith	Rye
Adams	Lindsay	Pittsfield
Green	Turner	Stamford

```
4 rows in set (0.002 sec)
```

3. select branch\_name as Branch\_Name, SUM(balance\*4/100) as total\_interest from account group by branch\_name;

```
MariaDB [cse370_fall122]> select branch_name as Branch_Name, SUM(balance*4/100) as total_interest from account group by branch_name;
```

Branch_Name	total_interest
Brighton	66.0000
Downtown	20.0000
Mianus	28.0000
Perryridge	16.0000
Redwood	28.0000
Round Hill	14.0000

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

4. select d.account\_number as Account\_Number, max(a.balance) as Max\_Balance, c.customer\_city as City 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 group by c.customer\_city;

```
MariaDB [cse370_fall122]> select d.account_number as Account_Number, max(a.balance) as Max_Balance, c.customer_city as City
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 group by c.customer_city;
+-----+-----+-----+
| Account_Number | Max_Balance | City      |
+-----+-----+-----+
| A-217          | 750         | Harrison  |
| A-101          | 900         | Palo Alto |
| A-222          | 700         | Pittsfield|
| A-215          | 700         | Rye       |
| A-305          | 350         | Stamford  |
+-----+-----+-----+
5 rows in set (0.001 sec)
```

5. select \* from (select l.loan\_number, l.amount as loan\_amount, c.customer\_name from (borrower b inner join loan l on l.loan\_number = b.loan\_number) inner join customer c on b.customer\_id = c.customer\_id order by l.amount desc limit 5) as r order by loan\_amount asc, loan\_number desc;

```
MariaDB [cse370_fall122]> select * from (select l.loan_number, l.amount as loan_amount, c.customer_name from (borrower b
inner join loan l on l.loan_number = b.loan_number) inner join customer c on b.customer_id = c.customer_id order by l.am
ount desc limit 5) as r order by loan_amount asc, loan_number desc;
+-----+-----+-----+
| loan_number | loan_amount | customer_name |
+-----+-----+-----+
| L-17        | 1000        | Jones         |
| L-16        | 1300        | Adams         |
| L-15        | 1500        | Hayes         |
| L-14        | 1500        | Johnson       |
| L-23        | 2000        | Smith         |
+-----+-----+-----+
5 rows in set (0.000 sec)
```

6. select c.customer\_name from ((loan l inner join account a on l.branch\_name = a.branch\_name) inner join borrower b on l.loan\_number = b.loan\_number) inner join customer c on b.customer\_id = c.customer\_id where a.branch\_name = "Perryridge" and l.branch\_name = "Perryridge" group by a.branch\_name;

```
MariaDB [cse370_fall122]> select c.customer_name from ((loan l inner join account a on l.branch_name = a.branch_name) inn
er join borrower b on l.loan_number = b.loan_number) inner join customer c on b.customer_id = c.customer_id where a.bran
ch_name = "Perryridge" and l.branch_name = "Perryridge" group by a.branch_name;
+-----+
| customer_name |
+-----+
| Hayes         |
+-----+
1 row in set (0.000 sec)
```

7. select c.customer\_name, sum(l.amount) as total\_loan 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 group by c.customer\_id having count(\*) >= 2;

```
MariaDB [cse370_fall22]> select c.customer_name, sum(l.amount) as total_loan 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 group by c.customer_id having count(*) >= 2;
+-----+-----+
| customer_name | total_loan |
+-----+-----+
| Smith        |         2900 |
+-----+-----+
1 row in set (0.001 sec)
```