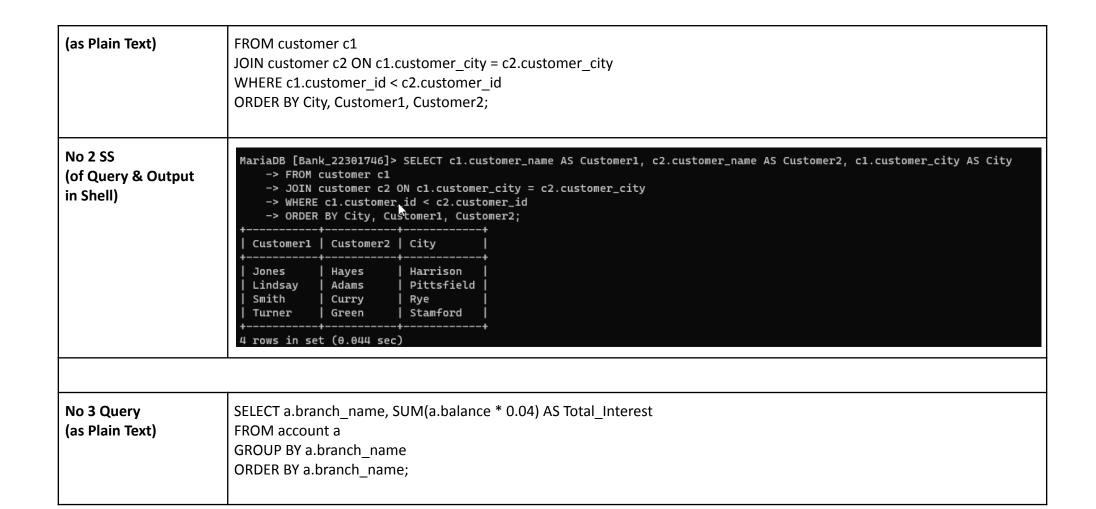
#### **CSE370**: Database Systems

#### Assignment 01/02/03 | Spring 2025

ID: 22301746 | Name: Md Zihadul Islam

No 1 Query (as Plain Text)	SELECT c.customer_name, b.loan_number FROM customer c JOIN borrower b ON c.customer_id = b.customer_id JOIN loan I ON b.loan_number = l.loan_number WHERE l.branch_name = 'Downtown';
No 1 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_22301746]&gt; SELECT c.customer_name, b.loan_number     -&gt; FROM customer c     -&gt; JOIN borrower b ON c.customer_id = b.customer_id     -&gt; JOIN loan l ON b.loan_number = l.loan_number     -&gt; WHERE l.branch_name = 'Downtown'; +</pre>
	Johnson
No 2 Query	SELECT c1.customer_name AS Customer1, c2.customer_name AS Customer2, c1.customer_city AS City



#### No 3 SS (of Query & Output in Shell)

```
MariaDB [Bank_22301746] > SELECT a.branch_name, SUM(a.balance * 0.04) AS Total_Interest
    -> FROM account a
    -> GROUP BY a.branch_name
    -> ORDER BY a.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 (0.019 sec)
```

## No 4 Query (as Plain Text)

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

JOIN branch b ON a.branch_name = b.branch_name
WHERE a.balance = (
    SELECT MAX(a2.balance)
    FROM account a2
    JOIN branch b2 ON a2.branch_name = b2.branch_name
    WHERE b2.branch_city = b.branch_city
);
```

```
No 4 SS
(of Query & Output
in Shell)
```

```
MariaDB [Bank_22301746] > SELECT a.account_number, b.branch_city, a.balance
    -> FROM account a
    -> JOIN branch b ON a.branch_name = b.branch_name
    -> WHERE a.balance = (
           SELECT MAX(a2.balance)
           FROM account a2
           JOIN branch b2 ON a2.branch_name = b2.branch_name
           WHERE b2.branch_city = b.branch_city
    -> );
  account_number | branch_city | balance
                   Brooklyn
  A-201
                                     900
  A-215
                   Horseneck
                                     700
                   Palo Alto
  A-222
                                     700
3 rows in set (0.020 sec)
MariaDB [Bank_22301746]>
```

# No 5 Query (as Plain Text)

FROM loan I

JOIN borrower b ON I.loan\_number = b.loan\_number

JOIN customer c ON b.customer\_id = c.customer\_id

ORDER BY I.amount DESC, I.loan\_number ASC

LIMIT 5;

SELECT I.loan number, I.amount, c.customer name

```
No 5 SS
(of Query & Output
in Shell)
```

```
MariaDB [Bank_22301746] > SELECT l.loan_number, l.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 DESC, l.loan_number ASC
    -> LIMIT 5;
  loan_number | amount | customer_name
                        Smith
 L-23
                  2000
 L-14
                  1500
                         Johnson
  L-15
                  1500
                         Hayes
                         Adams
  L-16
                  1300
  L-17
                  1000
                         Jones
```

## No 6 Query (as Plain Text)

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 I ON b.loan number = I.loan number

WHERE a.branch\_name = 'Perryridge' AND I.branch\_name = 'Perryridge';

#### No 6 SS (of Query & Output in Shell)

### No 7 Query (as Plain Text)

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 I ON b.loan\_number = l.loan\_number

GROUP BY c.customer\_id

HAVING COUNT(b.loan\_number) >= 2;

```
No 7 SS
(of Query & Output
in Shell)
```