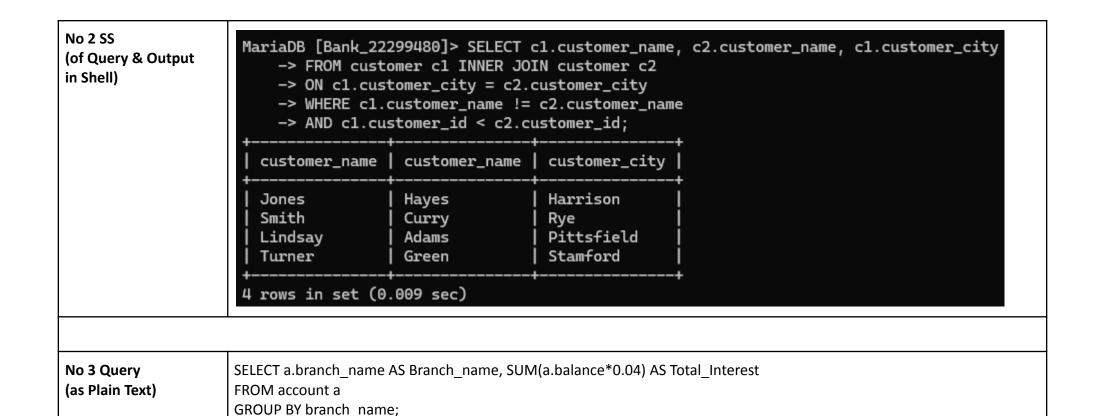
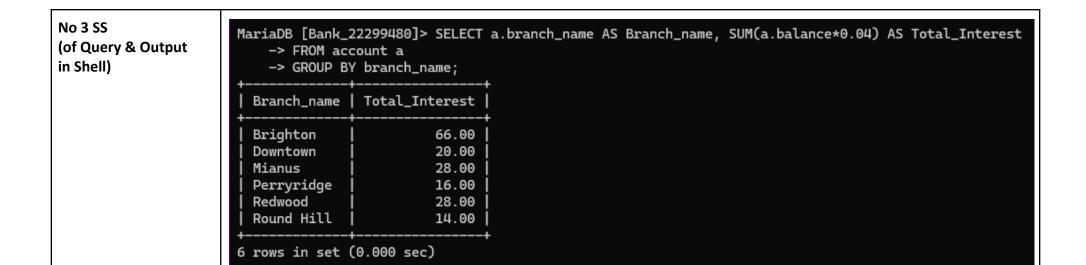
CSE370: Database Systems

Assignment 03 | Fall 2024

ID : 22299480 | Name : Mihir Das

No 1 Query (as Plain Text)	SELECT c.customer_name, l.loan_number FROM (customer c INNER JOIN borrower b ON c.customer_id = b.customer_id) INNER 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_22299480]> SELECT c.customer_name, l.loan_number -> 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 -> WHERE l.branch_name = 'Downtown'; +</pre>
No 2 Query (as Plain Text)	SELECT c1.customer_name, c2.customer_name, c1.customer_city FROM customer c1 INNER JOIN customer c2 ON c1.customer_city = c2.customer_city WHERE c1.customer_name != c2.customer_name AND c1.customer_id < c2.customer_id;





No 4 Query (as Plain Text)

SELECT a.account_number, MAX(a.balance), b.branch_city
FROM account a INNER JOIN branch b
ON a.branch_name = b.branch_name
GROUP BY b.branch_city;



No 5 Query (as Plain Text)

SELECT I.loan_number, I.amount, c.customer_name
FROM (loan I
INNER JOIN borrower b ON I.loan_number = b.loan_number)
INNER JOIN customer c ON b.customer_id = c.customer_id
ORDER BY I.amount DESC, I.loan_number DESC
LIMIT 5;

No 5 SS (of Query & Output in Shell)

```
MariaDB [Bank_22299480] > SELECT l.loan_number, l.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 DESC
    -> LIMIT 5;
  loan_number | amount | customer_name
  L-23
                  2000
                         Smith
  L-15
                  1500
                         Haves
  L-14
                  1500
                         Johnson
  L-16
                  1300
                         Adams
  L-17
                  1000 |
                         Jones
5 rows in set (0.000 sec)
```

No 6 Query (as Plain Text)

SELECT DISTINCT c.customer_name

FROM customer c

-- we link the tables by joining two tables on the basis of primary key and foreign key

INNER JOIN depositor d ON c.customer_id = d.customer_id -- link1

INNER JOIN account a ON a.account number = d.account number -- link2

INNER JOIN borrower b ON c.customer_id = b.customer_id -- link3

INNER JOIN loan I ON I.loan_number = b.loan_number -- link4

WHERE I.branch_name = "Perryridge"; -- condition

No 6 SS (of Query & Output in Shell)

No 7 Query (as Plain Text)

SELECT c.customer_name, SUM(I.amount) AS total_loan
FROM customer c
INNER JOIN borrower b ON c.customer_id = b.customer_id -- link1
INNER JOIN loan I ON I.loan_number = b.loan_number -- link2
GROUP BY c.customer_name
HAVING COUNT(I.loan_number) >= 2;

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