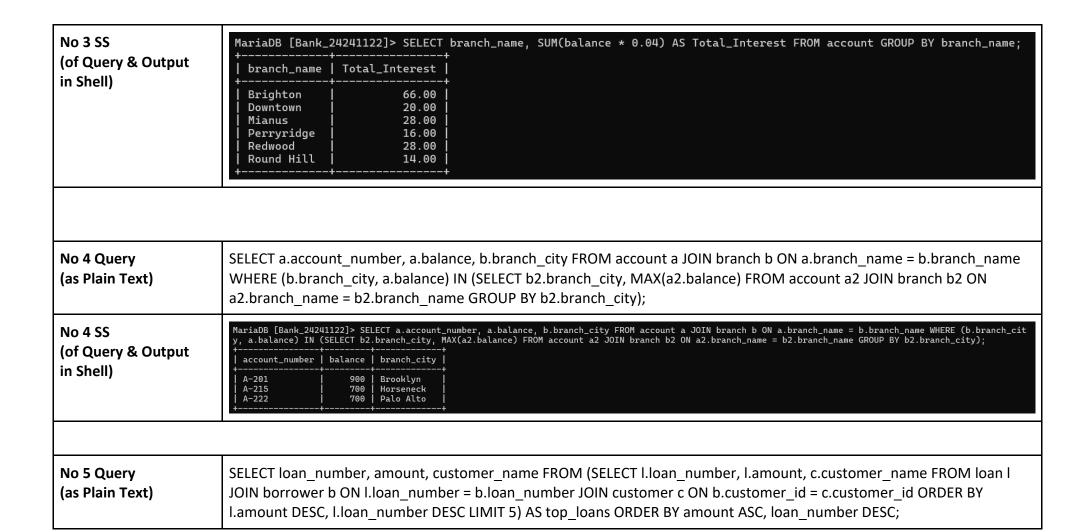
## **CSE370**: Database Systems

## Assignment 03 | Spring 2025

ID : <24241122> | Name : Ayhan Arash Tasin

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 = I.loan_number WHERE I.branch_name = 'Downtown';
No 1 SS (of Query & Output in Shell)	MariaDB [Bank_24241122]> SELECT c.customer_name, b.loan_number FROM customer c JOIN borrower b ON c.customer_id = b.customer_id JOIN loan l ON b.loan_number = l.loan_number WHERE l.branch_name = 'Downtown'; +
No 2 Query (as Plain Text)	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_id < c2.customer_id;
No 2 SS (of Query & Output in Shell)	MariaDB [Bank_24241122]> 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_id < c2.customer_id;  +
No 3 Query (as Plain Text)	SELECT branch_name, SUM(balance * 0.04) AS Total_Interest FROM account GROUP BY branch_name;



No 5 SS (of Query & Output in Shell)	MariaDB [Bank_24241122]> SELECT loan_number, amount, customer_name FROM (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 DESC LIMIT 5) AS top_loans ORDER BY amount ASC, loan_number DESC;  +
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)	MariaDB [Bank_24241122]> 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 l ON b.loan_number = l.loan_number WHERE a.branch_name = 'Perryridge' AND l. branch_name = 'Perryridge'; +
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)	MariaDB [Bank_24241122]> 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 l ON b.loan_number = l.loan_number GROUP BY c.customer_id HAVING COUNT(b.loan_number) >= 2;    customer_name   total_loan