**CSE370 – Lab 3**

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**Lab Section 05**

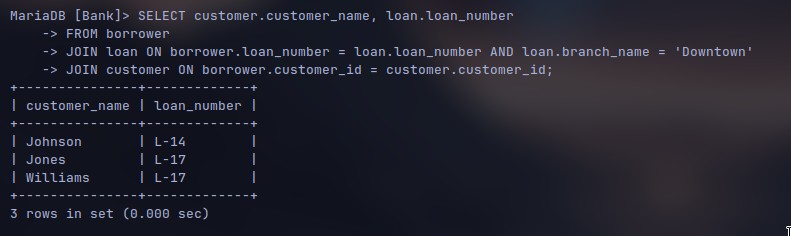
**Question 01:**

SELECT customer.customer\_name, loan.loan\_number

-> FROM borrower

-> JOIN loan ON borrower.loan\_number = loan.loan\_number AND loan.branch\_name = 'Downtown'

-> JOIN customer ON borrower.customer\_id = customer.customer\_id;

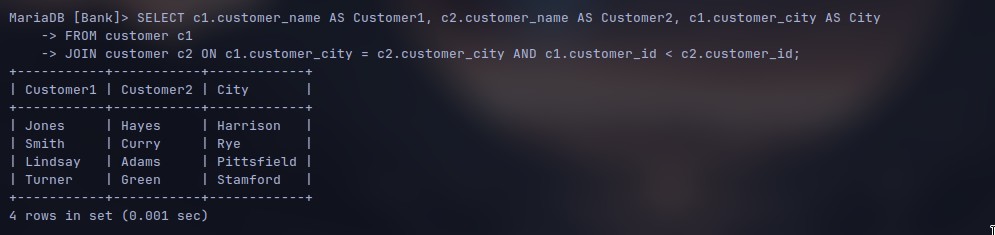


**Question 02:**

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;

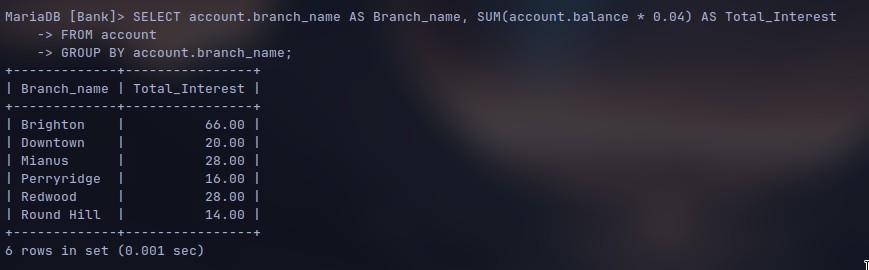


**Question 03:**

SELECT account.branch\_name AS Branch\_name, SUM(account.balance \* 0.04) AS Total\_Interest

-> FROM account

-> GROUP BY account.branch\_name;



**Question 04:**

SELECT b.branch\_city, a.account\_number, a.balance

-> FROM account a

-> INNER JOIN branch b ON a.branch\_name = b.branch\_name

-> WHERE a.balance = (

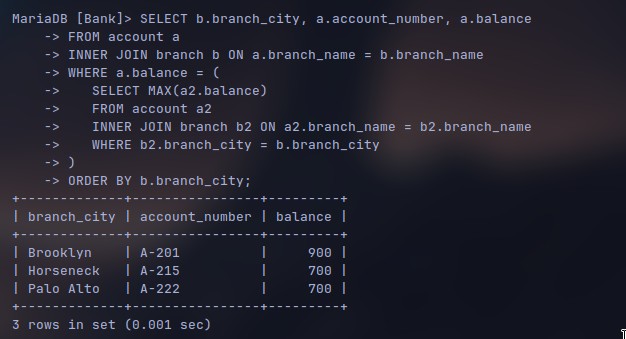
-> SELECT MAX(a2.balance) FROM account a2

-> INNER JOIN branch b2 ON a2.branch\_name = b2.branch\_name

-> WHERE b2.branch\_city = b.branch\_city

-> )

-> ORDER BY b.branch\_city;



**Question 05:**

SELECT \* FROM (

-> SELECT loan.loan\_number, amount, customer\_name

-> FROM loan INNER

-> JOIN borrower ON loan.loan\_number = borrower.loan\_number INNER

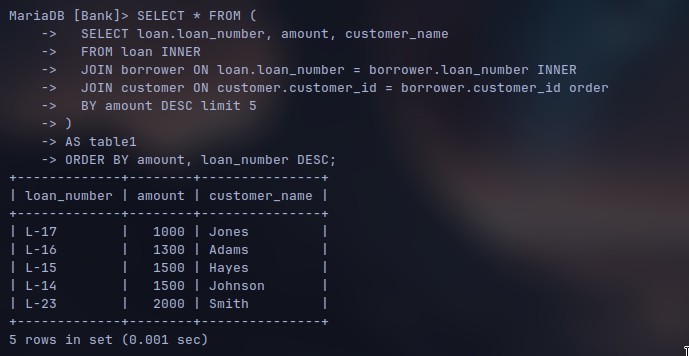
-> JOIN customer ON customer.customer\_id = borrower.customer\_id order

-> BY amount DESC limit 5

-> )

-> AS table1

-> ORDER BY amount, loan\_number DESC;



**Question 06:**

SELECT DISTINCT c.customer\_name

-> FROM customer c

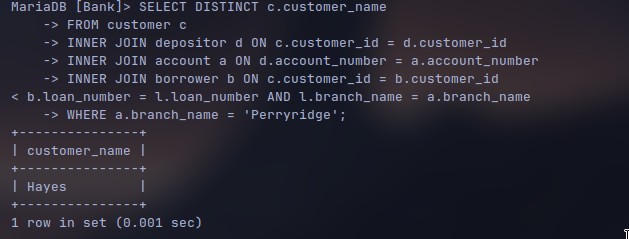
-> INNER JOIN depositor d ON c.customer\_id = d.customer\_id

-> INNER JOIN account a ON d.account\_number = a.account\_number

-> INNER JOIN borrower b ON c.customer\_id = b.customer\_id

-> INNER JOIN loan l ON b.loan\_number = l.loan\_number AND l.branch\_name = a.branch\_name

-> WHERE a.branch\_name = 'Perryridge';



**Question 07:**

SELECT c.customer\_name, COUNT(\*) AS number\_of\_loans, 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

-> WHERE c.customer\_id IN (

-> SELECT b2.customer\_id

-> FROM borrower b2

-> GROUP BY b2.customer\_id

-> HAVING COUNT(\*) >= 2

-> )

-> GROUP BY c.customer\_id

-> ORDER BY total\_loan DESC;

