CSE370 : Database Systems

Assignment 03 | Spring 2025
ID: <2 -> | Name: _____

No 1 Query (as Plain Text)	mysql -u root -p
(30 - 1333 - 1334)	CREATE DATABASE Bank == ;
	USE Bank_====3;
	SHOW TABLES;
	Insert values into all tables
	Showed all tables by SELECT*From all tables
	SELECT customer_name, loan.loan_number FROM borrower JOIN customer ON borrower.customer_id =
	customer.customer_id JOIN loan ON borrower.loan_number = loan.loan_number WHERE loan.branch_name = 'Downtown';



```
MariaDB [Bank_21301163]> SELECT*From account;
 branch_name | account_number |
                                balance
  Downtown
               A-101
                                    500
  Perryridge
               A-102
                                    400
  Brighton
               A-201
                                    900
 Mianus
               A-215
                                    700
  Brighton
               A-217
                                    750
 Redwood
               A-222
                                    700
 Round Hill
              A-305
                                    350
7 rows in set (0.000 sec)
MariaDB [Bank_21301163]> SELECT*From borrower;
 customer_id | loan_number
               L-17
 C-101
 C-201
               L-11
 C-201
               L-23
 C-211
               L-15
 C-212
               L-93
 C-222
               L-17
 C-225
               L-16
 C-226
               L-14
8 rows in set (0.001 sec)
```

Maria08 [Bank_21301163]> SELECT+From branch;

branch_name	branch_city	assets
Brighton	Brooklyn	7100000
Downtown	Brooklyn	9999999
Mianus	Horseneck	499999
North Town	Rye	3799999
Perryridge	Horseneck	1799999
Pounal	Bennington	399999
Redwood	Palo Alto	2100000
Round Hill	Horseneck	8999999

8 rows in set (0.000 sec)

MariaDB [Bank_21381163]> SELECT*From customer;

customer_id	customer_mame	customer_street	customer_city
C-181	Jones	Hain	Harrison
C-281	Smith	Morth	Rye
C-211	Hayes	Hain	Harrison
C-212	Curry	Morth	Rye
C-215	Lindsay	Park	Pittsfield
C-228	Turner	Putnan	Stamford
C-222	Williams	Nassau	Princeton
C-225	Adams	Spring	Pittsfield
C-226	Johnson	Alma	Palo Alto
C-226	Glenn	Sand Hill	Woodside
C-234	Brooks	Senator	Brooklyn
C-255	Green	Malnut	Stanford

12 rows in set (0.001 sec)

MariaDB [Bank_21301163]> SELECT+From depositor;

customer_id	account_number
C-181	A-217
C-201	A-215
C-211	A-182
C-211 C-215	A-222
C-220	A-385
C-220 C-226	A-181
C-226	A-201
+	

7 rows in set (0.000 sec)

Maria08 [Bank_21301163]> SELECT*From loan;

loan_number	branch_name	amount
L-11	Round Hill	988
L-14	Downtown	1599
L-15	Perryridge	1500
L-16	Perryridge	1399
L-17	Downtown	1999
L-23	Redwood	2999
L-93	Mianus	599

7 rows in set (0.000 sec)

Maria08 [Bank_21301163]> SELECT customer_customer_name, loan.

customer_mame	loan_number
Johnson	L-14
Jones	L-17
Williams	L-17

3 rows in set (0.003 sec)

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_id < c2.customer_id AND c1.customer_city = c2.customer_city;	
No 2 SS (of Query & Output in Shell)	<pre>MariaDB [Bank_21301163]> SELECT c1.custome</pre>	
	Customer1 Customer2 City	
	Jones Hayes Harrison Smith Curry Rye Lindsay Adams Pittsfield Turner Green Stamford	
	4 rows in set (0.002 sec)	
No 3 Query (as Plain Text)	SELECT branch_name, SUM(balance * 0.04) AS Total_Interest FROM account GROUP BY branch_name;	

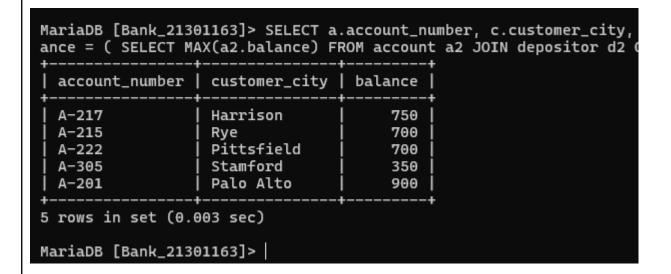
No 3 SS (of Query & Output in Shell)

```
MariaDB [Bank_21301163] > SELECT branch_name, SUM(balance * 0.04)
  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 (0.001 sec)
MariaDB [Bank 21301163]>
```

No 4 Query (as Plain Text)

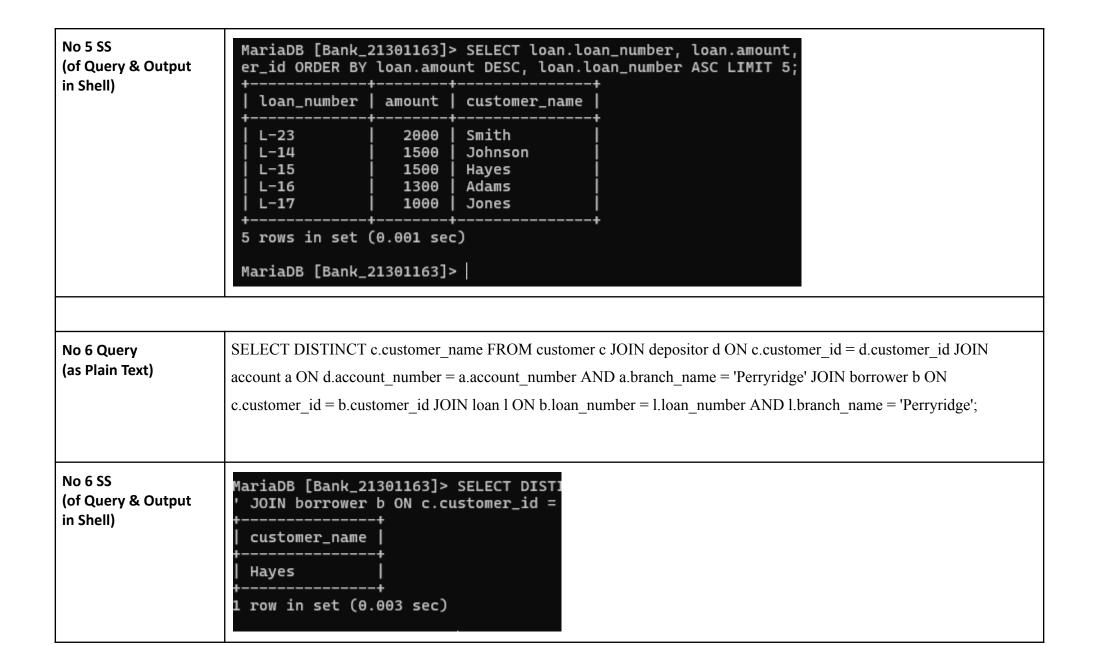
SELECT a.account_number, c.customer_city, a.balance FROM account a JOIN depositor d ON a.account_number = d.account_number JOIN customer c ON d.customer_id = c.customer_id WHERE a.balance = (SELECT MAX(a2.balance) FROM account a2 JOIN depositor d2 ON a2.account_number = d2.account_number JOIN customer c2 ON d2.customer_id = c2.customer_id WHERE c2.customer_city = c.customer_city);





No 5 Query (as Plain Text)

SELECT loan.loan_number, loan.amount, customer_customer_name FROM loan JOIN borrower ON loan.loan_number = borrower.loan_number JOIN customer ON borrower.customer_id = customer.customer_id ORDER BY loan.amount DESC, loan.loan_number ASC LIMIT 5;



No 7 Query (as Plain Text)	SELECT customer_customer_name, SUM(loan.amount) AS total_loan FROM borrower JOIN customer ON borrower.customer_id = customer.customer_id JOIN loan ON borrower.loan_number = loan.loan_number GROUP I customer.customer_id HAVING COUNT(loan.loan_number) >= 2; MariaDB [Bank_21301163] > SELECT customer.customer_name, SUM(loan.amoun number GROUP BY customer.customer_id HAVING COUNT(loan.loan_number) >= customer_name total_loan	
No 7 SS (of Query & Output in Shell)		