Cse370 Lab Assgnment 04

Deadline: 31-07-2023 11:59 pm

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Sec-06

mysql -u root -p

show databases;

use Bank;

show tables;

```
MariaDB [bank]> show tables;
+-----+
| Tables_in_bank |
+-----+
| account |
| borrower |
| branch |
| customer |
| depositor |
| loan |
+-----+
6 rows in set (0.001 sec)
```

Select * from customer;

MariaDB [bank]> Select * from customer; ++				
customer_id	customer_name	customer_street	customer_city	
C-101	Jones	Main	Harrison	
C-201 C-211	Smith Hayes	North Main	Rye Harrison	
C-212	Curry Lindsay	North Park	Rye Pittsfield	
C-220	Turner	Putnam	Stamford	
C-222 C-225	Williams Adams	Nassau Spring	Princeton Pittsfield	
C-226	Johnson Glenn	Alma Sand Hill	Palo Alto Woodside	
C-234	Brooks	Senator	Brooklyn	
C-255 +	Green	Walnut	Stamford	
12 rows in set (0.000 sec)				

Select * from branch;

```
MariaDB [bank]> Select * from branch;
 branch_name | branch_city | assets
 Brighton
               Brooklyn
                             7100000
               Brooklyn
 Downtown
                            9000000
 Mianus
               Horseneck
                             400000
 North Town
             Rye
                             3700000
               Horseneck
 Perryridge
                            1700000
 Pownal
               Bennington
                             300000
 Redwood
             | Palo Alto
                             2100000
 Round Hill | Horseneck
                             8000000
8 rows in set (0.000 sec)
```

Select * from account;

MariaDB [bank]> Select * from account;				
branch_name	account_number	balance		
Downtown Perryridge Brighton Mianus Brighton Redwood Round Hill	A-101 A-102 A-201 A-215 A-217 A-222 A-305	500 400 900 700 750 700 350		
+				

Select * from loan;

MariaDB [bank]> Select * from loan;				
	branch_name			
L-11	Round Hill	900		
L-14	Downtown	1500		
L-15	Perryridge	1500		
L-16	Perryridge	1300		
L-17	Downtown	1000		
L-23	Redwood	2000		
L-93	Mianus	500		
++				
7 rows in set (0.000 sec)				

Select * from depositor;

```
MariaDB [bank]> Select * from depositor;
 customer_id | account_number |
 C-101
             A-217
 C-201
             A-215
 C-211
             A-102
 C-215
             A-222
 C-220
             A-305
 C-226
             A-101
 C-226
             A-201
7 rows in set (0.000 sec)
```

Select * from borrower;

```
MariaDB [bank]> Select * from borrower;
 customer_id | loan_number |
 C-101
              L-17
              L-11
 C-201
 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 (0.000 sec)
```

1.

Select customer_name, loan.loan_number from ((customer inner join borrower on customer_id = borrower.customer_id) inner join loan on loan.loan_number = borrower.loan number) where branch name = 'Downtown';

2.

Select customer1.customer_name as Customer1, customer2.customer_name as Customer2, customer1.customer_city from customer customer1 join customer customer2 on customer1.customer_city=customer2.customer_city and customer1.customer_name< customer2.customer name;

```
MariaDB [bank]> Select customer1.customer_name as Customer1, customer2.customer_name as Custo
mer2, customer1.customer_city from customer customer1 join customer customer2 on customer1.cu
stomer_city=customer2.customer_city and customer1.customer_name< customer2.customer_name;
 Customer1 | Customer2 | customer_city |
                         Harrison
 Hayes
              Jones
  Curry
              Smith
                         Rye
  Adams
             Lindsay
                          Pittsfield
                         Stamford
  Green
             Turner
 rows in set (0.001 sec)
```

3.

Select branch name, sum(balance*4/100) as total interest from account group by branch name;

4.

Select depositor.account_number, max(account.balance) as highest_balance, customer.customer_city from (customer inner join depositor on customer.customer_id = depositor.customer_id) inner join account on depositor.account_number = account.account_number group by customer.customer_city;

```
MariaDB [bank]> Select depositor.account_number, max(account.balance) as highest_balance, cus
tomer.customer_city from (customer inner join depositor on customer.customer_id = depositor.c
ustomer_id) inner join account on depositor.account_number = account.account_number group by
customer.customer city;
 account_number | highest_balance | customer_city |
                              750 | Harrison
 A-217
                              900
                                    Palo Alto
 A-101
 A-222
                              700
                                    Pittsfield
 A-215
                               700
                                    Rye
                               350 | Stamford
  A-305
 rows in set (0.001 sec)
```

5.

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;

6.

Select customer.customer_name from ((loan inner join account on loan.branch_name = account.branch_name) inner join borrower on loan.loan_number = borrower.loan_number) inner join customer on borrower.customer_id = customer.customer_id where account.branch_name = "Perryridge" and loan.branch_name = "Perryridge" group by account.branch_name;

7.

Select customer.customer_name, sum(loan.amount) as Total_Loan from (loan inner join borrower on loan.loan_number = borrower.loan_number) inner join customer on borrower.customer_id = customer.customer_id group by customer.customer_id having count(*)>=2;