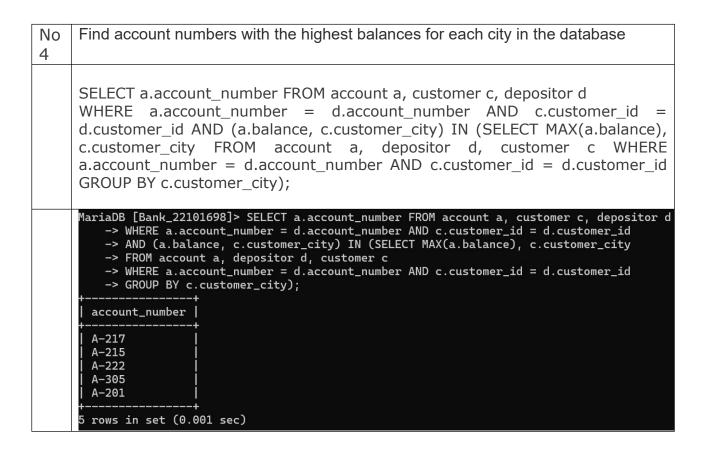
CSE370 : Database Systems | Summer 2024 Lab Assignment : 03 | Lab Section : 08

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No	Find the name and loan number of all customers having a loan at the Downtown				
1	branch.				
	SELECT c.customer_name, l.loan_number from customer c, borrower loan I WHERE c.customer_id = b.customer_id and b.loan_number l.loan_number and l.branch_name = 'Downtown';				
	MariaDB [Bank_22101698]> SELECT c.customer_name, l.loan_number from customer c, borrower b, loan l -> WHERE c.customer_id = b.customer_id and b.loan_number = l.loan_number and l.branch_name = 'Down				
	customer_name   loan_number				
	Johnson				
	3 rows in set (0.002 sec)				

No 2	Find all the possible pairs of customers who are from the same city. show in the format Customer1, Customer2, City.				
	SELECT C1.customer_name as Customer1, C2.customer_name as Customer2, c1.customer_city as City FROM customer C1, customer C2 WHERE C1.customer_city = C2.customer_city AND C1.customer_id != C2.customer_id;				
	MariaDB [Bank_22101698]> SELECT C1.customer_name as Customer1, C2.customer_name as Customer2, c1.customer_city as City -> FROM customer C1, customer C2 WHERE C1.customer_city = C2.customer_city AND C1.customer_id != C2.customer_id;				
	Customer1   Cus	stomer2   City			
	Curry Smi Jones Hay Smith Cur Adams Lir Green Tur Lindsay Ada	nes Harrison nith Rye nyes Harrison nry Rye ndsay Pittsfield nams Pittsfield ams Pittsfield			

```
If the bank gives out 4% interest to all accounts, show the total interest across each
No
     branch. Print Branch name, Total Interest
3
     SELECT branch name as Branch name, SUM(balance*(4/100)) as
     Total_Interest FROM account group by branch_name;
     MariaDB [Bank_22101698]> SELECT branch_name as Branch_name, SUM(balance*(4/100)) as Total_Interest
         -> FROM account group by branch_name;
       Branch_name | Total_Interest |
       Brighton
                         20.0000
       Downtown
       Mianus
                         28.0000
                         16.0000
       Perryridge
       Redwood
                         28,0000
       Round Hill
                         14.0000
       rows in set (0.001 sec)
```



No 5	Show the loan number, loan amount, and name of customers with the top 5 highest loan amounts. The data should be sorted by increasing amounts, then decreasing loan numbers in case of the same loan amount. [Hint for top 5: Check the "limit" keyword in mysql]			
	SELECT I.loan_number, I.amount, c.customer_name FROM customer c, loan I, borrower b WHERE I.loan_number=b.loan_number and b.customer_id = c.customer_id ORDER BY I.amount DESC, I.loan_number DESC limit 5;			
<pre>MariaDB [Bank_22101698]&gt; SELECT l.loan_number, l.amount, c.customer_name FROM</pre>				
	loan_number			
	L-23			
	L-13			
	L-16			
	L-17			
	5 rows in set (0.001 sec)			

```
Find the names of customers with an account and also a loan at the Perryridge
No
6
    branch.
     SELECT c.customer_name FROM customer c, account a, depositor d,
    loan I, borrower b WHERE c.customer id = d.customer id AND
    d.customer id
                   =
                         b.customer id
                                         AND
                                                d.account number
    a.account_number AND l.loan_number = b.loan_number AND
    a.branch name = 'Perryridge' AND I.branch name = 'Perryridge';
     MariaDB [Bank_22101698] > SELECT c.customer_name
         -> FROM customer c, account a, depositor d, loan l, borrower b
         -> WHERE c.customer_id = d.customer_id
         -> AND d.customer_id = b.customer id
         -> AND d.account_number = a.account_number
         -> AND l.loan_number = b.loan_number
         -> AND a.branch_name = 'Perryridge'
         -> AND l.branch_name = 'Perryridge';
       customer_name
       Haves
       row in set (0.018 sec)
```