CSE370 Database Systems

Lab Homework-5

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Section: 06

Answer of question 1:

MariaDB [bank] > 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 = "Downtown";

```
MariaDB [bank]> 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 = "Downtown";
```

Answer of question 2:

MariaDB [bank]> 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_name!=C2.customer_name group by city;

MariaDB [bank]> 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_name!=C2.customer_name group by city;

```
+-----+
| Customer1 | Customer2 | City |
+-----+
| Hayes | Jones | Harrison |
| Adams | Lindsay | Pittsfield |
| Curry | Smith | Rye |
| Green | Turner | Stamford |
+-----+
4 rows in set (0.003 sec)
```

Answer of question 3:

MariaDB [bank] > select branch_name, sum(balance*0.04) as total_interest from account group by branch_name;

MariaDB [bank]> select branch_name, sum(balance*0.04) as total_interest from account group by branch_name;

Answer of question 4:

MariaDB [bank]> select A.account_number,B.branch_city, MAX(A.balance) as highest_value from account A, branch B where A.branch_name = B.branch_name group by B.branch_city;

MariaDB [bank]> select A.account_number,B.branch_city, MAX(A.balance) as highest_value from account A, branch B where A. branch_name = B.branch_name group by B.branch_city;

+ account_number :	+ branch_city :	++ highest_value
A-101 A-102 A-222	Brooklyn Horseneck Palo Alto	900 700 700
+ B rows in set (0.002 sec)		

Answer of question 5:

MariaDB [bank] > select L.loan_number, L.amount, C.customer_name from customer C, borrower B, loan L where

- -> C.customer_id = B.customer_id and
- -> B.loan_number = L.loan_number order by L.amount DESC, L.loan_number limit 5;

```
MariaDB [bank]> select L.loan_number,L.amount,C.customer_name from customer C, borrower B, loan L where
-> C.customer_id = B.customer_id and
-> B.loan_number = L.loan_number order by L.amount DESC, L.loan_number limit 5;
```

Answer of question 6:

MariaDB [bank]> select customer_name from customer C, depositor D, account A where C.customer_id=D.customer_id and A.account_number=D.account_number and A.branch_name="Perryridge" and C.customer_id in (select C.customer_id from Customer C, borrower B, loan L where C.customer_id=B.customer_id and L.loan_number=B.loan_number and L.branch_name="Perryridge");

MariaDB [bank]> select customer_name from customer C, depositor D, account A where C.customer_id=D.customer_id and A.account_number=D.account_number and A.branch_name="Perryridge" and C.customer_id in (select C.customer_id from Customer C, borrower B, loan_L where C.customer_id=B.customer_id and L.loan_number =B.loan_number and L.branch_name="Perryridge");

```
+-----+
| customer_name |
+-----+
| Hayes |
+-----+
1 row in set (0.002 sec)
```

Answer of question 7:

MariaDB [bank] > select C.customer_name, C.customer_id, SUM(L.amount) as total_loan from

- -> Customer C, Borrower B, Loan L where
- -> C.customer id = B.customer id and B.loan number = L.loan number
- -> group by C.customer_id having count(C.customer_id) = 2;

```
MariaDB [bank]> select C.customer_name, C.customer_id, SUM(L.amount) as total_loan from
-> Customer C, Borrower B, Loan L where
-> C.customer_id = B.customer_id and B.loan_number = L.loan_number
-> group by C.customer_id having count(C.customer_id) = 2;
```