HomeWork 4 Khawaja Ehsun Ul Hawak

21301284

CSE370 Lab

Section 04

Task 1:

select customer_customer_name, loan.loan_number from ((loan inner join borrower on loan.loan_number = borrower.loan_number) inner join customer on borrower.customer_id = customer.customer_id) where loan.branch_name = 'Downtown';

Task 2:

select c1.customer_name as Customer1, c2.customer_name as Customer2, c1.customer_city as City from customer c1 inner join customer c2 on c1.customer_city = c2.customer_city and c1.customer_id != c2.customer_id;

```
mysql> select c1.customer_name as Customer1, c2.customer_name as Customer2, c1.customer_city as City from customer c1 inner joi
n customer c2 on c1.customer_city = c2.customer_city and c1.customer_id != c2.customer_id;
 Customer1 | Customer2 | City
                                    Harrison
 Curry
                  Smith
                  Hayes
Curry
                                    Harrison
  Jones
  Smith
                                    Rye
  Adams
                  Lindsay
                                    Pittsfield
 Green
Lindsay
                   Turner
                                   Stamford
Pittsfield
                   Adams
                  Green
                                    Stamford
 rows in set (0.01 sec)
```

Task 3: select branch_name,sum(balance)*0.04 as Total_Interest from account group by branch_name;

```
mysql> select branch_name,sum(balance)*0.04 as Total_Interest from account group by branch_name;
               Total_Interest |
 branch_name |
 Downtown
                         20.00
 Perryridge
                         16.00
                         66.00
 Brighton
 Mianus
                         28.00
 Redwood
                         28.00
 Round Hill
                         14.00
 rows in set (0.01 sec)
```

Task 4:

select account_number from account a1 where not exists(select * from account a2 where a2.balance > a1.balance and a1.branch_name = a2.branch_name);

Task 5:

select loan.loan_number as loan_number, amount as loan_amount, customer_customer_name as customer_name from ((borrower inner join customer on borrower.customer_id = customer.customer_id) inner join loan on loan.loan_number = borrower.loan_number) order by amount, loan.loan_number desc limit 5;

Task 6:

select customer_customer_name from (((depositor inner join account on depositor.account_number = account.account_number) inner join borrower on depositor.customer_id = borrower.customer_id) inner join loan on loan.loan_number = borrower.loan_number) inner join customer on customer_id = borrower.customer_id where loan.branch_name = account.branch_name and loan.branch_name = 'Perryridge';

Task 7:

select customer_name, count(*) as total_loan from borrower inner join customer on borrower.customer_id = customer.customer_id group by borrower.customer_id having total_loan > 1;