

Database

Date: 8th Aug 2019
Submission Filename: [assign2.txt](#)

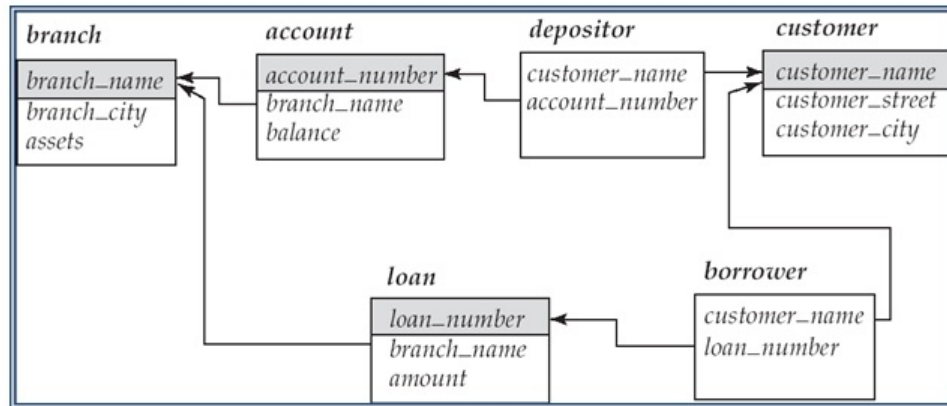
Assignment 2
Due Date: 8th Aug 2019 17:00

1 Assignment Overview

The learning objective of this assignment is for students to gain experience on writing SQL queries for creating a database and writing the queries in retrieving the desired result.

2 Task1

Consider the same banking database that you have used in the previous assignment. The shaded attributes in the following example denote key attribute in respective tables. Arrows indicate foreign key referencing pointer.



The schema of each of the tables are given as below

- *branch* <*branch_name* varchar(20), *branch_city* varchar(20), *assets* float(10,2)>
- *customer* <*customer_name* varchar(20), *customer_street* varchar(20), *customer_city* varchar(20)>
- *account* <*account_no* int(10), *branch_name* varchar(20), *balance* float(10,2)>
- *loan* <*loan_no* int(10), *branch_name* varchar(20), *amount* float(10,2)>
- *depositor* <*customer_name* varchar(20), *account_no* int(10)>
- *borrower* <*customer_name* varchar(20), *loan_no* int(10)>

Once the tables are created then insert a desired set of records in each table.

3 Task 2

Write queries using MySQL for performing the followings.

1. Find the loan number for each loan of an amount greater than 2000
2. Find the account no corresponding to the maximum balance
3. Find the name of all customers who have a loan at “Digha” branch and the loan amount
4. Find the name of the branches (from branch relation) with exactly one ‘a’
5. Find the name of all customers who have a loan, an account, or both, at “Frazer Road” branch
6. Find the name of customers who have accounts at the bank but do not have any loans
7. Find the name of the customers who have neither account nor loan at the bank

8. Find the details of the customers who have loans from `branch_city = 'Dhanbad'`
9. In 'Patna' city, find the name of the banks (i.e, `branch_name`) and the number of accounts of each branch
10. Find the total account balance (not assets) of each of the branches
11. Find the details (all attributes from customer table) of the customers who have more than one accounts
12. Find the name of the customers who have more than one account but those are from different branches

4 Submission

Write all the relevant MySQL queries that you have used to perform *Task 2*. Submit the queries using a txt file. While writing the queries, please ensure that you use the table names and attributes as given in the above specification as your queries will be evaluated on identical set of tables and columns. Pls, submit the assignment using the following submission link only.

<http://172.16.1.252/~samrat/CS355/submission/>