

Department of Electrical & Computer Engineering (ECE) Project- Individual

Assignment Title: Bank Management System

Course Title: Database Systems

Course Code: CSE 311

Submitted to:

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Section: 07

Dept: ECE (CSE)

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Assignment Title: Bank Management System

Description:

Suppose, I own a Bank, and I have stored all the information in account details schema. There are six tables in the account details schema. Those tables are account, borrower, branch, customer, depositor, and loan.

Account (account number, balance, branch name):

There is an account identified by account number. Total available balance at any given time represented by balance, and hosted branch name represented by branch name.

Borrower (customer name, loan number):

Each customer can take a loan from the bank against the loan number. A loan number can assign to multiple borrowers. If the same loan number is assign to multiple borrowers, this will represent a joint loan against that loan number.

Branch (branch name, branch city, asset):

A branch having a name is situate in a city having assets of a certain amount. There can be multiple branches in a city.

Customer (customer name, Customer Street, customer city):

A customer having a valid name lives at a street address in a city.

Depositor (account number, customer name):

A customer having a valid name has an account issued against an account number.

Loan (loan number, branch name, and amount):

Loan number identifies each loan, and each loan is issue by branch having branch name. Amount represents the issued total loan by a branch.

ER diagram:

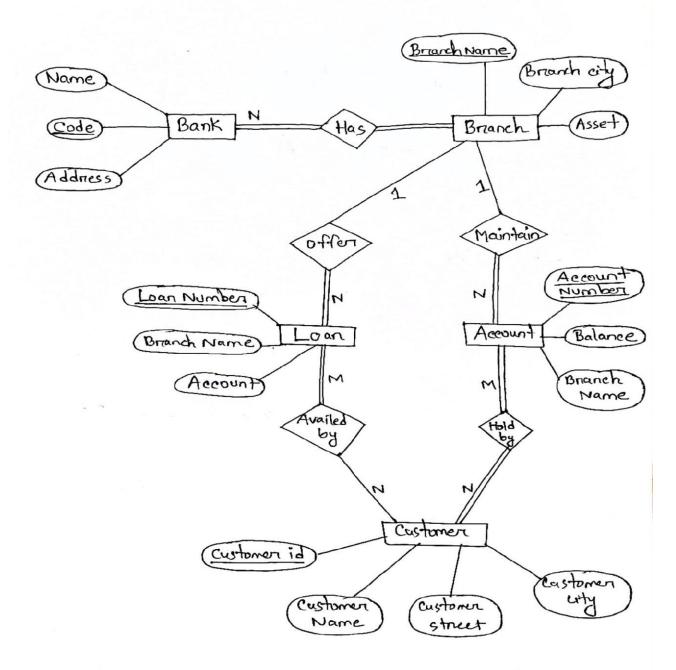


Fig: ER Diagnam of a Bank Management System.

Schema diagram:

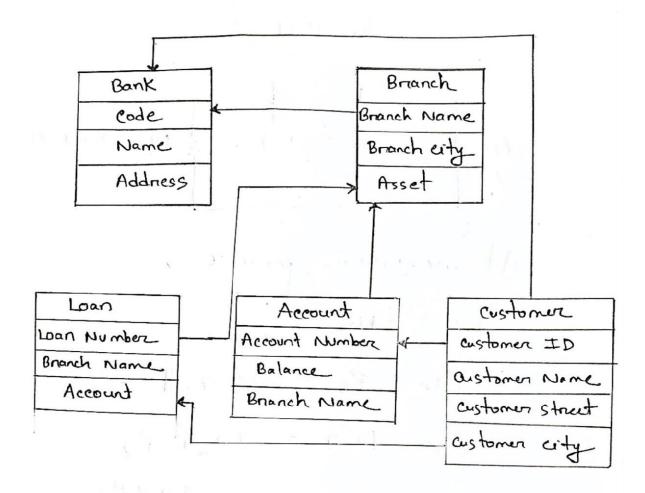


Fig: Schema Diagram or Bank Management System.

Ouery of Chapter 3:

Ouestion:

• Find out the customers' name, customers' city who have jointly borrowed a Loan.

• Find out the Average deposited amount of the customers having a name that starts with 'J'

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--Find out the Average deposited amount of the customers having a name that
--starts with 'J'

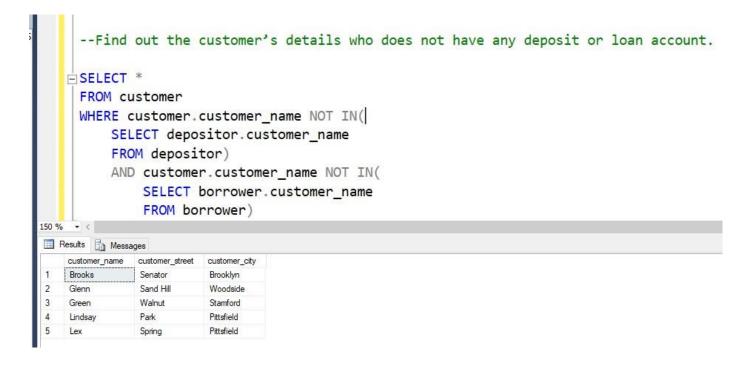
SELECT AVG(account.balance) AS 'AVERAGE BALANCE'

FROM depositor,account
WHERE depositor.account_number = account.account_number
AND customer_name LIKE 'J%'
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• List all the possible combinations of customer name and branch name. Sort the result based on the customer's name in descending order.

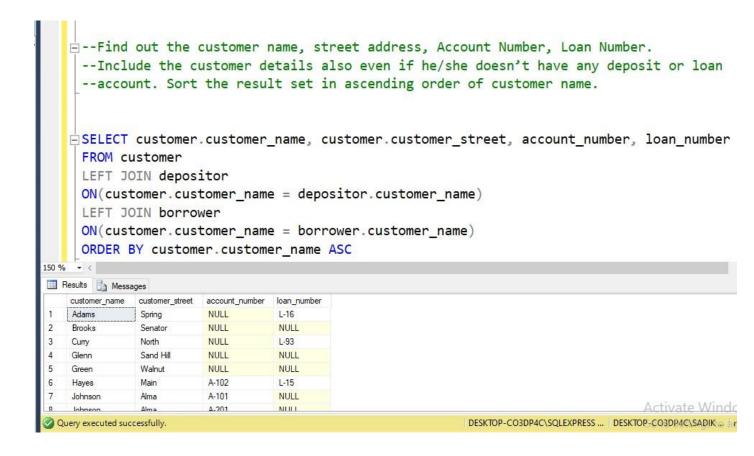


• Find out the customer's details who does not have any deposit or loan account.



• Find out the Total Asset, Total Loan, and Total Deposit of your Bank.

• Find out the customer name, street address, Account Number, Loan Number. Include the customer details also even if he/she does not have any deposit or loan account. Sort the result set in ascending order of customer name.



[NB: .SQL file is attached.]
