

Assignment 6

Please create following tables

- 1) BRANCH(BranchID, *branch_name*, *branch_city*, *assets*, *ModifiedDate*)
** *BranchID* and *branch_name* should be unique
** *assets* not NULL.
- 2) ACCOUNT(AccountID, BranchID, AccountNumber, AccountType, Balance, ModifiedDate),
PRIMARY KEY (AccountID), FOREIGN KEY (BranchID)
- 3) CUSTOMER(CustomerID, Name, Street, City, State, Zip, Country, ModifiedDate)
PRIMARY KEY (CustomerID)
- 4) LOAN(LoanID, AccountID, BranchID, LoanNumber, LoanType, Amount, ModifiedDate),
PRIMARY KEY (LoanID)
FOREIGN KEY (AccountID) REFERENCES ACCOUNT(AccountID) ON DELETE CASCADE,
FOREIGN KEY (BranchID) REFERENCES Branch(BranchID) ON DELETE CASCADE,
Loan Type = (Personal/Home/Car)
- 5) DEPOSITOR(CustomerID, AccountID, ModifiedDate),
PRIMARY KEY (CustomerID, AccountID),
FOREIGN KEY (AccountID) REFERENCES ACCOUNT(AccountID) ON DELETE CASCADE,
FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID)
- 6) BORROWER (CustomerID, LoanID, ModifiedDate) ,
PRIMARY KEY (CustomerID, LoanID) ,
FOREIGN KEY (CustomerID) REFERENCES Customer (CustomerID) ,
FOREIGN KEY (LoanID) REFERENCES Loan (LoanID)
- 7) TRANSACTION(TransactionID, AccountID, TranType, Amount, ModifiedDate),
PRIMARY KEY (TransactionID) ,
FOREIGN KEY (AccountID) REFERENCES ACCOUNT (AccountID) ON DELETE CASCADE
Tran Type can be (Loan payment/Loan Taken/Simple Deposit/Simple Withdraw)

You will need to:

- Insert atleast 8-10 entries in each table.

- Write the following queries

- 1) Update the balance of those customers by decreasing 3% of their balance whose balance is below 3000.
- 2) Delete the entry of customer whose balance is below 500 and **savepoint (sp1)**.
- 3) List all the customer details who have taken atleast 2 loans.
- 4) Delete the customers who have taken all 3 type of loans.
- 5) Execute rollback command till **sp1 and commit**.
- 6) Lock(read) the table Account and increase the balance of the customers by 5% whose balance > 10000.
- 7) Unlock the Account table and apply write lock on the same table(account). Then increase the balance of the customers by 5% whose balance > 10000.
- 8) Unlock all the tables.