Database project:

Bank Account Management System

Student Id : AF0401618 Student name : K. Varalaxmi

Student Id: AF0401618 Student name: K. Varalaxmi

Batch: C7971

Batch : C7971

Banking Account Management System:

A Banking Account Management System (BAMS) is a comprehensive software solution designed to facilitate the management of customer accounts, transactions, loans, and related banking operations. It plays a crucial role in modern banking by automating various processes, enhancing efficiency, and providing better customer service.

**Applications**

* **Commercial Banks**: Manage customer accounts, loans, and transactions for personal and business banking.
* **Credit Unions**: Provide account and loan management services for their members.
* **Fintech Companies**: Offer innovative banking solutions through mobile and online platforms.
* **Regulatory Bodies**: Monitor banking activities and ensure compliance with financial regulations.

**Entities:**

* Bank
* Branch
* Account
* Customer
* Transaction
* Loan

**Entities and Attributes:**

**Bank**

* + Bank\_ID (Primary Key).
  + Bank\_Name
  + Location

**Branch**

* + Branch ID (Primary Key).
  + Bank ID (Foreign Key).
  + Branch\_Name
  + Manager\_Name

**CustomerInfo**

* + CustomerID:(Primary Key).
  + CustomerName.
  + Address
  + PhoneNum

**AccountInfo**

* + AccountID(Primary Key).
  + AccountType
  + BranchID(Foreign Key).
  + CustomerID (Foreign Key).
  + Balance:

**Transation**

* + Transaction\_ID (Primary Key).
  + TransactionType
  + AccountID (Foreign Key).
  + Amount

**Loan**

* + LoanID (Primary Key).
  + LoanType
  + CustomerID (Foreign Key).
  + Amount

**Relationships**

**Bank to Branches: One-to-Many**

**Branches to AccountInfo: One-to-Many**

**CustomerInfo to AccountInfo: One-to-Many**

**AccountInfo to Transactions: One-to-Many**

**AccountInfo to Transactions: One-to-Many**

**CustomerInfo to Loan: One-to-Many**

**ER Diagram:**

BRANCHES

HAS

Bank

Maintain

CUSTOMERINFO

HAD

LOAN

TAKE

AVAILABLE

ACCOUNTS

TRANSACTION

