

Overview of MetroBank

MetroBank, established in the early 2000s, has grown into a significant regional player in the banking sector.

It offers a wide range of financial services including personal banking, business accounts, loans, and investment services.

With its expanding customer base and increasing number of transactions, MetroBank needs a robust database system to manage its operations efficiently.



Project Background:

You are a database administrator at MetroBank, a regional bank that is expanding its services. The bank wants to manage customer information, accounts, and transactions efficiently using a database system.

We have been hired to build and deploy a Relational database Management System (RDMS)



Customer Table

- CustomerID: A unique identifier for each customer (Primary Key).
- FirstName: The first name of the customer.
- LastName: The last name of the customer.
- DateOfBirth: The date of birth of the customer, useful for age-related services.
- Address: The current address of the customer, including street, city, and postal code.
- PhoneNumber: The customer's contact number.

Transactions Table

- TransactionID: A unique identifier for each transaction (Primary Key).
- AccountNumber: Links to the AccountNumber in the Accounts table (Foreign Key).
- TransactionType: Type of transaction (e.g., Deposit, Withdrawal).
- Amount: The monetary value of the transaction.
- TransactionDate: The date when the transaction occurred.

Employees Table

- EmployeeID: A unique identifier for each employee (Primary Key).
- Name: The full name of the employee.
- Position: The job title or position of the employee.
- BranchID: Links to the BranchID in the Branches table (Foreign Key).
- HireDate: The date when the employee was hired.

Accounts Table

- AccountNumber: A unique number identifying each account (Primary Key).
- CustomerID: Links to the CustomerID in the Customers table (Foreign Key).
- AccountType: Type of account (e.g., Savings, Checking).
- Balance: The current balance in the account.
- DateOpened: The date when the account was opened.

Loans Table

- LoanID: A unique identifier for each loan (Primary Key).
- CustomerID: Links to the CustomerID in the Customers table (Foreign Key).
- LoanAmount: The total amount of the loan.
- LoanType: The type of loan (e.g., Mortgage, Personal).
- IssueDate: The date when the loan was issued.
- InterestRate: The interest rate applicable to the loan.

Branches Table

- BranchID: A unique identifier for each branch (Primary Key).
- BranchName: The name of the branch.
- BranchAddress: The physical address of the branch.
- BranchPhoneNumber: The contact number for the branch.