

User (userID, Phone, Password, Address, Email, Name)

User_Phone (userID (FK), Phone)

User_Phone.userID references User.userID

Banker (Banker_ID, userID (FK))

Banker.userID references User.userID

Admin (Admin_ID, userID (FK))

Admin.userID references User.userID

Client (Client_ID, Account_ID (FK), userID (FK))

Client.userID references User.UserID

Client.Account_ID references Bank Account.Account_ID

Loan Application (Application Number, Loan Type, Status, Loan Amount, Application Date, Client_ID(FK))

LoanApplication.Client_ID references Client.Client_ID

Loan (Loan_ID, Loan Amount, Interest Rate, Monthly Payment, Client_ID (FK))

Loan.Client_ID references Client.Client_ID

Where loan. MonthlyPayment = ((interestRate+1) *loanAmount)/12

Bank Account (Account_ID, Account Type, Status (opened/closed), Account Open Date, Account Close Date, Balance, Client_ID (FK))

Bank Account.Client_ID references Client.Client_ID

Credit Card Bill (Bill_ID, Type, Amount, Card Number (FK) , Client_ID (FK))

Credit Card Bill.Card_Number references Credit Card.Card_Number

Credit Card Bill.Client_ID references Client.Client_ID

Credit Card (Card_Number, Card Type, Credit Limit, Client_ID (FK))

Credit Card.Client_ID references Client.Client_ID

Transactions (Transaction ID, Date, Amount, Client_ID (FK))

Transactions.Client_ID references Client.Client_ID

Credit Card Transactions (Credit Card Transaction ID, Transaction ID (FK), Card_Number (FK))

Credit Card Transactions.Card_Number references Credit Card.Card_Number

Credit Card Transactions. Transaction ID references Credit Transactions. Transaction ID

Bank Account Transactions (Bank Account Transaction ID, Transaction ID (FK), Account ID (FK))

Bank Account Transactions.Transaction_ID references Transactions.Transaction_ID

Bank Account Transactions.Account_ID references Bank Account.Account_ID

Payments (Payment_ID, Payment Due, Payment Type, Transaction_ID (FK))

Payments.Transaction_ID references Transactions.Transaction_ID

Bills (Bill_ID, Type, Amount, Due_Date, Client_ID (FK))

Bills.Client_ID references Client.Client_ID

Third Party App (App_ID, Name, Description)

ThirdPartyAppBills (Bill ID (FK), App_ID (FK) , Client_ID (FK))

ThirdPartyAppBills.Bill_ID references Bills.Bill_ID

ThirdPartyAppBills.App_ID references Third Party App.App_ID

ThirdPartyAppBills.Client_ID references Client.Client_ID

Technical Issues (Issue_ID, Status, Client ID (FK))

Technical Issues.Client_ID references Client.Client_ID

Report and apply for replacement (Report ID, Date Reported, Card_Number (FK))

Report and apply for replacement.Card_Number references Credit Card.Card_Number

Credit Card Points (Point ID, Points Cashback Ratio, Points Balance, Client ID (FK), Card_Number (FK))

Credit Card Points.Client_ID references Client.Client_ID

Credit Card Points.Card_Number references Credit Card.Card_Number

Credit Card Application (Application Number, Application Date, Credit Limit, Card Type, Status, Banker ID(FK), Client ID (FK))

Credit Card Application.Banker_ID references Banker.Banker_ID

Credit Card Application.Client_ID references Client.Client_ID

ThirdPartyAppPayment (Client_ID (FK) , Bill_ID (FK), App_ID (FK))

ThirdPartyAppPayment.Client_ID references Client.Client_ID

ThirdPartyAppPayment.Bill_ID references Bills.Bill_ID

ThirdPartyAppPayment.App_ID references ThirdPartyApp.App_ID

Notifications (Notifications_ID, Bank announcement, Status, Issue Resolution, Client_ID (FK))

Notifications.Client_ID references Client.Client_ID

Reminder (Reminder_ID, Date, Bill payment type, loans/credit card bills, Client_ID (FK))

Reminders.Client_ID references Client.Client_ID

Transfer (Transfer_ID, Amount, Beneficiary_ID (FK))

Transfer.Beneficiary_ID references Beneficiary.Beneficiary_ID

Domestic (Transfer_ID (FK))

Domestic.Transfer_ID references Transfer.Transfer_ID

Internal (Transfer_ID (FK))

Internal.Transfer_ID references Transfer.Transfer_ID

International (Transfer_ID (FK))

International.Transfer_ID references Transfer.Transfer_ID

Beneficiary (Beneficiary_ID, Amount Received, Amount Number)
