



SE Schema

Bank_Account(Account-Number, Card's-Number, Type, Balance)

Bank_Account.Card's-Number references Credit_Card

Web_Application_Account(Username, Password)

Employee_Account(Username, Password)

Guest(Guest-ID, Account-Number, Username)

Guest.Account-Number references Bank_Account

Guest.Username references Web_Application_Account

Onboarding_User(nationalID, Address, Name, Birthdate, age, Username, email)

Where Onboarding_User.age=Current date - Onboarding_User.Birthdate

Onboarding_User.Username references Web_Application_Account

Onboarding_User_Phone-Number(User,Phone-Number)

Onboarding_User_Phone-Number.User references Onboarding_User

Admin(Admin-ID, Personal_email, Name, Username)

Admin.Username references Web_Application_Account

Admin.Phone-Number(Admin,Phone-Number)

Admin.Phone-Number.Admin references Admin

Credit_Card(Card's-Number,CVV,Issue-Date,Expiry-Date,User_ID)

Credit_Card.User_ID references Onboarding_User

Points(Points-ID,Card's-Number,CVV,Expiry-Date,Value,Received-Date)

Points.(Card's-Number, CVV) references Credit_Card

Bills(Bill-ID,Status,Amount,Due-Date, issuance_date, Card's-Number,Loan-ID,User-ID)

Bills.Card's-Number references Credit_Card

Bills.Loan-ID references Loan

Bills.User-ID references OnBoarding_User

Loan(Loan-ID,Status,Amount,interest_rate, Banker-ID,User-ID)

Loan.Banker-ID references Banker

Loan.User-ID references OnBoarding_User

Banker(Banker-ID,Personal-Email,Name,Address,Username)

Banker.Username references Employee_Account

Banker.Phone-Number(Phone-Number,Banker)

Banker.Phone-Number.Banker references Banker

Reports(Report-ID, national_id, Type,Submission-Date,Status,Banker-ID)

Reports.national_id references onboarding_user

Reports.Banker-ID references Banker

Transaction(Transaction-ID,Receiver,Status,Date,User-ID,Card's-Number,Account-Number)

Transaction.User-ID references Onboarding_User

Transaction.Card's-Number references Credit_Card

Transaction.Account-Number references Bank_Account



