Primary Key: Underlined

Foreign Key: Highlighted Yellow

References: Foreground Color Red

BankAccount(<u>Account_Number</u>, <u>National_ID</u>, IBAN, Branch_Code, Balance)
BankAccount.National_ID references User.National_ID

InternationalTransfer(<u>Transfer_ID</u>, Amount, Timestamp, TransferType, SenderID, ReceiverID, <u>Account_Number</u>)

InternartionalTransfer.Account_Number references BankAccount.Account_Number

DomesticTransfer(<u>Transfer_ID</u>, Amount, Timestamp, TransferType, Sender_ID, Receiver_ID, <u>Account_Number</u>)

DomesticTransfer.Account_Number references BankAccount.Account_Number

InternalTransfer(<u>Transfer_ID</u>, Amount, Timestamp, TransferType, Sender_ID, Receiver_ID)

BankAccountInternalTransferBankAccount(<u>SenderAccountNumber</u>, <u>Transfer_ID</u>, <u>ReceiverAccountNumber</u>)
BankAccountInternalTransferBankAccount.SenderAccountNumber references BankAccount.Account_Number
BankAccountInternalTransferBankAccount.ReceiverAccountNumber references BankAccount.Account_Number
BankAccountInternalTransferBankAccount.Transfer_ID references InternalTransfer.Transfer_ID

Bank(<u>Name</u>, Bankers, Admins, Clients)
Constraint.Bank: Can only hold one record

CreditCard(<u>CardNumber</u>, CVV, Limit, Status, Points, Expiration_Date, Billing_Date, Debt, <u>Account_Number</u>) CreditCard.Account Number references BankAccount.Account Number

Loan(<u>LoanID</u>, Amount, Status, PaymentStartegy, RemainingDebt, InterestRate, MonthsToPay, Remaining_Debt, Account Number)

CreditCard.Account_Number references BankAccount.Account_Number

Pay(<u>Account_Number</u>, <u>Loan_ID</u>, Amount)
Pay.Account_Number references BankAccount.Account_Number
Pay.Loan_ID references Loan.Loan_ID

Transaction(<u>Transaction_Id.</u> Currency, Amount, Withdrawal_Account, Depositor_Account, Timestamp, <u>Account_Number</u>)

Transaction.Account Number references BankAccount.Account Number

LoanRequest(Request ID, Status, Amount, National ID, Account Number)
LoanRequest.Account_Number references BankAccount.Account_Number
LoanRequest.National ID references Banker.National ID

CreditCardRequest(Request_ID, Limit, Status, National_ID, Account_Number)
CreditCardRequest.Account_Number references BankAccount.Account_Number
CreditCardRequest.National_ID references Banker.National_ID

NonTechnicalReport(Report_ID, Client_ID, Banker_ID, Lost_Card_Number)

NonTechnicalReport.Banker_ID references Banker.National_ID

NonTechnicalReport.Client_ID references Client.National_ID

NonTechnicalReport.Lost Card Number references CreditCard.Card Number

TechnicalReport(Report_ID, Client_ID, Banker_ID, Admin_ID)

Client ID XOR Banker ID must be null

TechnicalReport.Admin_ID references Admin.National_ID

TechnicalReport.Client ID references Client.National ID

TechnicalReport.Banker ID references Banker.National ID

AdminTechnicalReport(Report ID, National ID)

AdminTechnicalReport.Report_ID references TechnicalReport.Report_ID

AdminTechnicalReport.National_ID references Admin.National_ID

Message(ID, Content, Timestamp, Report_ID)

Message.Report_ID references Report.Report_ID

Admin(<u>National_ID</u>, Phone_Number, Date_of_Birth, Fullname, Username, Password, Address, Email_Address, BName)

Admin.BName references Bank.BName

Banker(<u>National_ID</u>, Phone_Number, Date_of_Birth, Fullname, Username, Password, Address, Email_Address, BName)

Banker.BName references Bank.BName

Client(<u>National_ID</u>, Phone_Number, Date_of_Birth, Fullname, Username, Password, Address, Email_Address, Credit Score, <u>BName</u>)

Client.BName references Bank.BName

Reminders(<u>ID</u>, Timestamp, Type, Account_Number)

Reminders. Account Number references BankAccount. Account Number