

# Relational Schema

System\_User (username, password, fullName, BirthDate, SSN, Email, PhoneNo)

Admin (username, Admin\_ID, salary)

- - - - -

- Admin.username references System\_User.username

Banker (username, Banker\_ID, salary)

- - - - -

- Banker.username references System\_User.username

Client (username, Client\_ID)

- - - - -

- Client.username references System\_User.username

PointsPayments (p\_PayID, Client\_ID, username, PaymentDate, RedemedIN)

- - - - -

- PointsPayments.Client\_ID references Client.Client\_ID

- PointsPayments.username references Client.username

Points (P\_ID, Client\_ID, username, expiryDate, Amount, AcquiredDate)

- - - - -

- Points.Client\_ID references Client.Client\_ID

- Points.username references Client.username

Loan (L\_ID, Client\_ID, username, Amount, type, interestRate)

- - - - -

- Loan.Client\_ID references Client.Client\_ID

- Loan.username references Client.username

Credit\_Card (credit\_ID, Client\_ID, username, expiry\_date, cvv, maxAmount)

- - - - -

- Credit\_Card.Client\_ID references Client.Client\_ID

- Credit\_Card.username references Client.username

Bank\_Account (accountNo, Client\_ID, username, type, credit)

- - - - -

- Bank\_Account.Client\_ID references Client.Client\_ID

- Bank\_Account.username references Client.username

Requests (req\_ID, Client\_ID, username, Banker\_ID, requestDate,  
status, Message) - - - - -

- Requests.Client\_ID references Client.Client\_ID
- Requests.username references Client.username
- Requests.Banker\_ID references Banker.Banker\_ID

Reports (report\_ID, Client\_ID, username, Admin\_ID, requestDate,  
status, Message) - - - - -

- Reports.Client\_ID references Client.Client\_ID
- Reports.username references Client.username
- Reports.Admin\_ID references Admin.Banker\_ID

Transactions (transID, accountNo, amount, date, receiver, paymentStatus,  
dueTime) - - - - -

- Transactions.accountNo references Bank\_Account.accountNo

Bill\_Payment (transID, billSource)

Credit\_CardPayment (transID, credit\_ID, partially/fully)  
- - - - -

- Credit\_CardPayment.credit\_ID references Credit\_Card.credit\_ID

Loan\_Payment (transID, L\_ID, Installment\_amount, Installment\_Date)  
- - -

- Loan\_Payment.L\_ID references Loan.L\_ID

Transfers (transferID, accountNo, amount, date)  
- - - - -

- Transfers.accountNo references Bank\_Account.accountNo

Beneficiary (SSN, fullName, type)

Internal (transferID, SSN)  
- - - -

- Internal.SSN references Beneficiary.SSN

Domestic (transferID, SSN, bankName)

- - - -

- Domestic.SSN references Beneficiary.SSN

International (transferID, SSN, bankName, country)

- - - -

- International.SSN references Beneficiary.SSN

Purchases (transID)

- - - -

Purchases.transID references Transactions.transID)