

Relational Schema

Users (user_id, username, email, password, first_name, last_name, address, phone_number, isClient, isBanker, isAdmin)

Clients (user_id, national_id)

Clients.user_id references Users

Bankers (user_id, branch_id, role, hire_date, salary)

Bankers.user_id references Users

Admins (user_id, access_level, department)

Admins.user_id references Users

BankAccounts (account_number, client_id, account_type, balance, status)

BankAccounts.client_id references Users

CreditCards (card_number, client_id, card_type, expiration_date,

credit_limit, points, status)

CreditCards.client_id references Users

Loans (loan_id, client_id, loan_type, amount, interest_rate, duration, status)

Loans.client_id references Users

Transactions (transaction_id, account_id, card_id, amount, date,

transaction_type, status)

Transactions.account_id references BankAccounts

Transactions.card_id references CreditCards

Transfers (transaction_id, source_account, destination_account,

transfer_type)

Transfers.transaction_id references Transactions

BillPayments (transaction_id, bill_type, bill_provider)

Transfers.transaction_id references Transactions

Donations (transaction_id, charity_id)

Transfers.transaction_id references Transactions

Reports (report_id, client_id, report_type, description, status,

submission_date, resolution_date, reviewed_by)

Reports.client_id references Clients

Reports.reviewed_by references Admins