

Banking System Schema

User(username, password)

Admin(username, admin_id, name)

Banker(username, banker_id, name)

Client Profile(username, client_id)

-Client Profile.client_id references Client.client_id

Client(client_id, full_name, nationa_id, phone_num, address, email, gender, birth_date)

Bank Account(account_id, IBAN, type, currency, balance, status, client_id)

-Bank Account.client_id references Client.client_id

Credit Card(card_id, card_number, issue_date, expiry_date, ccv, points, client_id)

-Credit Card.client_id references Client.client_id

Account Transaction(transaction_id, type, amount, timestamp, status, account_id)

-Account Transaction.account_id references Bank Account.account_id

Credit Card Transaction(transaction_id, type, amount, timestamp, status, card_id)

-Credit Card Transaction.card_id references Credit Card.card_id

Internal Transfer(transfer_id, amount, timestamp, status, sender_acc_id, receiver_acc_id)

-Internal Transfer.sender_acc_id references Bank Account.account_id

-Internal Transfer.receiver_acc_id references Bank Account.account_id

External Transfer(transfer_id, amount, timestamp, status, account_id, receipient_IBAN, BIC)

-External Transfer.account_id references Bank Account.account_id

Loan(loan_id, amount, start_date, end_date, num_of_installments, interest_rate, client_id)

-Loan.client_id references Client.client_id

Personal Loan(loan_id, type)

Car Loan(loan_id, car_model)

Bill(bill_id, amount, due_date, status, client_id)

-Bill.client_id references Client.client_id

Utility Bill(bill_id, type, receipient_IBAN)

Credit Card Bill(bill_id, type, card_id)

-Credit Card Bill.card_id references Credit Card.card_id

Loan Bill(bill_id, loan_id)

-Loan Bill.loan_id references Loan.loan_id

Bill Reminder(reminder_id, date, time, description, client_id, bill_id)

-Bill Reminder.client_id references Client.client_id

-Bill Reminder.bill_id references Bill.bill_id

Bank Announcement(announcement_id, category, content, timestamp, banker_id)

-Bank Annoucement.banker_id references Banker.banker_id

Client Request(request_id, status, timestamp, client_id, banker_id)

- Client Request.client_id references Client.client_id
- Client Request.banker_id references Banker.banker_id

Credit Card Request(request_id, annual_income)

Loan Request(request_id, amount)

Card Replacement Request(request_id, old_card_id)

- Card Replacement Request.old_card_id references Credit Card.card_id

Client Request Supervisor(request_id, banker_id)

- Client Request Supervisor.request_id references Client Request.request_id
- Client Request Supervisor.banker_id references Banker.banker_id

Client Report(report_id, report_content, timestamp, status, client_id)

- Client Report.client_id references Client.client_id

Credit Card Report(report_id, banker_id)

- Credit Card Report.banker_id references Banker.banker_id

Technical Report(report_id, admin_id)

- Technical Report.admin_id references Admin.admin_id

Credit Card Report Supervisor(report_id, banker_id)

- Credit Card Report Supervisor.report_id references Credit Card Report.report_id
- Credit Card Report Supervisor.banker_id references Banker.banker_id

Technical Report Supervisor(report_id, admin_id)

- Technical Report Supervisor.report_id references Technical Report.report_id
- Technical Report Supervisor.admin_id references Admin.admin_id