Banking System Schema

User(<u>username</u>, password, email, phone)

Register_Request(<u>request_id</u>, client_id, admin_id, status)
Register_Request(client_id) references Client(client_id)
Register_Request(admin_id) references Admin(admin_id)

Client(<u>client_id</u> , <u>username</u>)
Client(username) references User(username)

Banker(<u>banker_id</u> , <u>username</u>)
Banker(username) references User(username)

Admin(<u>admin_id</u>, <u>username</u>)
Admin(username) references User(username)

Visually_Impaired_Client(<u>visually_impaired_id</u> , <u>username</u> , biometric_password)
Visually_Impaired_Client(username) references User(username)

Bank_Account (<u>account_id</u>, account_type, balance, client_id)
Bank_Account(client_id) references Client(client_id)

Credit_Card(<u>card_id</u>, expiration_date, cvv, credit_limit, balance, client_id)
Credit_Card(client_id) references Client(client_id)

Credit_Card_Points(<u>points_id</u> , card_id , date, amount, points)
Credit_Card_Points(card_id) references Credit_Card(card_id)

CashBack_Redemption(<u>cashback_id</u>, points_id, date_redeemed, cashback_amount)
                      - - - - - - - - -
CashBack_Redemption(points_id) references Credit_Card_Points(points_id)

Credit_Card_Transaction(<u>transaction_id</u> , transaction_date, amount, description, card_id)
                                                            - - - - - - - - -
Credit_Card_Transaction(card_id) references Credit_Card(card_id)

Credit_Card_Bill(<u>bill_id</u>, card_id, amount, due_date)
                     - - - - - - - - -
Credit_Card_Bill(card_id) references Credit_Card(card_id)

Credit_Card_Report(<u>report_id</u>, card_id, date, type)
                     - - - - - - - - -
Credit_Card_Report(card_id) references Credit_Card(card_id)

Credit_Card_Request(<u>request_id</u>, client_id, banker_id, card_id, status)
                          -
Credit_Card_Request(client_id) references Client(client_id)
Credit_Card_Request(banker_id) references Banker(banker_id)
Credit_Card_Request(card_id) references Credit Card(card_id)

ReplacementRequest(<u>request_id</u>, report_id, request_date, status)
                       - - - - - - - - - - -
ReplacementRequest(report_id) references Credit_Card_Report(report_id)

Loan(<u>loan_id</u>, loan_type, amount, interest_rate, duration, start_date, end_date, account_id)
                                                                      - - - - - - - - - - - -
Loan(account_id) references Bank_Account(account_id)

Loan_Payment(<u>payment_id</u> , amount, payment_date, loan_id)
                                  - - - - - - - - -
Loan_Payment(loan_id) references Loan(loan_id)

Loan_Request(<u>request_id</u>, client_id, banker_id, loan_id, status)
                          -
Loan_Request(client_id) references Client(client_id)
Loan_Request(banker_id) references Banker(banker_id)
Loan_Request(loan_id) references Loan(loan_id)

Transactions(transaction_id , transaction_date, amount, description, account_id)

Transactions(account_id) references Bank_Account (account_id)

Money_Transfer(transfer_id, transfer_type, amount, payee_name, payee_account_number, date_issued, account_id)

Money_Transfer(account_id) references Bank_Account(account_id)

Bill(bill_id, bill_type, due_date, amount, account_id)

Bill(account_id) references Bank_Account (account_id)

Bill_Payment (payment_id, amount, payment_date, payment_type , bill_id)

Bill_Payment (bill_id) references Bill(bill_id)

Reminder(reminder_id , reminder_date, description, client_id)

Reminder(client_id) references Client(client_id)

Issue(issue_id, description, client_id)

Issue(client_id) references Client(client_id)

System_Notification(notication_id, client_id, admin_id, banker_id, description, date)

System_Notification(client_id) references Client(client_id)
System_Notification(admin_id) references Admin(admin_id)
System_Notification(banker_id) references Banker(banker_id)

Account_Notification(notication_id, client_id, account_id, description, date)

Account_Notification(client_id) references Client(client_id)
Account_Notification(account_id) references Bank_Account(account_id)