User(username, password)

Admin(username (FK), name)

Admin.username references User.username

Client(username(FK), national id, name, DOB, phone number, address, banker\_username (FK))

Client.username references User.username

Client.banker\_username references Banker.username

Banker(username(FK), employee id, name, email)

Banker.username references User.username

Transaction(transaction id, date, amount, type, banker\_username (FK), owner\_username (FK))

Transaction.owner\_username references Client.username

Transaction.banker\_username references Banker.username

CreditCardTransaction(transaction id(FK), credit\_card\_number )

CreditCardTransaction.transaction\_id references Transaction.transaction\_id

BankAccountTransaction(transaction\_id(FK), account number (FK))

BankAccountTransaction.transaction\_id references Transaction.transaction\_id

Request(request\_id, date, client\_username (FK), banker\_username(FK))

Request.client\_username references Client.username

Request.banker\_username references Banker.username

CreditCardApplication(request\_id(FK), monthly\_salary, limit, username (FK))

CreditCardApplication.request\_ID references Request.request\_id

CreditCardApplication.username references Client.username

LoanApplication(request\_id(FK), account number, purpose, collateral, date, type, amount, username (FK))

LoanApplication.request\_ID references Request.request\_id

LoanApplication.username references Client.username

Notification(notification\_id, message, type, admin\_username (FK))

Notification.username references Admin.username

Reminder(reminder\_id, message, category, client\_username (FK))

Reminder.client\_username references client.username

CreditCard(Credit\_Card\_Number, expiry\_date, CVV, PIN, amount, limit, transaction\_history, state, banker\_username (FK), owner\_username (FK))

CreditCard.owner\_username references Client.username

CreditCard.banker\_username references Banker.username

Points(Credit\_Card\_Number (FK), amount, expiry date)

Points.credit\_card\_number references CreditCard.credit\_card\_number

Loan(loan\_id, type, date, total\_amount, remaining\_amount, client\_username (FK))

Loan.username references client.username

Transfer(transfer\_id, amount, reason, time, date)

InternalTransfer(transfer\_id(FK))

InternalTransfer.transfer\_id references Transfer.transfer\_id

DomesticTransfer(transfer\_id (FK), receiver IBAN, receiver SWIFT)

DomesticTransfer.transfer\_id references Transfer.transfer\_id

InternationalTransfer(transfer\_id (FK), destination country, fee, amount in foreign currency)

InternationalTransfer.transfer\_id references Transfer.transfer\_id

Bill(bill\_id, date, deadline, type, total\_amount, paid\_amount, outstanding\_amount)

BankAccount(account\_number, type, IBAN, balance, blocked, owner\_username(FK), open/close\_username (FK))

BankAccount.owner\_username references client.username

BankAccount.open/close\_username references client.username

Report(report\_id, message, reason, banker\_username (FK), client\_username(FK))

report.client\_username references Client.username

report.banker\_username references Banker.username

TechnicalIssue(report\_id(FK), message, username(FK))

TechnicalIssue.report\_id references Report.report\_id

TechnicalIssue.username references Admin.username

CreditCardIssue(report\_id(FK), credit\_card\_number)

CreditCardIssue.report\_id references report.report\_id

pays(username (FK), bill\_id (FK), account\_number (FK))

pays.username references client.username

pays.bill\_id references bill.bill\_id

pays.account\_number references bankAccount.account\_number

transfers(sender\_account\_number (FK), receiver\_account\_number (FK), transfer\_id (FK))

transfers.sender\_account\_number references bankAccount.account\_number

transfers.receiver\_account\_number references bankAccount.account\_number

transfers.transfer\_id references transfer.transfer\_id

receivesNotification(notification\_ID (FK), username(FK))

receivesNotification.notification\_ID references Notification.notification\_ID

receivesNotification.username references User.username