

## Relational schema

Banker (banker\_id, name)

Client (client\_id, national\_id, name, date\_of\_birth, username, password)

Application (application\_id, national\_id, name, date\_of\_birth, gender, email, phone, address, documents, banker\_id, client\_id)

Application.banker\_id references Banker.banker\_id

Application.client\_id references Client.client\_id

Credit\_Card\_Application (application\_id, national\_id)

Loan\_Application (application\_id, national\_id)

Credit\_Card\_Replacement\_Application (application\_id, national\_id)

Credit\_Card (credit\_card\_number, client\_id, amount, type, interest\_rate, expiration\_date, status)

Credit\_Card.client\_id references Client.client\_id

Loan (loan\_id, client\_id, amount, interest\_rate, duration)

Loan.client\_id references Client.client\_id

Personal (loan\_id)

Car (loan\_id)

Reminders (reminder\_id, client\_id, type\_of\_payment, amount, date, status)

Reminders.client\_id references Client.client\_id

Reports (report\_id, client\_id, date, description)

Reports.client\_id references Client.client\_id

Technical\_Issues (report\_id)

Credit\_Card\_Loss (report\_id)

Credit\_Card\_Theft (report\_id)

Credit\_Card\_Damage (report\_id)

Account (account\_num, client\_id, balance, type, status)

Account.client\_id references Client.client\_id

Transactions (transaction\_id, client\_id, account\_num, credit\_card\_number, date, amount, type)

Transactions.client\_id references Client.client\_id

Transactions.account\_num references Account.account\_num

Transactions.credit\_card\_number references Credit\_Card.credit\_card\_number

Points (client\_id, account\_num, points\_available, cashback\_amount, status)

Points.client\_id references Client.client\_id

Points.account\_num references Account.account\_num

Credit\_Card\_Payment (payment\_id, client\_id, account\_num, credit\_card\_number, amount, date, partial, full)

Credit\_Card\_Payment.client\_id references Client.client\_id

Credit\_Card\_Payment.account\_num references Account.account\_num

Credit\_Card\_Payment.credit\_card\_number references Credit\_Card.credit\_card\_number

Loan\_Payment (payment\_id, client\_id, account\_num, loan\_id, amount, date)

Loan\_Payment.client\_id references Client.client\_id

Loan\_Payment.account\_num references Account.account\_num

Loan\_Payment.loan\_id references Loan.loan\_id

Third\_Party\_App (third\_party\_app\_id, name)

Bills (bill\_id, client\_id, account\_num, third\_party\_app\_id, amount, date)

Bills.client\_id references Client.client\_id

Bills.account\_num references Account.account\_num

Bills.third\_party\_app\_id references Third\_Party\_App.third\_party\_app\_id

Gas (bill\_id)

Water (bill\_id)

Electricity (bill\_id)

Telephone (bill\_id)

Beneficiary (beneficiary\_id, beneficiary\_account\_num, bank\_name, country)

Transfer (transfer\_id, client\_id, account number, beneficiary\_id, beneficiary\_account\_num, amount, currency, date, country)

Transfer.client\_id references Client.client\_id

Transfer.account\_number references Account.account\_num

Transfer.beneficiary\_id references Beneficiary.beneficiary\_id

Transfer.beneficiary\_account\_num references Beneficiary.beneficiary\_account\_num

Owned (transfer\_id)

Internal (transfer\_id)

Domestic (transfer\_id)

International (transfer\_id)