

Relational Schema

Client (username)

client. Username references user. Username

Banker (username)

Banker. Username references user. Username

Transfer (Transfer ID, date, amount, IBAN)

Transfer. IBAN references Bank account. IBAN

Credit Card (Card number, expiration date, security code, credit limit, holder name, username(FK))

Credit card. username references client.username

Bank Account (IBAN, account number, balance, account type, username(FK) , B.username)

Bank account. Username references client. Username

Bank account.B.username references banker. Username

Own (transfer ID (FK), IBAN)

Own. Transfer Id references transfer. Transfer ID

Own. IBAN references Bank account. IBAN

Bills (Bills ID, amount, payment ID)

Bills. Payment Id references billPayment. Payment ID

Reports (Report number, date)

Theft/loss/damage (report number (FK), username)

Theft/loss/damage. Username references banker. Username

Theft/loss/damage. Report number references reports. Report number

Loan (Loan Id, Loan amount, interest rate, loan type, payment Id, username(FK))

Loan. Payment ID references loanPayment. Payment Id

Loan.username reference client.username

Internal (Transfer Id (FK), account number, account type, IBAN)

Internal. Transfer Id references transfer. Transfer ID

Internal. IBAN references Bank account. IBAN

Credit bills (billsID)

Credit bills.billsID reference bills.billsID

Technical issues (report number, username(FK))

Technical issues._report number references report. report number

Technical issues. Username references admin. Username

Involved (Payment ID(FK), Transaction ID (FK))

Involved. Payment ID references Payment. Payment Id

Involved. Transaction ID references Transaction. Transaction ID

Transaction (Transaction ID, amount, date, receiver name, sender name)

Transaction-Transfer (TransactionID, TransferID)

Transaction-Transfer.TransactionId reference transaction.TrnsactionID

Transaction-Transfer.TransferId reference Transfer.TransferID

Domestic (Transfer Id, swift code, account number, account type)

Domestic. Transfer Id references transfer. Transfer ID

Service Bills (billsID)

service bills.billsID reference bills.billsID

Points (point balance, expiry date, transaction ID)

Points. transaction ID references Transaction. Transaction ID

International (Transfer Id, account number, account type, swift code)

International. Transfer Id references transfer. Transfer ID

User (username, password)

Payment (Payment Id, payment amount, payment date, payment method, username(FK))

Payment.username reference client.username

Payment-Transaction(paymentID, TransactionID)

Payment-Transaction.paymentID reference payment. paymentID

Payment-Transaction.transacationID reference transaction.TransactionID

Reminder (reminder Id, notification, due date, type, username(FK))

reminder.username reference client.username

Payment-Reminder(reminderID, paymentID)

Payment-Reminder.reminderID reference reminder.reminderID

Payment-Reminder.paymentID reference payment. paymentID

Admin (username)

Admin. Username references user. Username

Loan Payment (Payment Id)

Loan Payment. Payment Id references Payment. Payment Id

Involves (Transaction ID, Transfer Id)

Involves. Transaction ID references Transaction. Transaction ID

Involves. Transfer Id references transfer. Transfer ID

Associated with (Payment ID, Reminder Id)

Associated with. Payment ID references Payment. Payment Id

Associated with. Reminder Id. References Reminder. Reminder Id

Bill Payment (Payment ID)

Bill Payment. Payment ID references Payment. Payment Id

