Relational schema

System user (username, password) Customer (national id, name, username, password, age, address) Customer(username) references to system user(username) Customer(password) references to system_user(password) Banker (banker id, name, position, salary, username, address) Customer(username) references to system user(username) Customer(password) references to system user(password) Admin (admin id, name, username, age, address) Customer(username) references to system_user(username) Customer(password) references to system user(password) Bank account(account no, currency, status, amount, type, national id, username) National id references national id in customer Bankaccount(username) references to customer(username) Bank req (<u>username</u>, <u>national id</u>, <u>req id</u>, state) Bankaccount(username) references to customer(username) National id references national id in customer Reg id references account no bank Bank transfer (transfer id, amount, sender id, receiver id) Sender id references national id in customer Receiver id references national id customer Own account (transfer id, credit no) External (transfer id, BAN) Domestic (transfer id) Bill payment (transfer id , type of bill, method) International (transfer id, IBAN) Donations (transfer id, method, Organization name) Credit card (card no ,amount , type ,points, account no) Account no references account no in bank account Cheques (cheques id, start date, end date, account no) Account no references account no in bank account Loan (loan id, total amount, remainder amount, due date, loan type, due loan amount,

national id, account no)

National_id references national_id in bank account

Account no references account no in bank account

certificate (national id ,certificate id ,amount, percentage, paid interest duration, period)

certificate Nationalid References national id in customer National_Id