We want to build a “Money Bank” banking system.

In the system;

Money Bank has customers. Customers identified by their, customer_id, customer_name, customer_address, customer_email, customer_phone_number. In addition, we divide customers into two; Retail Customers and Corporate Customers. “Retail Customers” is a “Customers” and “Corporate Customers” is a “Customers”. Retail Customers identified by their, card_transaction, reatil_customer_identity_number, retail_customer_age, retail_customer_gender. Corporate Customers identified by their, corporate_company_tax_number, corporate_company_employee

Customers deposit into their accounts. Account identified by their account_id, account_name, account_base_amount, account_interest_rate.

Customers borrow to take out loans. Loan identified by their, loan_id, loan_name, loan_amount. In addition, we divide Loan into three; Personal Finance Loan, House Loan and Vehicle Loan. “Personal Finance Loan” is a “Loan”, “House Loan” is a “Loan” and “Vehicle Loan” is a “Loan”. Personal Finance Loan identified by their personal_finance_loan_interest_rate_annual, House Loan identified by their house_loan_ interest_rate_annual. Vehicle Loan identified by their vehicle_loan_interest_rate_annual.

Employees serve customers. Employees identified by their, employee_id, employee_name, employee_identity_number, employee_dept, employee_adress, employee_email, employee_phone_number, employee_gender.

Employees work for branch. Branch identified by their, branch_id, branch_name, branch_city.

Banks have branches. Bank identified by their, bank_id, bank_name.

Accounts have branches.

Branches provide loans.

Loan paid as through a weak entity payment. Payment identified by their, payment_id, payment_date, paymet_amount.

This banking system will be used by Customers and Employees.

There is a *many-to-one* relationship between Payment and Loan. One or more payments must be made on the loan, but each payment is made on a single loan.

There is a *many-to-many* relationship between Branch and Loan. Each branch can give more than one loan, each loan can be taken from many branches.

There is a *many-to-one* relationship between Account and Branch. Each account must be affiliated with at least one branch, and each branch must have at least one account.

There is a *many-to-one* relationship between Branch and Employee. Each branch must have at least one employee, but each employee can only work in one branch.

There is a *many-to-many* relationship between Customers and Employee. Every employee can serve every customer.

There is a *many-to-many* relationship between Customer and Account. Each customer can have multiple accounts. Customers can trade on any account they want.

There is a *many-to-many* relationship between Customer and Loan. Each customer can take as many credits as they want.

There is a *many-to-one* relationship between Bank and Branch. Each bank must be affiliated with at least one branch, but each branch is linked with a single bank.