Data Structures

BANK\_EMPLOYEE

* EMP\_ID(PK) - Int
  + Unique ID to differentiate employees
* FIRST\_NAME - String
  + Employee’s first name
* LAST\_NAME - String
  + Employee’s last name
* PASSWORD - String
  + Employee’s password
* MANAGER - Boolean
  + Differentiates a teller from a manager

CUSTOMER

* CUST\_ID(PK) - Int
  + Unique ID to differentiate customers
* SSN - Int
  + Customer’s social security number
* ADDRESS - String
  + Customer’s address
* STATE - String
  + Customer’s state
* ZIP\_CODE - Int
  + Customer’s zip code
* LAST\_NAME - String
  + Customer’s last name
* FIRST\_NAME - String
  + Customer’s first name

ACCOUNTS

* CUST\_ID(PK, FK) - Int
  + Unique ID to differentiate customers
* LOAN ~ TODO
* SAVING ~ TODO
* CHECKING ~ TODO

SAVINGS

* SAVING\_ID(PK) - Int
  + Unique ID to differentiate savings accounts
* CUST\_ID(FK) - Int
  + Unique ID to differentiate customers
* SAVINGS\_TYPE - String
  + Differentiates between simple savings and CDs
* APY - Double
  + Annual percentage yield
* BALANCE - Double
  + Amount in the account
* TERM\_START ~ TODO
* TERM\_END ~ TODO

CHECKING

* CHECKING\_ID(PK) - Int
  + Unique ID to differentiate checking accounts
* CUST\_ID(FK) - Int
  + Unique ID to differentiate customers
* CHECKING\_TYPE - String
  + Differentiates between That’s my Bank and Gold/Diamond accounts
* DRAFT\_PROT ~ TODO
* BALANCE - Double
  + Amount in the account
* ATM ~ TODO

ATM\_CARD

* CHECKING\_ID(PK, FK) - Int
  + Unique ID to differentiate checking accounts
* ATM\_PIN - Int
  + Pin

LOANS

* LOAN\_ID(PK) - Int
  + Unique ID to differentiate loan accounts
* CUST\_ID(FK) - Int
  + Unique ID to differentiate customers
* BALANCE - Double
  + Amount left to pay
* APR - Double
  + Annual percentage rate
* DATE\_PAY\_DUE ~ TODO
* DATE\_NOTIFIED ~ TODO
* CUR\_PAYMENT - Double
  + Current amount being paid
* DATE\_LAST\_PAID ~ TODO
* MISSED\_PAY - Boolean
  + Flags whether the customer missed a payment or not
* LOAN\_TYPE - String
  + Differentiates between the types of loans
* CREDIT\_LIMIT - Double
  + Amount that can be spent on credit
* MONTHS\_LEFT - Int
  + Months left for loan to be paid