Well Money Bank
Logical Database Design

User

PK	**UserId**
	UserType
	FirstName
	LastName
	Password
	Email
	CustomerType

PhoneNumber

PK	**PhoneNumber**
PK,FK	**UserId**

SecurityQuestion

PK,FK	**UserId**
PK	**Question**
	Answer

UserAccount

PK, FK	**UserId**
PK, FK	**AccountNumber**

Branch

PK	**BranchNumber**
FK	Manager
	StreetAddress
	City
	State

Account

PK	**AccountNumber**
	AccountType
FK	MainBranch
	ServiceFee
	/Balance

Transaction
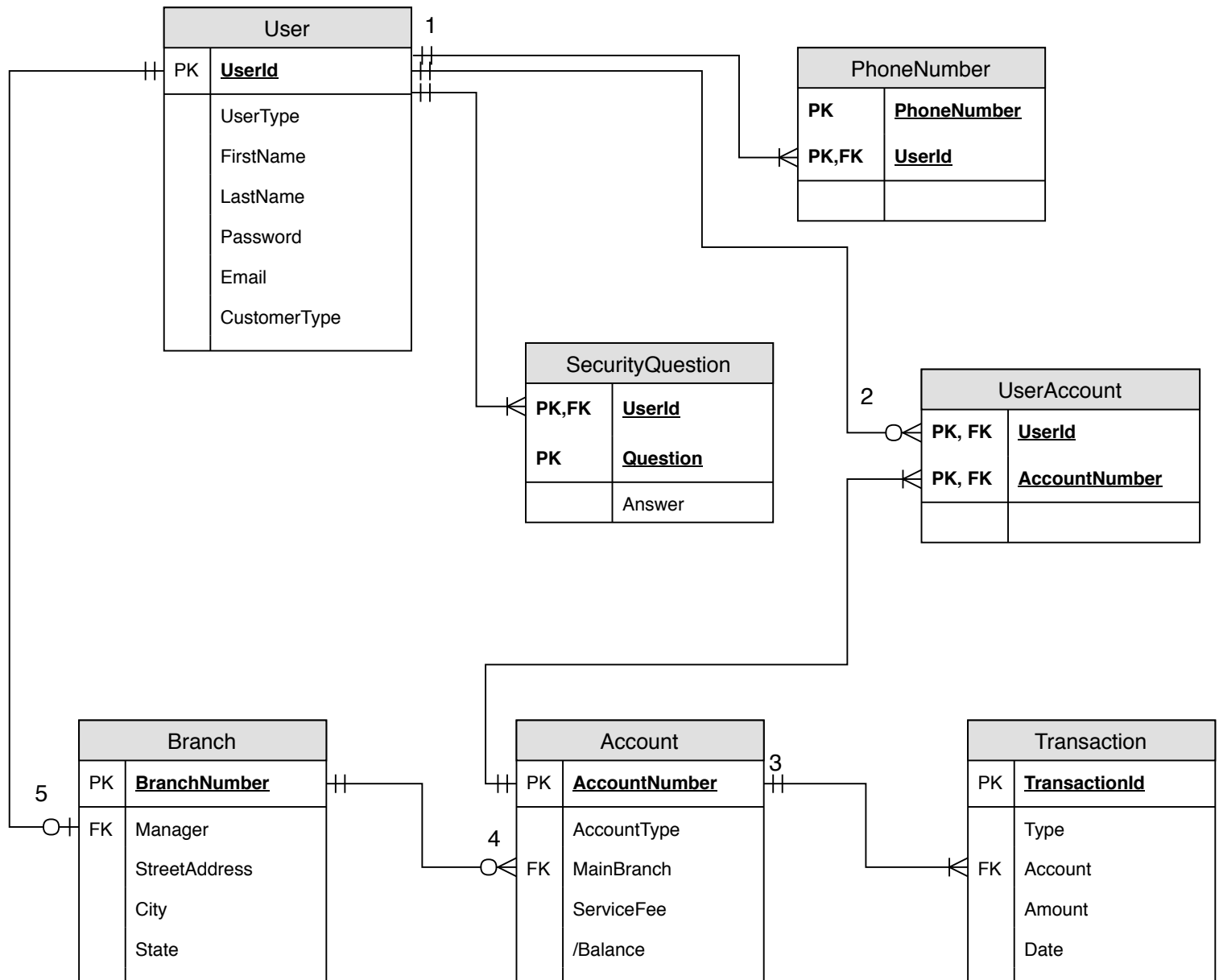
PK	**TransactionId**
	Type
FK	Account
	Amount
	Date

1 A Phone Number is related to exactly one User:
Phone numbers might not be unique but each phone entry is associated with exactly one customer.

2 A User is related to zero, one, or many Accounts
A user can be in the system without an account

3 Each Transaction (Deposit, Withdrawal, and Payment) is related to exactly one Account.
It is not possible to do a transaction without specifying which account the money is to come from or go to

4 A Branch can be related to zero, one, or many Accounts
A branch can start with zero accounts
A branch can have many accounts

5 An Employee can manage zero or one Branches
Some employees are not managers
If an employee is a manager of one branch, they cannot be a manager of another branch