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IS 215

ERD Workshop

RightDown Publishing

ER Diagram:

Book (ISBN (PK), Publish\_Year, Publisher, Price, Pages, **Author (FK)**)

Author (Author\_ID (PK), Author\_Name, Author\_Email, Author\_Number)

Customer (Customer\_ID (PK), Customer\_Type, Customer\_Name, Customer\_Address, Customer\_Email, Customer\_Number)

Sales\_Manager (Manager\_ID (PK), Name, Email, Phone\_Number, Address)

Sales\_Rep (Rep\_ID (PK), Name, Email, Phone\_Number, Address, Commision\_Rate)

* This diagram is based on assuming that All rep is paid different commissions on their sales.

Piggy National Bank

1. ER Diagram:

Customer (Customer ID (PK, AI), Cust\_Name, Cust\_ID\_Proof\_Number, Cust\_Address, Cust\_Age, Cust\_Phone\_Num, Cust\_Email)

Account (Account\_Number**, Customer\_ID (FK),** **Account\_Type (FK),** Balance, Creation\_Date)

Transaction (Transaction\_ID (PK), **Account\_Number (FK),** **Customer\_ID (FK),** Balance, Transaction\_Type, Charge)

Checking Account (**Account\_Number (PK, FK),** Min\_Deposit, Interest\_Rate, Service\_Charge)

Savings Account (**Account\_Number (PK, FK),** Min\_Deposit, Interest\_Rate, Service\_Charge)

Equity Account (**Account\_Number (PK, FK),** Min\_Deposit, Interest\_Rate, Service\_Charge)

Loan Account (**Account\_Number (PK, FK),** Min\_Deposit, Interest\_Rate, Service\_Charge, Loan\_Type)

1. To account for the different type of loans, the model has a row named Loan\_Type to accommodate for the different types of loans.
2. To add support for personal joint account, the ER diagram would have to add another account type table, which has two customers\_ID, and the transaction table would have to be modified a bit as well to add another customer\_ID row, which is optional in other accounts, but necessary for personal checking.

Site for Sore Eyes

ER Diagram:

Doctors (Doctor\_ID (PK), Name, Specialty, Hospital affiliation, Office\_Phone, Pager)

Appointments (Appointment\_ID (PK), Doctor (FK), Appointment\_Time, **Patient\_Name (FK), Patient\_ID (FK),** Home\_Phone, Complaint)

Patient (Patient\_ID (PK), Name, DOB, Address, Sex, Work\_Phone, Home\_Phone, Occupation, **Primary\_Doctor (FK)**)