

# Create a Database

Due: September 24, 2020 5:00 p.m.

You have just started working at a bank that wants you to get them to move away from using excel spreadsheets, and create a database for all of their data needs. Although you expect this database to be updated continually, you have spoken with all the heads of departments and came up with the list of data that the database should include upon roll out shown below.

- A list of customers and along with information about them
- Customer accounts with their balances, and a list of every transaction wither that is depositing or withdrawing(customers can have more than one account)
- All the loans associated with each customer along with the assets associated with each loan and information on those assets (i.e. cost, type of asset, location, etc.). A loan can have more than one asset and more than one customer associated with it
- The employee that approved loans and set up customer accounts
- All payments on loans and charges to customers
- An easy lookup that shows when a customer is overdue on their loan payment, so the customer experience team can reach out to the customer
- Employee information such as department, supervisor, the day they were hired, etc.
- A easy way for the HR team to know if there is a birthday coming up this month

Create a database diagram following the notation that we covered in lecture on your proposed database design. Make sure all the tables in your diagram are in third normal form and notation on primary and foreign keys is included.

Use your best judgment on the information that should be included in each table. Any data points that you believe to be relevant should be included. Assume that you have very detailed data on everything. You don't need to ask if we have the data before including it in your diagram.

Upload a copy of your diagram drawn with software or by hand to the assignments Github repository.