

# CMSC424: Database Design

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# Data Modeling

- Goals:
  - Conceptual representation of the data
  - “Reality” meets “bits and bytes”
  - Must make sense, and be usable by other people
- Today:
  - Entity-relationship Model
  - Relational Model

# Motivation

- You've just been hired by Bank of America as their DBA for their online banking web site.
- You are asked to create a database that monitors:
  - customers
  - accounts
  - loans
  - branches
  - transactions, ...
- Now what??!!!