Textbook chapters are listed with the associated topics.
Also consider the associated Links and References (Canvas, On-Line) provided in the class schedule.

Database Design

- **Ch 6: Database Design Using The E-R Model**
  - The Entity-Relationship Data Model and Diagram
  - Strong vs weak Entity
  - Keys
  - Complex Attribute (multi-valued and Composite)
  - Mapping Cardinalities (1-1, 1-*, *-*)
    - Partial and total participation
  - Transfer ER to Relational Schema

- **Ch 7: Relational Database Design**
  - Functional Dependencies (FDs)
  - Armstrong's Axioms
    - imply a FD
  - Closure algorithm,
    - Finding Keys, All FDs and imply a FD
  - Normalization
    - Normal Forms