

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 4: Intermediate SQL**
  - Join Expressions
    - Cross Join, (Inner) Join, Left (Outer) Join, Right (Outer) Join, Self Join
  - Sub Query(Nested Query)
  - Views
  - Integrity Constraints
  - SQL Data Types and Schemas
  - Authorization
  
- **Ch 5: Advanced SQL**
  - Functions and Procedures
  - Triggers
  
- **Ch 6: Database Design Using The E-R Model**
  - The Entity-Relationship Model
  - Complex/Multi-valued Attributes
  - Mapping Cardinalities
  - Transfer ER to Relational Schema
  
- **Ch 7: Relational Database Design**
  - Functional Dependencies (FDs)
  - Armstrong's Axioms
  - Normalization
    - Normal Forms (1NF, 2NF, 3NF, BCNF)