Textbook chapters are listed with the associated topics.

Also, consider the associated Links and References (Canvas, On-Line) provided in the class schedule.

Introduction of Database and SQL

- Ch 1: Introduction
 - o Databases (What?, Why?, How?)
 - Relational Data Model and Databases
 - Database Design
 - Database Architecture

• Ch 2: Introduction to the Relational Model

- Structure of Relational Databases
- Database Schema
- Keys
- o Schema Diagrams
- Relational Query Languages
- The Relational Algebra
 - Select and Project Operators, Expressions, Set Operators, Join, Cartesian Product, Renaming, Natural (Inner) Join.

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• Ch 3: Introduction to SQL

- Overview of The SQL Query Language
- o SQL Data Definition
- o Basic Query Structure of SQL Queries
 - Select, Insert, Update, Delete
- Order By
- Set Operations
- Null Values
- Aggregate Functions
- o Grouping, Having Clause
- Subqueries (Nested Queries)