



## FSD-501: Principles of SQL

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**Description:**

**3 credits/126 hours**

**Prerequisite: None**

Database Systems will provide students with a solid and practical foundation for the design, implementation, and management of database systems. This course covers three broad aspects of database systems: design, implementation, and management. Students will navigate course work that will provide them opportunities to learn the necessary skills for database design and implementation as well as tools and best practices for ongoing management of databases built using a variety of tools.

**Textbook:** A Guide to SQL, 10<sup>th</sup> Ed., Shellman, Afuouni, Pratt, & Last – ISBN: 978-0-357-36168-9

**Course objectives:**

Throughout the course, you will meet the following goals:

- Build a robust knowledge base for designing databases using SQL
- Create and run SQL commands including retrieving data from a database using SQL commands
- Develop a strong understanding of SQL queries and data reporting
- Understand the fundamentals of working with and managing data within a database using SQL
- Understand how to use functions in queries and manage errors in procedures containing embedded SQL commands

**Contents:**

Module 1: Introduction to KimTay Pet Supplies and StayWell Student Accommodation Databases

Module 2: Database Design Fundamentals

Module 3: Creating Tables

Module 4: Single-Table Queries

Module 5: Multiple-Table Queries

Module 6: Updating Data

Module 7: Database Administration

Module 8: Functions, Procedures, and Triggers

**Grading Scale (70% required for passing)**

**A = 90-100%**

**B = 80-89.9%**

**C = 70-79.9%**

**F = Below 70%**

**Grade Weighting**

**Chapter Quizzes..... 50%**

**Activities ..... 20%**

**Final Exam ..... 30%**

**100%**