

SPECIFIC COURSE OBJECTIVES:

The successful student will be able to:

1. Identify the features of SQL.
2. Query a database using SQL.
3. Utilize sub-queries in the database.
4. Modify data in a database using SQL.
5. Ensure database integrity

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Introduction
 - A. SQL basics
 - B. Relational Databases
 - C. Database Design Fundamentals
 - D. Creating Tables and Indexes
- II. Selecting Data
 - A. The Select List
 - B. Specifying Tables
 - C. Selection Criteria
 - D. Sorting Data and Functions
 - E. The Order By Clause
 - F. Distinct Selects
 - G. Aggregate Functions
- III. Grouping Data
 - A. The Group By Clause
 - B. Having Criteria
 - C. Joining Data
 - D. Inner Joins
 - E. Outer Joins
 - F. Set Functions
- IV. Using Subqueries
 - A. Joins vs. Subqueries
 - B. Subquery Rules
 - C. Multiple Nesting
- V. Adding and Changing Data
 - A. Insert Statement
 - B. Update Statement
 - C. Delete Statement
 - D. Views and Misc. topics
 - E. Creating Views
 - F. Managing Database Security
 - G. Transaction Management
 - H. Triggers and Stored Procedures
 - I. Performance Issues
 - J. Database Integrity

REQUIRED READING:

Bowman, Judith. Emerson, Sandra. Darnovsky, Marcy. The Practical SQL Handbook : Using Structured Query Language. 3rd Edition. Menlo Park : Addison-Wesley. 1996.

SUGGESTED READING: None

REQUIRED WRITING:

Demonstration of skills is more appropriate.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short term classes.

There are written homework exercises within each section of each chapter which are assigned, requiring an average of one hour to complete. In addition, numerous computer lab exercises are assigned, each ranging from one to ten hours to complete by an average student.

INSTRUCTIONAL METHODOLOGY: Check all that apply:

- Lecture
- Laboratory
- Lecture-laboratory combination
- Directed study

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380. Yes No

If yes, check all that apply:

- Telecourse
- Mediated instruction
- Computer assisted instruction

GRADING POLICY AND STANDARDS:

There are 10 SQL assignments. The assignments are worth 10 points each and will be graded on concepts that have been covered to date from the book or instructor notes (as provided on the web site).

8 Assignments @10 points each 80 points possible

70-80 Points	A
60-69 Points	B
50-59 Points	C
40-49 Points	D
0-39 Points	F

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

YES__ NO Number of times course may be taken for credit __.

If yes, identify specific provision of Title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable: 58161 (C) (2) (A)

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SIGNATURES ON FILE