

CIS 254 - Database Procedures and Functions

5.0 Credits

Students learn to create functions using procedural programming languages, store functions, and call functions. Includes creating, using, modifying stored procedures and functions within a RDBMS. Students learn control structures of a database programming language. Prerequisite: [CIS 251](#) with a minimum grade of 3.0.

Course Objectives

Upon successful completion of this course, students will be able to:

1. Explain the concept of a scalable relational database management system RDBMS. [COMMUNICATE]
2. Explain the difference between client/server RDBMS and client RDBMS. [REASON]
3. Explain the uses of networked RDBMS. [COMMUNICATE]
4. Explain and use data manipulation language (DML) within procedures and functions. [REASON]
5. Make use of save points and roll back within procedural programming. [REASON]
6. Use of conditional control within procedures and functions (if statements). [REASON]
7. Create exceptions and errors within DML and handle them within procedural programming. [REASON]
8. Understand the use of and create iterative control structures within procedural programming (loops). [REASON]
9. Create record sets through the use of SQL and procedural programming. [REASON]
10. Develop and use stored procedures and functions. [REASON]
11. Use the advanced features of stored procedural programming. [REASON]