

# **CSIT 156**

## **Introduction to SQL Using Oracle**

4 Credits

Community College of Baltimore County  
Common Course Outline

### **Description**

**CSIT 156 – Introduction to SQL Using Oracle:** provides an introduction to the Oracle relational database, structured query language (SQL), and database concepts. Students create tables, establish relationships, enforce integrity constraints, and manipulate data. Topics include database objects, data analysis and manipulation, database security, transaction control, performance, and user management.

**Pre-requisites:** CSIT 101 or CSIT 111 or permission of the Program Coordinator

### **Overall Course Objectives**

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

1. examine database concepts and terminology;
2. execute SQL scripts using Oracle client software;
3. create and execute SQL statements;
4. execute SQL commands to join multiple tables;
5. create, modify, and drop database tables;
6. manipulate data stored in database tables;
7. use subqueries to retrieve data;
8. create and use sequences, indexes, and views;
9. manage constraints;
10. manage users;
11. develop subqueries;
12. manipulate data using single-row and group functions; and
13. assess database vulnerabilities.

### **Major Topics**

- I. Overview of database concepts
- II. SQL select statements
- III. Table creation and management
- IV. Constraints
- V. Data manipulation
- VI. Joining data from multiple tables
- VII. Subqueries
- VIII. User creation and management
- IX. Sequences, indexes, and views
- X. Database security

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

**Course Requirements**

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- One comprehensive project
- Two exams
- Ten Quizzes
- Ten Assignments

**Other Course Information**

A grade of C or better in this course is required in order to register for CSIT 254.

Date Revised: 2/22/2022