

Miami-Dade Community College
COP2740 - Introduction to Oracle: SQL and PL/SQL

Course Description: This course offers students an extensive introduction to data server technology. The class covers the concepts of both relational and object relational databases and the powerful SQL and PL/SQL programming languages. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. In addition, students learn to create PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications. Demonstrations and hands-on practice reinforce the fundamental concepts. This class is preparation for both the Oracle Application Developer and Database Administrator certification exams.

4 Credits

Prerequisites and Corequisites : Familiarity with data processing concepts and techniques.

Course Competencies:

Competency 1: The Student will describe relational and object relational database concepts by.

- a. creating and managing database objects and using constraints
- b. creating views
- c. controlling user access
- d. interacting with the oracle server

Competency 2: The Student will write basic SQL statements using SQL*Plus by

- a. restricting and sorting data
- b. utilizing single row functions
- c. displaying data from multiple tables
- d. aggregating data using group functions
- e. writing subqueries

Competency 3: The Student will demonstrate the ability to do basic programming using PL/SQL by

- a. producing readable output with SQL*Plus
- b. manipulating data
- c. declaring variables
- d. writing executable statements
- e. writing control structures