Miami Dade College

Course Description

CTS2444 | Oracle Database Performance Tuning | 4.00 credits

This course teaches students tuning steps which can be used to improve database performance. Students will learn through a combination of demonstrations, lectures, and lab exercises, gaining practical experience tuning an Oracle database. Students will also learn how to recognize, troubleshoot and resolve common performance related problems in administering an Oracle database. Pre-requisite: CTS2442.

Course Competencies:

Competency 1: The student will enhance performance across differing application environments by:
1. Using Oracle tools to diagnose performance problems
2. Diagnosing and resolving multithreaded server performance issues

Competency 2: The student will define the important steps for outlining a tuning methodology by:
1. Identifying specific performance tuning requirement types of applications
2. Reconfiguring file structures to enhance performance

Competency 3: The student will determine and resolve I/O, data storage and database configuration issues by:
1. Configuring memory and disk resources to optimize sort operations
2. Detecting and resolving latch and lock contention problems

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively