Miami Dade College

Course Description

CTS2442 | Intermediate Oracle Database Administration | 4.00 credits

This is the second course in Oracle database administration. Students will learn basic network administration, including techniques to backup and to recover an Oracle database. The skills developed in this class will help prepare students for the Oracle database administrator (DBA) certification exam. Prerequisite: CTS 2441.

Course Competencies:

Competency 1: The student will establish a Backup and Recovery plan by:
1. Defining an effective backup and recovery strategy
2. Identifying the oracle architecture backup and recovery components
3. Identifying the components of the recovery manager architecture
4. Implementing different backup methods using oracle DBA tools

Competency 2: The student will diagnose and troubleshoot database problems and failures by:
1. Listing the different oracle backup methods
2. Using restores and recovery operations to resolve database failure
3. Configuring a standby database
4. Developing recovery techniques through various scenarios
5. Building new master and snapshot sites using offline instantiation

Competency 3: The student will perform network administration tasks for an oracle environment by:
1. Starting up and shutting down the oracle intelligent agent for OEM
2. Configuring and startup a multi-threaded server
3. Configuring a net client and server node
4. Configuring connection manager to perform pooling and restriction

Competency 4: The student will resolve network problems by:
1. Using logging, tracing, and network assistant
2. Identifying network security risks and related oracle solutions
3. Configuring oracle names to resolve a service name

Learning Outcomes:

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

Updated: Fall 2025