



Course Description

CTS2441 | Introduction to Oracle Database Administration | 4.00 credits

This course is designed to give students who are preparing to become Oracle database administrators (DBA) a firm foundation in basic administrative tasks. Students will learn through instructor-led learning, structured hands-on practices, and challenge-level exercise labs, the necessary knowledge and skills to set up, maintain and troubleshoot an Oracle database. Prerequisite: CTS2440.

Course Competencies:

Competency 1: The student will manage an Oracle Instance by:

1. Starting up and shutting down an oracle instance and database
2. Identifying oracle architectural components
3. Managing tablespaces, segments, extents, and blocks

Competency 2: The student will manage users, privileges, and resources by:

1. Using administration tools
2. Managing users
3. Managing profiles
4. Managing privileges
5. Managing roles

Competency 3: The student will create an operational database by:

1. Creating a database
2. Creating data dictionary views and standard packages
3. Determining storage structure and Relationships
4. Managing tables
5. Managing indexes
6. Loading and reorganizing data
7. Using national language support features

Competency 4: The student will manage oracle database files by:

1. Using clusters and index-organized tables
2. Managing table spaces and data files
3. Managing rollback segments
4. Managing temporary segments
5. Maintaining data integrity

Learning Outcomes:

- Use computer and emerging technologies effectively