

Oracle 10g Concepts and Facilities

Length: 2 Days

Audience: Managers, Programmers, Analysts, and Users involved with or considering using an Oracle system.

Prerequisites: Basic computer literacy

Overview: This course combines a discussion of relational concepts with a presentation of the features and capabilities of the Oracle relational database management system. A brief introduction to SQL is provided to illustrate major points. The course provides the student with a foundation in the fundamental concepts of the relational database model as implemented in the Oracle RDBMS product. Discussion will also include advanced features of Oracle to support a very large database (VLDB) or to exploit object-oriented capabilities of the DBMS.

This course is also appropriate as an introduction to Oracle for individuals familiar with another relational database product.

Topics discussed include:

- Overview of Oracle
 - Relational Data Structure
 - Relational Language
 - Database Integrity
- Introduction to SQL
- Database Design Examples
 - CREATE TABLE Statement
 - ALTER TABLE Statement
 - Datatypes
 - Temporary Tables
 - Partitioned Tables
- Views
 - Using Views
 - Processing a View
 - Restrictions on Views
 - CREATE VIEW Statement
- Security
 - Privileges and Roles
 - Profiles
- Data Organization
 - Storage Hierarchy
 - Redo Log Files
 - Dynamic Performance Tables
 - Oracle Instance
 - Transactions

- o Deferred Constraint Checking
- Other Schema Objects
 - o Synonyms
 - o Sequences
 - o Clusters
- Oracle's Data Dictionary
- Oracle Software Tools
 - o SQL*Loader
 - o Export & Import
 - o Embedded SQL
 - o PL/SQL
- Client-Server and Distributed Systems
 - o Oracle Net
 - o Stored Procedures
 - o Database Triggers
- Data Warehouse Support
 - o Data Warehouse Concepts
 - o Materialized Views
 - o Function-Based Indexes
 - o Bitmapped Indexes
- Object-Oriented Features
 - o Object-Oriented Concepts
 - o Object-Relational Approach
 - o Object Views