# Oracle11g Concepts and Facilities

Length: 2 Days

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

Prerequisite: 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
- Deferred Constraint Checking

Other Schema Objects
- Synonyms
- Sequences
- Clusters

Oracle's Data Dictionary

Oracle Software Tools
- SQL*Loader
- Export & Import
- Embedded SQL
- PL/SQL

Client-Server and Distributed Systems
- Oracle Net
- Stored Procedures
- Database Triggers

Data Warehouse Support
- Data Warehouse Concepts
- Materialized Views
- Function-Based Indexes
- Bitmapped Indexes
- External Tables

Object-Oriented Features
- Object-Oriented Concepts
- Object-Relational Approach
- Object Views
- Expression Filter