# Oracle11g Concepts and Facilities

## Course Summary

### Description

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

- Overview of Oracle
- Introduction to SQL
- Database Design Examples
- Views
- Security
- Data Organization
- Other Schema Objects
- Oracle's Data Dictionary
- Oracle Software Tools
- Client-Server and Distributed Systems
- Data Warehouse Support
- Object-Oriented Features

### Audience

This course is designed for Managers, Programmers, Analysts, and Users involved with or considering using an Oracle system.

### Prerequisites

Students should have basic computer literacy.

### Duration

Two days

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*... to Your Success!"*

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## Course Outline

**I. Overview of Oracle**
- A. Relational Data Structure
- B. Relational Language
- C. Database Integrity

**II. Introduction to SQL**

**III. Database Design Examples**
- A. CREATE TABLE Statement
- B. ALTER TABLE Statement
- C. Datatypes
- D. Temporary Tables
- E. Partitioned Tables

**IV. Views**
- A. Using Views
- B. Processing a View
- C. Restrictions on Views
- D. CREATE VIEW Statement

**V. Security**
- A. Privileges and Roles
- B. Profiles

**VI. Data Organization**
- A. Storage Hierarchy
- B. Redo Log Files
- C. Dynamic Performance Tables
- D. Oracle Instance
- E. Transactions
- F. Deferred Constraint Checking

**VII. Other Schema Objects**
- A. Synonyms
- B. Sequences
- C. Clusters

**VIII. Oracle's Data Dictionary**

**IX. Oracle Software Tools**
- A. SQL*Loader
- B. Export & Import
- C. Embedded SQL
- D. PL/SQL

**X. Client-Server and Distributed Systems**
- A. Oracle Net
- B. Stored Procedures
- C. Database Triggers

**XI. Data Warehouse Support**
- A. Data Warehouse Concepts
- B. Materialized Views
- C. Function-Based Indexes
- D. Bitmapped Indexes
- E. External Tables

**XII. Object-Oriented Features**
- A. Object-Oriented Concepts
- B. Object-Relational Approach
- C. Object Views
- D. Expression Filter

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