



Course 222: Introduction to Oracle SQL for End Users: Managing and Manipulating Data, Hands-On

Course Description...

This course extends the basic functionality of reading data by learning how to maintain it with standard SQL Data Manipulation Language commands: INSERT, UPDATE, and DELETE. The participant also learns to create tables and build views. The implementation of business rules with declarative constraints is also covered.

Learning Objectives...

- Maintaining table data with INSERT, DELETE and UPDATE SQL statements
- Creating tables and adding constraints
- Simplify data retrieval with Views

Who should attend...

Audience includes all users who need to maintain data. Typical job functions include: data analysts and application troubleshooters, users who need to write and maintain their own small applications, or build subsets of large production systems for analysis.

Prerequisites...

Knowledge of retrieving information from the Oracle database via the SELECT statement (as taught in Course 221) is important.



Course Outline

Introduction and Overview

What is SQL

ANSI Definitions and Oracle Enhancements

Unit 1: Presenting Statements to Oracle

- The command line processor
- SQL*Plus
- SQL*Plus Worksheet
- iSQL*Plus
 - Third Party Products
 - TOAD
 - SQL Navigator

Unit 2: Data Manipulation Language (DML) Commands

- INSERTING
- UPDATING
- DELETING
- MERGING

Unit 3: Creating and Altering Tables

- The CREATE TABLE statement
- ALTERing tables

Unit 4: Creating Constraints

- Business Rules: The state of the data
- Mandatory columns
- Primary keys
- Unique constraint
- Foreign keys
- CHECK constraint

Unit 5: Creating and Using Views

- Definition and reasons to use
- The CREATE VIEW statement
- Using views

Unit 6: Course Summary

Summary