

Oracle9i for Experienced SQL Users (3 Days)

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Oracle9i for Experienced SQL Users (CTI 196)

This course is designed for programmers who are proficient in SQL and want to learn Oracle's powerful SQL extensions -- commands, functions and operators -- plus PL/SQL blocks of application code that can be shared by multiple forms, reports and data management application.

Required prerequisites: Familiarity with Relational Database Management Systems (RDBMS) concepts, proficiency in standard SQL.

Minimum hardware requirements (per student): Pentium PC at 500 MHz, 256 Mb RAM, 500 Mb free hard disk space. PCs are to be networked.

Software requirements: Oracle9i installed on client, and SQL*PLUS installed on each workstation, including instructor's. Microsoft Windows NT or UNIX installed on server, with Windows NT or Windows 98 or later on workstations.

Microsoft PowerPoint and Internet access on instructor's workstation for presentation purposes.

Module 1: Oracle Architectural Components

- Defining an Oracle Database, the Oracle Server, and the Oracle Instance
- The Physical Structure
- The Memory Structure
- The Process Structure
- The Logical Structure

Module 2: Managing Data

- Entering and Manipulating Numeric, String, and Date Data
- Using Built-In Oracle and SQL Functions to Format and Manipulate Data

Module 3: Grouping Information

- Using Oracle and SQL Commands to Arrange, Group, and Filter Data

Module 4: SQL*PLUS Reports and Commands

- Introduction to Web-Enabled Database Using Interactive SQL*PLUS
- Commands to Create and Format Simple Reports
- Accessing Built-In Edit Commands and External Editors

Module 5: Subqueries

- Creating Joins and Subqueries
- Using the Keywords Associated with Joins and Subqueries

Module 6: Formatting and Variables

- Formatting Reports
- Using Variables to Help Create Reports
- Saving SQL Commands for Later Execution in a Report

Module 7: Data Dictionary

- Data Dictionary Described
- Data Dictionary Contents
- Data Dictionary Views

Module 8: Creating Tables and Changing Data

- Creating and Deleting Tables
- Modifying Information in Tables

Module 9: Building Indices and Sequences

- Creating and Using Well-Structured Indices to Speed Performance of Oracle Queries
- Hierarchical Tree
- PseudoColumns
- Creating the Hierarchical Query
- Forming the Hierarchy
- LEVEL PseudoColumn
- Different Types of Joins

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continued**

Module 10: Managing Privileges

- Identifying System and Object Privileges
- Granting and Revoking Privileges
- Identifying Auditing Capabilities
- Using Synonyms

Module 11: Managing Security

- Creating New Database Users
- Altering and Dropping Existing Database Users
- Monitoring Information About Existing Users
- Creating Roles

Module 12: PL/SQL Fundamentals

- What is PL/SQL?
- Anonymous Blocks
- Functions and Procedures
- Variables and Datatypes
- Exceptions
- Packages

Module 13: PL/SQL Control Structures

- If-Then-Else Structures
- Looping
- GOTO Statement
- NULL Statement
- Cursors

Module 14: PL/SQL More About Creating Packages

- Describing Packages and List Components
- Creating a Package to Include Variables, Cursors, Constants, Exceptions, Procedures and Functions
- Public or Private Package Constructs
- Invoking a Package Construct