

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Introduction to Oracle 9i/10g Programming (SQL*Plus & SQL)

Course Description:

On this course, students will learn how to create, retrieve, and manipulate objects in Oracle 10g Structured Query Language (SQL). Students will also be introduced to Oracle 10g database features and tools.?

The course is targeted at application developers, database administrators, system administrators and users who write applications and procedures that access an Oracle 10g database.

Pre-requisites:

A good knowledge of computing principles, no formal programming experience necessary.

Course Content:

- **Relational Database and SQL Overview**
- Review of Relational Database Terminology
- Relational Database Management Systems
- Introduction to SQL
- Oracle Versioning and History
- Logical and Physical Storage Structures
- Connecting to a SQL Database
- Datatypes
- Sample Database

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- **Using Oracle SQL*Plus**
 - SQL*Plus
 - The SQL Buffer
 - Buffer Manipulation Commands
 - Running SQL*Plus Scripts
 - Tailoring Your SQL*Plus Environment
 - Viewing Table Characteristics
 - SQL*Plus Substitution Variables
 - Interactive SQL*Plus Scripts
 - Using iSQL*Plus

- **SQL Queries - The SELECT Statement**
 - The SELECT Statement
 - The CASE...WHEN Statement
 - Choosing Rows with the WHERE Clause
 - NULL Values
 - Compound Expressions
 - IN and BETWEEN
 - The LIKE Operator
 - Creating Some Order

- **Scalar Functions**
 - SQL Functions
 - Using SQL Functions
 - String Functions
 - Numeric Functions
 - Date Functions
 - Conversion Functions
 - Date Formats
 - Oracle Pseudocolumns

- **SQL Queries - Joins**
 - Selecting from Multiple Tables
 - Joining Tables
 - Self Joins
 - Outer Joins

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- **SQL Queries - Joins**
 - **Aggregate Functions and Advanced Techniques**
 - **Data Manipulation and Transactions**
 - **Data Definition and Control Statements**
 - **Other Database Objects**
- Types of Outer Joins
 - Subqueries
 - Correlated Subqueries
 - The EXISTS Operator
 - The Aggregate Functions
 - Grouping Rows
 - Combining SELECT Statements
 - The INSERT Statement
 - The UPDATE Statement
 - The DELETE Statement
 - Transaction Management
 - Concurrency
 - Explicit Locking
 - Data Inconsistencies
 - Loading Tables From External Sources
 - Standard Datatypes
 - Defining Tables
 - Constraints
 - Inline Constraints
 - Modifying Table Definitions
 - Deleting a Table Definition
 - Controlling Access to Your Tables
 - Views
 - Creating Views
 - Updatable Views
 - Sequences
 - Synonyms

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- **Appendix A - The Data Dictionary**
- Introducing the Data Dictionary
- DBA, ALL, and USER Data Dictionary Views
- Some Useful Data Dictionary Queries

Course Duration:

2 Days

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