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Course Name

Oracle® PL - SQL Training

Sector Name

Information Technology

Document Type

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Course Introduction

Learning Tree's Introduction to SQL Course is designed to provide an introduction to the SQL programming language, which is the standard language for relational database management systems.

The course covers the basics of SQL, including creating tables, manipulating data, and querying databases. Students who complete the course will be equipped to write SQL queries, work with Microsoft SQL Server or PostgreSQL.

The course is suitable for beginners with no prior experience in SQL or database management, as well as professionals who want to refresh their skills.

Overall, Learning Tree's Introduction to SQL Course is an excellent starting point for anyone looking to learn SQL and become proficient in database management and data engineering.

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Target Audience

✓ Beginners with no prior SQL or database experience

✓ Aspiring data professionals

✓ IT professionals and software developers

✓ Business analysts and managers

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Learning Objectives

- ✓ Write SQL code based on Wrap in ANSI/ISO standards to build database structures.
- ✓ Update database content with SQL and transaction handling.
- ✓ Retrieve data with filter conditions and from multiple tables using various types of joins.
- ✓ Process data with row and aggregate functions.
- ✓ Leverage continued support with after-course one-on-one instructor coaching and computing sandbox.

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Course Outline

✓ DAY 01

Module 1: Introduction and Overview

- ✓ PL/SQL fundamentals
- ✓ Declaring and anchoring variables to database definitions
- ✓ Flow control constructs

Oracle 11g and 12c PL/SQL features

- ✓ PL/Scope in Oracle 11g
- ✓ Returning implicit cursor results from stored procedures in Oracle 12c
- ✓ Declaring local functions within SELECT statements in Oracle 12c

Module 2: Data Manipulation Techniques

- ✓ Maintaining data with DML statements
- ✓ Employing the RETURNING INTO clause
- ✓ Solving the fetch-across-commit problem

Managing data retrieval with cursors

- ✓ Implications of explicit and implicit cursors

✓ Simplifying cursor processing with cursor FOR LOOPs

✓ Embedding cursor expressions in SELECT statements

Cursor variables

✓ Strong vs. weak cursor variables

✓ Passing cursor variables to other programs

✓ Defining REF CURSORS in packages

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Course Outline

✓ Day 02

Module 3: Developing Well-Structured and Error-Free Code

- ✓ Error handling using EXCEPTIONs
- ✓ Propagation and scope
- ✓ "Retrying" problem transactions with EXCEPTION processing

Debugging PL/SQL blocks

- ✓ Simplifying testing and debugging with conditional compilation
- ✓ Interpreting compiler messages
- ✓ Applying structured testing techniques
- ✓ Building and applying a test bed
- ✓ Leveraging the debugging facilities in SQL Developer

Module 4: Achieving Maximum Reusability

- ✓ Writing stored procedures and functions
- ✓ Calling and invoking server-side logic
- ✓ Passing input and output parameters
- ✓ Implementing an autonomous transaction

Coding user-written functions

- ✓ Calling PL/SQL functions from SQL
- ✓ Building table-valued functions

Developing safe triggers

- ✓ Employing OLD and NEW variables
- ✓ Avoiding unreliable trigger constructs
- ✓ Exploiting schema and database triggers

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Course Outline

✓ Day 03

Collection types

- ✓ PL/SQL tables, nested tables, VARRAYs
- ✓ Stepping through dense and nonconsecutive collections

Bulk binding for high performance

- ✓ Moving data into and out of PL/SQL blocks
- ✓ BULK COLLECT INTO and FORALL
- ✓ BULK cursor attributes
- ✓ BULK EXCEPTION handling

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Course Outline

✓ Day 04

Module 6: Invoking Native Dynamic SQL

- ✓ Finessing the compiler
- ✓ The EXECUTE IMMEDIATE statement
- ✓ The RETURNING INTO clause

Types of dynamic SQL

- ✓ Building SQL statements during runtime
- ✓ Autogenerating standard code

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Course Outline

✓ Day 05

Module 7: Package Tips and Techniques

- ✓ Package structure: SPEC and BODY
- ✓ Eliminating dependency problems
- ✓ Overloading for polymorphic effects
- ✓ Evaluating application frameworks
- ✓ Declaring and using persistent global variables

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 18, 2027	Jan. 22, 2027	5 days	4250.00 $	UAE , Dubai
Aug. 30, 2027	Sept. 3, 2027	5 days	4950.00 $	England , London
Dec. 21, 2026	Dec. 25, 2026	5 days	4250.00 $	UAE , Abu Dhabi
April 11, 2027	April 15, 2027	5 days	4250.00 $	Qatar , Doha

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