

O020 - Oracle 9i PLSQL

Course Objectives

This course introduces the fundamentals of Oracle's procedural language, PL/SQL, the engine behind the full range of Oracle technology.

The course introduces the syntactic transactional languages controls evolving to cover the full range of PL/SQL programming functionality found within the Oracle 9i RDBMS.

This practical course is an essential foundation study course needed for all Oracle 9i RDBMS professionals to maximise their utilisation of Oracle 9i and the productive benefits that can be achieved through the essential deployment of PL/SQL functionality across the business.

Who Should Attend	Prerequisites	Duration
Oracle Analyst/Programmers Oracle Technicians Oracle DBA's Oracle Developers	PC fundamentals Oracle SQL	5 Days

Course Contents

<p>PL/SQL Basics Introduction PL/SQL Block Structure</p> <p>Declaring Variable Types Datatypes Creating Variables and Constants %Type Identifiers</p> <p>Basic Data Processing Select ... Into Command</p> <p>Procedural Processing Simple or Infinite Loops While Loops For Loops IF Statements GOTO</p> <p>Data Processing Creating Explicit Cursors Working with Cursors Using Cursors with Loops Parameterised Cursors Cursor Attributes Implicit Cursors Cursor for Loops</p> <p>Error Handling Introduction to Exceptions Creating Programmer Defined Exceptions</p>	<p>Exceptions Redefining Oracle Exceptions Raising Application Errors Using Error Variables</p> <p>Modularization PL/SQL block structure Procedures Functions Parameters</p> <p>Stored PL/SQL code User Schemas Hints Dependencies Invoker Rights Overloaded Modules Local Modules Shared Global Area Code Wrapping</p> <p>Packages Creating Packages Dropping Packages Parameter passing by reference Serially reusable packages</p> <p>Transactional Control Commit Rollback Savepoint Autonomous Transactions</p>	<p>Extending the Type System PL/SQL Collections Associated Arrays Nested Tables Bulk Binds Bulk Exceptions Caching Data</p> <p>Database Triggers Writing Database Triggers Database Trigger Syntax Accessing Column Values in Triggers Trigger Restrictions</p> <p>Database Trigger Firing Sequence Disabling Triggers Enabling Triggers Dropping Triggers New 9i Database Triggers</p> <p>Data Dictionary Views Naming Conventions Package security</p> <p>Oracle Supplied Packages DBMS_OUTPUT DBMS_JOB DBMS_PROFILER DBMS_RANDOM</p> <p>File IO with UTL_FILE package</p>
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COURSE OVERVIEWS

Dynamic SQL

Methods
Performing Dynamic SQL with
DBMS_SQL Package
Native Dynamic SQL

Large Object Support

Large Object Principles
Using DBMS_LOB

Web PL/SQL Development

Output with http.p
Specific http procedures

PL/SQL Toolkit Packages

owa_cookie
owa_image
owa_pattern
owa_util
utl_http