



OR5470: Oracle Advanced PL/SQL Programming

Course ID #: 0370-241-DB-W

Hours: 14

Course Content

Course Description:

The course provides attendees with the background to develop stored PL/SQL programs including functions, procedures, packages, and triggers. Commonly used predefined packages provided with the Oracle DBMS are examined. Discussions include how these packages could be used as part of in-house applications. Additional PL/SQL features such as overloading programs, collections (arrays), bulk processing and autonomous transactions are also presented. Workshops provide students with the opportunity to use these features and evaluate their potential role in an application. This course can be taught for any Oracle version.

Target Student:

Programmers and Database Administrators responsible for the development or maintenance of application systems which access an Oracle database.

Prerequisites:

Oracle PL/SQL Programming or equivalent experience

Topics:

PL/SQL on the Server

- Review Stored Procedures, Functions, Packages
- Overloading Programs
- Benefits of Overloading
- Overloading Rules
- Definer's versus Invoker's Rights
- Review Triggers
- Viewing Source Code

Advanced Features

- Collections
 - PL/SQL Associative Arrays
 - The VARRAY Type
 - Nested Tables
- Array Methods
- Benefits of Using Arrays
- Pros and Cons of each Array type

BULK Operations

- BULK Operations Benefits
- SELECT ... BULK COLLECT
- FORALL Statement
 - INSERT, UPDATE, DELETE
- BULK Options
- BULK Behavior

Oracle Supplied Packages

- UTL_FILE
 - Prerequisites
 - Creating / Using a Directory
- DBMS_RESUMABLE
 - Benefits
- DBMS_ALERT
- DBMS_FLASHBACK
 - Viewing Data from the Past



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Oracle Supplied Packages, continued

- DBMS_METADATA
 - Retrieve DDL for Objects
- DBMS_SCHEDULER
 - Scheduler Pieces
 - Programs
 - Schedules
 - Jobs
- Other Packages

Autonomous Programs / Transactions

- Behavior
- Usage Reasons
- Declaring
 - The PRAGMA Statement
- Using in Stored Procedures
- Using in Triggers