
ORACLE ADVANCED PL/SQL

Duration: 3 days

Develop the skills to effectively utilize Oracle's programming language, PL/SQL

Course Description:

This course is a lab intensive class where participants will gain a greater understanding and command of Oracle's programming language PL/SQL. Focus will be on effectively utilizing programmer-defined packages and programmer-defined "built-in" functions to use in SQL statement processing.

Participants will learn...

- To work with triggers
- Mutating and Constraining Tables
- Module Overloading
- Cursor Attributes
- Recursion
- "Packaged" Variables
- User-defined records

Who Needs to Attend:

Application developers, designers and database administrators interested in furthering their mastery of PL/SQL concepts and techniques.

Prerequisites:

Oracle Foundation Classes (SQL Basics & SQL Plus and PL/SQL) or equivalent experience

Course Content:

TRIGGERS

- Old and new
- For each row
- Update column list
- Multistatement triggers

MUTATING AND CONSTRAINING TABLES

- Tables
- Enable/Disable

"PACKAGED" VARIABLES

MODULE OVERLOADING

RECURSION

USER-DEFINED RECORDS

CURSOR ATTRIBUTES

- Explicit cursor attributes
- Implicit cursor attributes

PL/SQL TABLES

CURSOR VARIABLES

- Variables
- Open-for
- Fetch and close
- Taking advantage of the weak cursor variable

DBMS_OUTPUT PACKAGE

- DBMS_Output package (buffer I/O)
- Put_Line, Put and New_Line

UTL_FILE PACKAGE

- UTL_File package (File/I/O)
- Exceptions

DBMS_SQL PACKAGE

- DBMS_SQL package (Dynamic SQL)

DBMS_ALERT PACKAGE

- DBMS_Alert package (notification of database events)

DBMS_PIPE PACKAGE

- DBMS_Pipe package (communication between sessions)

DBMS_JOB PACKAGE

- DBMS_Job package (job scheduling)
- Terminating a job
- Viewing job queue information

PL/SQL WRAPPER

- PL/SQL Wrapper (source code encryption)
- Let's wrap

LAYOUTS OF DEMO TABLES

PL/SQL CONTROL STRUCTURES

ORACLE FUNCTIONS

Course Labs:

1. Triggers
2. Cursor attributes
3. PL/SQL tables
4. Cursor variables
5. UTL_File packages
6. DBMS_SQL packages
7. DBMS_Alert packages
8. DBMS_Pipe packages
9. PL/SQL wrappers