

Course overview:

Oracle 9i Developer PL/SQL Program Units

(D014eng)



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Overview and objectives

An essential component of client/server application development is the creation of database server-side program units. This 3-day course discusses the subjects of database triggers and stored procedures. Advanced topics such as using system-supplied packages, programming for superior performance, object oriented encapsulation of logic into packages and many others are discussed in detail.

On course completion, students will be able to:

- ❑ Build comprehensive database triggers
- ❑ Build new Oracle9i system triggers
- ❑ Developer stored procedures and functions
- ❑ Encapsulate program units into packages
- ❑ Use Oracle Procedure Builder for debugging and code development

Who should attend?

This course has been developed for Oracle developers and database administrators who have attended the following courses or have equivalent knowledge and experience:

- ❑ Introduction To Oracle9i SQL
- ❑ Introduction To Oracle9i PL/SQL Language
- ❑ Introduction To Oracle9i Advanced SQL

Understanding application partitioning

- Client-Side Call to SALARY_VALID() • Client-centric • Application partition

Creating database triggers

- About database triggers • SECURITY_TIME_CHECK transaction • Trigger execution • The PL/SQL cache • Developing trigger logic • Create Trigger format (statement trigger) • Update event with column specification • Implementing triggers • RAISE_APPLICATION_ERROR() • Row triggers • Create trigger format (row trigger) • Trigger processing • EMPLOYEE_SALARY_CHECK • EMPLOYEE_JOURNAL • BUDGET_EVENT

Maintaining database triggers

- Instead of triggers • Maintain existing triggers • Drop trigger • Alter trigger • Instead of triggers • Data dictionary storage • USER_TRIGGERS

Procedure builder, trigger editor

System triggers

- System event attributes • Required privileges • Grant

Creating stored procedures and functions

- Create procedure/create function statement format • RAISE_SALARY() • SALARY_VALID() • Executing procedures and functions • Developing procedures and functions • IN, OUT parameters • PL/SQL program restrictions • LONG and LONG RAW datatypes • Calling functions from SQL • COMPUTE_RAISE()

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Maintaining stored procedures and functions

- About dependencies • Altering procedures and functions • Alter procedure • Alter function • Dropping procedures and functions • Drop procedure • Drop function • Session state • Data dictionary storage • USER_OBJECTS • USER_SOURCE • USER_OBJECT_SIZE • Show errors

Procedure builder and the debugger

- What is the PL/SQL interpreter? • Developing subprograms • RAISE_SALARY() • Preparing a debugging session • Using the PL/SQL interpreter • PL/SQL editor window • STEP dialog box

Creating and maintaining packages

- About, create, drop, alter package • Performance considerations

Using cursor variables

System-supplied packages

- About system-supplied packages • DBMS_ROWID() • ROWID_TO_RESTRICTED() • ROWID_TO_EXTENDED() • DBMS_SQL()

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