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## Oracle 10g Advanced PL/SQL Programming :

### Objectives:

--> To help PL/SQL programmers take advantage of language features, advanced techniques, packages and facilities provided by Oracle to develop and tune efficient and effective PL/SQL subprograms.

--> Understand the basic form and structure of program units stored within the database.

--> Build and maintain database stored program units.

--> Encapsulate stored units within packages and taking advantage of accompanying advanced programming techniques, such as cursor variables, cursor expressions and collections etc.,

--> Build and maintain DML-event and system-event database triggers.

--> Discuss the storage and execution model for database programs and how one can write efficient programs to maximize performance.

--> Use system-supplied packages to extend the power of your SQL statements and PL/SQL applications.

### Course Contents :

#### (A) Creating & maintaining packages

- (1) About packages
- (2) Creating packages
- (3) Advanced programming techniques
- (4) Maintaining packages
- (5) PL/SQL Collections and usage of collections in DB Packages.

#### (B) Advanced cursor techniques

- (1) Using cursor variables
- (2) Using cursor expressions

#### (C) Using system-supplied packages

- (1) Dbms\_Output
- (2) utl\_file

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## (D) Creating database triggers

- (1) About database triggers
- (2) Statement-level triggers
- (3) Row-level triggers
- (4) Examples of triggers
- (5) Instead of triggers
- (6) Employing triggers within an application

## (E) Maintaining database triggers

- (1) Multiple triggers per event
- (2) Trigger maintenance tasks
- (3) Show errors trigger
- (4) Drop trigger
- (5) Alter trigger
- (6) Handling mutating table issues

## (F) Implementing system event triggers

- (1) What are system event triggers?
- (2) defining the scope
- (3) Available system events
- (4) System event attributes

## (G) Using Dynamic SQL

- (1) EXecute Immediate - Basic usage
- (2) Usage of bind variables in Dynamic SQL
- (3) REF Cursors and Dynamic SQL

## (H) Miscellaneous

- (1) Removing Errors and Bugs from PL/SQL Programs
- (2) Handling Exceptions
- (3) Debugging PL/SQL