

Oracle Database 10g: SQL Fundamentals **32 Hours**

Oracle Database 10g: SQL Fundamentals

- Overview of Oracle and simple SQL select statements
- Limiting, storing and manipulating data
- Advanced Data selection in Oracle
- Sub queries
- SQL PLUS and I-SQL PLUS
- Creating and managing Tables and views
- Manipulating Data
- Other Database Objects in oracle
- User Access Control in Oracle

Oracle Database 10g: PL/SQL Fundamentals **25 Hours**

Declaring Variables

- PL/SQL Block Structure
- Block Types
- Variables

Writing Executable Statements

- PL/SQL Block Syntax
- SQL Functions in PL/SQL
- Data Type Conversion
- Nested Blocks and Variable Scope
- Operators in PL/SQL

Interacting with the Oracle Server

- SQL Statements in PL/SQL
- SQL Cursor Attributes

Writing Control Structures

- Controlling PL/SQL Flow of Execution
- CASE Expressions
- BOOLEAN Conditions
- Iterative Control: LOOP Statements

Writing Explicit Cursors

- About Cursors
- Controlling Explicit Cursors
- Explicit Cursor Attributes
- Cursor FOR Loops

Handling Exceptions

- Introduction of Handling Exceptions
- Exception Types
- Trapping Exceptions
- Trapping Predefined Oracle Server Errors
- RAISE_APPLICATION_ERROR function

Creating Procedures

- PL/SQL Program Constructs
- Subprograms
- Syntax for Creating Procedures
- Developing Procedures
- Parameters in Procedures
- Invoking Procedures
- Removing Procedures

Creating Functions

- Overview of Functions
- Syntax for Creating Functions
- Creating a Function
- Executing Functions
- Removing Functions

Creating Packages

- Overview of Packages
- Components of Packages
- Developing a Package
- Removing a Package
- Advantages of Packages

Creating Database Triggers

- Types of Triggers
- Guidelines for Designing Triggers
- Creating DML Triggers
- DML Trigger Components
- Creating DML Statement Triggers
- Restricting a Row Trigger
- Managing Triggers
- Dropping Triggers