

<b>Chapter 1: Getting Started</b>
You will learn: <ul style="list-style-type: none"><li>• How to invoke and run SQL using the SQL/PLUS development tool.</li><li>• Capabilities and limitations of PL/SQL.</li></ul>
<b>Chapter 2: Fundamentals</b>
You will learn: <ul style="list-style-type: none"><li>• Rules and syntax of PL/SQL.</li><li>• Block structure of the code.</li><li>• How to define constants and variables and understand the scope of variables.</li><li>• Creating cursors and loop through the recordset.</li><li>• Techniques for enhancing and simplifying declarations.</li><li>• Coding techniques for interactive control.</li><li>• Benefits of using packages.</li><li>• Coding and designing programs using subprograms.</li><li>• Declaring and using collections.</li><li>• Handling and processing error.</li></ul>
<b>Chapter 3: Architecture</b>
You will learn: <ul style="list-style-type: none"><li>• PL/SQL interaction with Oracle.</li><li>• How triggers are used in databases.</li><li>• Integration with SQL.</li><li>• OOPs features in PL/SQL.</li></ul>
<b>Chapter 4: Programming Elements</b>
You will learn: <ul style="list-style-type: none"><li>• Basic elements in PL/SQL.</li><li>• Variable naming convention and rules.</li><li>• Literals.</li><li>• Different data types and their associated usage.</li><li>• Languages operators and clauses.</li></ul>
<b>Chapter 5: Flow of Control</b>
You will learn: <ul style="list-style-type: none"><li>• Coding techniques using IF, LOOP and WHILE statements.</li><li>• Flow of control statements.</li><li>• Optimization techniques with flow of control statements.</li></ul>

**Chapter 6: Interaction with Oracle**

You will learn:

- How to use PL/SQL for interaction with an Oracle database.
- Concepts of a transaction and how to code and control transactions.
- Manipulation of cursors.
- ROWID and ROWNUM.

**Chapter 7: Error Handling**

You will learn:

- Error handling philosophy utilized in PL/SQL.
- Declare exception and using predefined exceptions.
- How to test error conditions.
- How to branch to/from exceptions.
- How to add fields containing error information.
- Processing after an exception.

**Chapter 8: Cursors**

You will learn:

- Cursor declaration.
- Open, fetch, and close.
- Updating through cursors.
- Looping through cursors.
- Performance issues associated with cursors.
- When to use cursors.
- Coding cursor variables.

**Chapter 9: Subprograms**

You will learn:

- Coding subprograms.
- Passing parameters.
- Differences between actual and formal parameters.
- Coding and understanding the parameter modes.
- Overloading techniques.

**Chapter 10: Collections and Records**

You will learn:

- How to code programs using tables.
- Advantages of nested tables.
- The differences and advantages of Varrays versus nested tables.
- Coding techniques using collections.
- Declaring and using records for simplifying the code.

**Chapter 11: Transaction Processing**

You will learn:

- Size and scope of a transaction.
- Coding and testing the various commands associated with committing and rolling back a transaction.
- Locking a table for data integrity and performance.
- Defining autonomous transactions.

**Chapter 12: Performance**

You will learn:

- Performance techniques for PL/SQL.
- How to use of Bulk Binds.
- How to code the RETURNING clause and performance considerations.
- Data type performance issues.
- Conversion issues.