

PLSQL

Lesson 00:

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People matter, results count.



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Document History

| Date | Course Version No. | Software Version No. | Developer / SME | Change Record Remarks |
|--------------|-----------------------|----------------------------|---------------------------------------|---|
| 19-July-2016 | 1.1 | | Shraddha Jadhav and Rahul Kulkarni | Integration refinements as per integrated RDBMS LOT Structure |

Course Goals and Non Goals

- Course Goals
 - To understand basic PLSQL and Advanced PLSQL concepts.
- Course Non Goals
 - Nothing Specific.



Intended Audience

- Software Programmers
- Software Analysts



Day Wise Schedule

- Day 1
 - Lesson 1: Need for PLSQL, Data types, Scalar and composite.
 - Lesson 2: Loop and conditional constructs
- Day 2
 - Lesson 3: Cursors, Exceptions
- Day 3
 - Lesson 3: Procedures, Functions, Packages
- Day 4
 - Lesson 3: Adv Package Concepts
 - Lesson 4: Triggers and its types
- Day 5
 - Lesson 5: Oracle Supplied packages
 - Lesson 6: Design Considerations

Day Wise Schedule

- Day 6
 - Lesson 6: Design Considerations (continued..)
 - Lesson 7: Different types of pragma
- Day 7
 - Lesson 8: Collection elements
 - Lesson 9: Oracle 11g features
- Day 8
 - Lesson 10: Best practices of PL SQL code, Dynamic SQL

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- Lesson 1: Need for PLSQL, Data types, Scalar and composite.
 - 1.1:Need for PLSQL
 - 1.3:Datatypes
 - 1.4:Scalar
 - 1.5:Composite
- Lesson 2: Loops and Conditional Constructs
 - 2.1. If
 - 2.2. Simple Loop
 - 2.3. For Loop
 - 2.4. While Loop

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- Lesson 3: Cursors, Exceptions, Procedure, Functions, Packages, Adv Packages concepts.
 - 3.1: Cursors
 - 3.2: Exceptions
 - 3.3: Procedure
 - 3.4: Functions
 - 3.5: Packages
 - 3.6: Adv Packages Concepts
- Lesson 4: Triggers and it's types
 - 4.1. Triggers
 - 4.2. Trigger types

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- Lesson 5: Supplied Packages
 - 5.1:DBMS_OUTPUT
 - 5.2: UTL_FILE
 - 5.3:UTL_MAIL
- Lesson 6: Design Considerations
 - 6.1. Bulk Binding concepts
 - 6.2. Ref cursors
 - 6.3. Using NOCOPY hint
 - 6.4. Using PARALLEL_ENABLE hint
 - 6.5. Using Cross-session PL/SQL function
 - 6.6. Using DETERMINISTIC clause
 - 6.7. Using returning clause

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- Lesson 7: Different types of pragma
 - 7.1: EXCEPTION_INIT
 - 7.2: PRAGMA AUTONOMOUS_TRANSACTION
 - 7.3: PRAGMA SERIALLY_REUSABLE
 - 7.4: PRAGMA RESTRICT_REFERENCES
- Lesson 8: PLSQL collection elements
 - 8.1. PLSQL Tables
 - 8.2. Nested tables
 - 8.3: Varrays
 - 8.4: Associative Arrays

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- Lesson 9: Oracle 11g features
 - 7.1: Use of sequence
 - 7.2: Compound Triggers
 - 7.3: Subprogram Inlining
 - 7.4: PL/SQL Continue statement
 - 7.5: PL/SQL Compiler Warnings
- Lesson 10: Best Practices of PLSQL and Dynamic SQL
 - 8.1. Best Practices of PLSQL code
 - 8.1.1. Conditional Compilation
 - 8.1.2: Using Selection Directives
 - 8.1.3: Obfuscation
 - 8.2: Dynamic SQL

References

- Oracle Press-Oracle Database 11g New Features by Robert G. Freeman
- Oracle Database 11g New Features for DBAs and Developers
- Oracle 11g Online documentation.
 - <http://www.oracle-base.com>

