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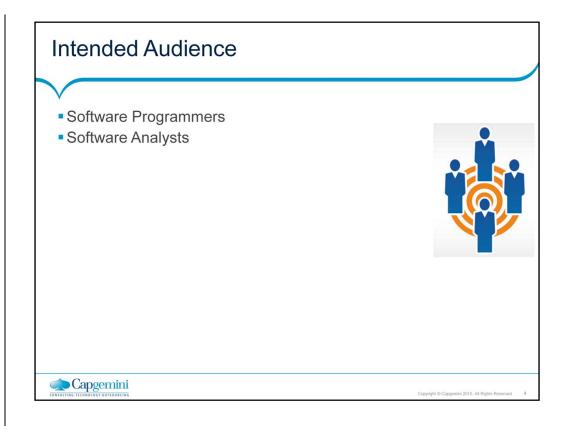
Date Course Version No. 19-July-2016 1.1 Software Version No. Shraddha Jadhav and Rahul Kulkarni Integration refinements as per integrated RDBMS LOT Structure Change Record Remarks No. Shraddha Jadhav and Rahul Kulkarni Integration refinements as per integrated RDBMS LOT Structure

Course Goals and Non Goals

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







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



- 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



- 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



- 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



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



- 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



