

Oracle 12c/11g, new features for developers



SII-374 3 Days (21 Hours)

Description

This course aims to present the contributions of this new version and their implementation. It will allow each participant to take full advantage of Oracle 12c/11g.

Who is this training for ?

For whom

Project managers, design engineers, developers, consultants, having to develop in optimal conditions with Oracle 12c/11g.

Prerequisites

Aucune

Training objectives

Training program

Nouveautés SQL 11g

- Regular expressions for extraction and verification.
- Using virtual columns for indexing.
- Managing external tables: compression and preprocessing.
- Subpartitioning.
- Functions for XML.
- Transposition functions (PIVOT and UNPIVOT).
- Expression of common tables with the clause WITH, application to recursion.
- Exercise: Queries with regular expressions and graphs.
- Setting up virtual column indexes.
- Creating a compressed external table.
- Manipulating XML content.

Nouveautés SQL 12c

- Cascading deletions with TRUNCATE.
- Row limiting with FETCH.
- Using DEFAULT for sequences and NULLs.
- Creation of identity columns.
- Session sequences.
- Constructing views with LATERAL.
- Creating joins with CROSS APPLY and OUTER APPLY.
- Pattern recognition with MATCH_RECOGNIZE.
- SQL functions for JSON content.
- Temporal validity with PERIOD.
- Exercise: Using auto -increment.
- Template searches.
- Manipulating JSON content.

Nouveautés PL/SQL 11g et 12c

- Sequences, loops and duplicates.
- Compound triggers.
- Result Cache functions.
- Object versions with Edition-Based.
- Assigning rights with ACCESSIBLE BY.
- Role management with Code Based Access Control.
- Binding variables for dynamic SQL.
- Implicit results.
- Exercise: Caching function results.
- Defining structured variables to construct SQL statements.
- Assigning roles to a program unit.

Nouvelles fonctionnalités de paquetages 11g et 12c

- BMS_SQL for dynamic SQL and for returning cursors.
- UTL_CALL_STACK for obtaining detailed information about subroutines.
- DBMS_FLASHBACK for auditing and recovering transactions (transaction backout).
- DBMS_STATS for new histograms and extended statistics.
- (CREATE_EXTENDED_STATS, SEED_COL_USAGE and REPORT_COL_USAGE).
- DBMS_SQLTUNE for automating SQL profiles.
- DBMS_SPM to manage execution plans with SQL Plan Management.
- Exercise: Subroutine call traces.
- Collecting extended statistics.
- Analysis of query tuning.