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PL/SQL Advanced Programming Techniques

Best Practices for Developing Expert-Level PL/SQL Solutions

Michael McLaughlin
Oracle ACE

John Harper

Oracle Press

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   Oracle Database 12c PL/SQL Advanced Programming Techniques Michael McLaughlin,John M. Harper,2014-11-14 Take Your PL SQL Programming Skills to the Next Level Build robust database centric PL SQL applications quickly and effectively Oracle Database 12c PL SQL Advanced Programming Techniques shows you how to write and deploy Java libraries inside Oracle Database 12c use the utl_file and DBMS_SCHEDULER packages and create external tables and external procedures Application security performance tuning and Oracle Database In Memory are also covered in this Oracle Press guide Configure deploy and troubleshoot Java libraries for Oracle object types Use the utl_file package to manage unstructured and structured data Develop and deploy Java I O libraries and wrap them with PL SQL Create and use external tables Implement high speed data transfer Harden database systems and develop secure applications Manage complex schedules and jobs with the DBMS_SCHEDULER package Optimize PL SQL for use in performance tuning Create and deploy external procedures Implement the Oracle Database In Memory column store feature   *ORACLE DATABASE 12C HANDS-ON SQL AND PL/SQL, Second Edition* ASNANI, SATISH,2015-11-15 The book teaches the basics of the Oracle database from a beginner s perspective to the advanced concepts using a hands on approach Each and every concept has been elaborated with suitable practical examples along with code for clear and precise understanding of the topic Using a practical approach this new edition of the book covers the detailed introspection of pluggable databases and explains practically the various new features incorporated in the new 12c version It also explains how to retrieve add update and delete data in the Oracle database using SQL SQL PLUS and PL SQL In the process it discusses the various data types and built in functions of Oracle as well as the sorting of records and the table operations The text also includes coverage of advanced queries using special operators Oracle security indexing and stored functions and procedures The book is suitable for undergraduate engineering students of Computer Science and Information Technology B Sc Computer Science IT M Sc Computer Science IT and students of Computer Applications BCA MCA PGDCA and DCA Besides the book can be used as a reference by professionals pursuing short term courses on Oracle Database and students of Oracle Certified Courses KEY FEATURES Based on latest Oracle Database 12c It explains the various features introduced with the new Oracle Database 12c software Hands on methodology Its objective is to impart practical skills using hands on methodology Elaborate Practical Examples Each topic begins with appropriate theory and concept followed by relevant examples for better understanding of the concepts Commands tested and executed on Oracle Database software All the programming examples have been tested on actual Oracle Database software   *Advanced Oracle PL/SQL Developer's Guide* Saurabh K. Gupta,2016-02-15 Master the advanced concepts of PL SQL for professional level certification and learn the new capabilities of Oracle Database 12c About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination Build robust and secure applications in Oracle PL SQL using the best practices Packed with feature demonstrations and illustrations that

will help you learn and understand the enhanced capabilities of Oracle Database 12c Who This Book Is For This book is for Oracle developers responsible for database management Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL SQL programming Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL SQL What You Will Learn Learn and understand the key SQL and PL SQL features of Oracle Database 12c Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c Know more about the advanced concepts of the Oracle PL SQL language such as external procedures securing data using Virtual Private Database VPD SecureFiles and PL SQL code tracing and profiling Implement Virtual Private Databases to prevent unauthorized data access Trace analyze profile and debug PL SQL code while developing database applications Integrate the new application development features of Oracle Database 12c with the current concepts Discover techniques to analyze and maintain PL SQL code Get acquainted with the best practices of writing PL SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred Oracle Database is sometimes compared with Microsoft SQL Server however Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime Oracle PL SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience Advanced Oracle PL SQL Developer s Guide Second Edition is a handy technical reference for seasoned professionals in the database development space This book starts with a refresher of fundamental concepts of PL SQL such as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification examination but doesn t restrict itself to the exam objectives Advanced concepts have been explained in an easy to understand style supported with feature demonstrations and case illustrations   Oracle PL/SQL Programming Steven Feuerstein,Bill Pribyl,2014-01-23 Considered the best Oracle PL SQL programming guide by the Oracle community this definitive guide is precisely what you need to make the most of Oracle s powerful procedural language The sixth edition describes the features and capabilities of PL SQL up through Oracle Database 12c Release 1 Hundreds of thousands of PL SQL developers have benefited from this book over the last twenty years this edition continues that tradition With extensive

code examples and a lively sense of humor this book explains language fundamentals explores advanced coding techniques and offers best practices to help you solve real world problems Get PL SQL programs up and running quickly with clear instructions for executing tracing testing debugging and managing code Understand new 12 1 features including the ACCESSIBLE_BY clause WITH FUNCTION and UDF pragma BEQUEATH CURRENT_USER for views and new conditional compilation directives Take advantage of extensive code samples from easy to follow examples to reusable packaged utilities Optimize PL SQL performance with features like the function result cache and Oracle utilities such as PL Scope and the PL SQL hierarchical profiler Build modular easy to maintain PL SQL applications using packages procedures functions and triggers **Oracle Database 12c PL/SQL Programming** Michael McLaughlin,2014-02-07 Master Oracle Database 12c PL SQL Application Development Develop debug and administer robust database programs Filled with detailed examples and expert strategies from an Oracle ACE Oracle Database 12c PL SQL Programming explains how to retrieve and process data write PL SQL statements execute effective queries incorporate PHP and Java and work with dynamic SQL Code testing security and object oriented programming techniques are fully covered in this comprehensive Oracle Press guide Explore new SQL and PL SQL features in Oracle Database 12c Build control structures cursors and loop statements Work with collections varrays tables and associative array collections Locate and repair errors and employ exception handlers Execute black box white box and integration tests Configure and manage stored packages and libraries Handle security with authentication and encryption Use LOBs to store text and multimedia content Write and implement PL SQL and Java triggers Extend functionality using dynamic SQL statements Understand object types nested tables and unnesting queries Oracle Database 12c Release 2 Performance Tuning Tips & Techniques Richard Niemiec,2017-03-22 Proven Database Optimization Solutions Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec Filled with real world case studies and best practices Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring troubleshooting and optimization methods Find out how to identify and fix bottlenecks on premises and in the cloud configure storage devices execute effective queries and develop bug free SQL and PL SQL code Testing reporting and security enhancements are also covered in this Oracle Press guide Properly index and partition Oracle Database 12c Release 2 Work effectively with Oracle Cloud Oracle Exadata and Oracle Enterprise Manager Efficiently manage disk drives ASM RAID arrays and memory Tune queries with Oracle SQL hints and the Trace utility Troubleshoot databases using V views and X tables Create your first cloud database service and prepare for hybrid cloud Generate reports using Oracle s Statspack and Automatic Workload Repository tools Use sar vmstat and iostat to monitor operating system statistics **Oracle Essentials** Rick Greenwald,Robert Stackowiak,Jonathan Stern,2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers

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Programming Scott Urman,Ron Hardman,Michael McLaughlin,2004-10-07 Create dynamic client server applications using PL SQL and the comprehensive information contained in this authoritative volume Expert Oracle insiders cover the features of PL SQL explain scripting semantics and syntax and fully detail the PL SQL functionality of Oracle Database 10g You ll learn how to write powerful PL SQL programs interact with Oracle databases perform complex calculations and handle error conditions   *Oracle PL/SQL Programming* Dan Hotka,2015 In the fundamentals module Oracle ACE Director Dan Hotka teaches developers how to work with existing code and create new programs Along the way students will learn both conditional and looping syntax and techniques error handling and error processing plus how to work with script files procedures functions and packages a collection of procedures and functions In the advanced module Dan demonstrations how to take advantage of better options for performance gain knowledge about the newer features of the language as well as actually work with these same features in hands on lab exercises The students will learn the latest features of PL SQL collections triggers and a variety of compiler features such as conditional compilation result_cache deterministic features for functions autonomous transactions optimizing compiler features and more Dan covers additional exception processing useful for collections The advanced lessons include useful extensions to the error processing part with a clever use of database triggers This advanced lessons also covers a variety of PL SQL performance tips and the tuning and debugging tools for the PL SQL programming environment This LiveLessons course contains hands on lab exercises throughout and three common tools are used for demonstration including SQL Plus Toad and SQL Developer Students can use the Oracle PL SQL development tool of their choice to do the hands on labs with these lessons All examples work with Oracle10 Oracle11 and Oracle12 databases but the concepts and most of the tips apply to any Oracle database Resource description page   Oracle PL/SQL by Example, 3/e Benjamin Rosenzweig,2004   **Advanced Oracle SQL and PL/SQL: Techniques for Data Analysis and Manipulation** Adam Jones,2025-01-08 Unlock the full potential of Oracle SQL and PL SQL with our comprehensive guide Advanced Oracle SQL and PL SQL Techniques for Data Analysis and Manipulation Designed for database professionals at all levels this book delves deep into the essentials and advanced aspects of Oracle database management Whether you re a beginner aiming to establish a solid foundation or an experienced database administrator seeking to refine your skills with the latest techniques this guide has everything you need Starting with the basics we walk you through understanding Oracle SQL introducing database objects and mastering SQL queries The journey continues with in depth PL SQL programming exploring database objects and advanced data manipulation and analysis Optimize your databases with dedicated chapters on performance tuning and security features and stay ahead by learning best practices in database design and integration with other technologies Packed with practical examples expert tips and exercises this book ensures a hands on learning experience to effectively manage secure and optimize Oracle databases Elevate your data management skills and unlock new possibilities in database administration and development with Advanced Oracle SQL and

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