

Oracle Database 11g Advanced PL SQL Student

This integrated learning solution teaches all the Oracle PL/SQL skills you need, hands-on, through real-world labs, extensive examples, exercises, and projects! Completely updated for Oracle 11g, Oracle PL/SQL by Example , Fourth Edition covers all the fundamentals, from PL/SQL syntax and program control through packages and Oracle 11g's significantly improved triggers. One step at a time, you'll walk through every key task, discovering the most important PL/SQL programming techniques on your own. Building on your hands-on learning, the authors share solutions that offer deeper insights and proven best practices. End-of-chapter projects bring together all the techniques you've learned, strengthening your understanding through real-world practice. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL programming to professionals at Columbia University. New database developers and DBAs can use its step-by-step instructions to get productive fast; experienced PL/SQL programmers can use this book as a practical solutions reference. Coverage includes • Mastering basic PL/SQL

concepts and general programming language fundamentals, and understanding SQL's role in PL/SQL • Using conditional and iterative program control techniques, including the new CONTINUE and CONTINUE WHEN statements • Efficiently handling errors and exceptions • Working with cursors and triggers, including Oracle 11g's powerful new compound triggers • Using stored procedures, functions, and packages to write modular code that other programs can execute • Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced PL/SQL capabilities • Handy reference appendices: PL/SQL formatting guide, sample database schema, ANSI SQL standards reference, and more

In this book, Steven Feuerstein, widely recognized as one of the world's experts on the Oracle PL/SQL language, distills his many years of programming, writing, and teaching about PL/SQL into a set of PL/SQL language "best practices"--rules for writing code that is readable, maintainable, and efficient. Too often, developers focus on simply writing programs that run without errors--and ignore the impact of poorly written code upon both system performance and their ability (and their colleagues' ability) to maintain that code over

time.Oracle PL/SQL Best Practices is a concise, easy-to-use reference to Feuerstein's recommendations for excellent PL/SQL coding. It answers the kinds of questions PL/SQL developers most frequently ask about their code: How should I format my code? What naming conventions, if any, should I use? How can I write my packages so they can be more easily maintained? What is the most efficient way to query information from the database? How can I get all the developers on my team to handle errors the same way? The book contains 120 best practices, divided by topic area. It's full of advice on the program development process, coding style, writing SQL in PL/SQL, data structures, control structures, exception handling, program and package construction, and built-in packages. It also contains a handy, pull-out quick reference card. As a helpful supplement to the text, code examples demonstrating each of the best practices are available on the O'Reilly web site.Oracle PL/SQL Best Practices is intended as a companion to O'Reilly's larger Oracle PL/SQL books. It's a compact, readable reference that you'll turn to again and again--a book that no serious developer can afford to be without.

The primary objective of this Oracle 11g training course is to provide

an introduction to the PL/SQL database programming language, based upon the latest features available with the Oracle database. Syntax, structure and features of the language are discussed in the context of database applications and programming. Major subject areas to be explored within this course book are: Understand the environment and context in which PL/SQL operates; Consider the advantages and benefits of PL/SQL within a database environment; Declaring program variables and complex data types; Developing logic within PL/SQL program blocks; Fetching data from the database into program variables; Returning program output to users; Handling program exceptions; Using explicit and implicit database cursors; Using the advanced features of nested blocks and subprograms; How to take advantage of advanced features such as regular expression support and the handling of string literals within program code.

Learn how to use the PL/SQL programming language effectively, using one of the most popular and widely-used software programs in large companies today. Oracle 10g Developer: PL/SQL Programming uses Oracle 10g to provide an overview of the PL/SQL programming language, beginning with fundamental PL/SQL concepts and

progressing to the writing and testing of PL/SQL code. The book then progresses to more advanced topics, such as Dynamic SQL and code tuning. Updated to the latest release, Oracle 10g, it uses the developer's perspective to focus on the PL/SQL component of the software. With real-world examples and a straightforward writing style, this is a valuable resource for anyone preparing for the new Oracle Certification exam, or simply looking to master the PL/SQL programming language with Oracle.

Oracle Database 11g R2 PL/SQL Fundamentals II - Develop Program Units

Exam 1Z0-053

**Oracle Database 11g and MySQL 5.5 Developer Handbook
PL/SQL Fundamentals I**

Advanced Oracle PL/SQL Developer's Guide

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

A poorly performing database application not only costs users time, but also has an impact on other applications running on the same computer or the same network. SQL Tuning provides an essential next step for SQL developers and database administrators who want to extend their SQL tuning expertise and get the most from their database applications. There are two basic issues to focus on when tuning SQL: how to find and interpret the execution plan of an SQL statement and how to change SQL to get a specific alternate execution plan. SQL Tuning provides answers to these questions and addresses a third issue that's even more important: how to find the optimal execution plan for the query to use. Author Dan Tow outlines a timesaving method he's developed for finding the optimum execution plan--rapidly and systematically--regardless of the complexity of the SQL or the database platform being used. You'll learn how to

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understand and control SQL execution plans and how to diagram SQL queries to deduce the best execution plan for a query. Key chapters in the book include exercises to reinforce the concepts you've learned. SQL Tuning concludes by addressing special concerns and unique solutions to "unsolvable problems."Whether you are a programmer who develops SQL-based applications or a database administrator or other who troubleshoots poorly tuned applications, SQL Tuning will arm you with a reliable and deterministic method for tuning your SQL queries to gain optimal performance. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Write powerful SQL statements and PL/SQL programs Learn to access Oracle databases through SQL statements and construct PL/SQL programs with guidance from Oracle expert, Jason Price. Published by Oracle Press, Oracle Database 11g SQL explains how to retrieve and modify database information, use SQL Plus and SQL Developer, work with database objects, write PL/SQL programs, and much more. Inside, you'll find in-depth coverage of the very latest SQL features and tools, performance optimization techniques, advanced queries, Java support, and XML. This book contains everything you need to master SQL. Explore SQL Plus and SQL Developer Use SQL SELECT, INSERT, UPDATE, and DELETE statements Write PL/SQL programs Create tables, sequences, indexes, views, and triggers Write advanced queries containing complex analytical functions Create database objects and collections to handle abstract data Use large objects to handle multimedia files containing music and movies Write Java programs to access an Oracle Database using

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JDBC Tune your SQL statements to make them execute faster Explore the XML capabilities of the Oracle Database Master the very latest Oracle Database 11g features, such as PIVOT and UNPIVOT, flashback archives, and much more

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, the book 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.

Pro ODP.NET for Oracle Database 11g

Oracle PL/SQL Language Pocket Reference

Oracle PL/SQL Programming

Oracle Database 11g R2

Oracle Advanced PL/SQL Developer Professional Guide

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This updated study guide for the latest release of the most popular database software in the world—Oracle Database 11g— reviews using the RMAN recovery catalog, handling Flashback technology, managing memory and resources, automating tasks, diagnosing the database, and much more. Plus, more than 100 pages of workbook exercises help prepare you to take the 1Z0-053 exam. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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

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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

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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.

The purpose of this Oracle 11g course is to present some of the most advanced features available to database developers. Many of these features are either newly available with the Oracle 11g R1 or R2 release or have been substantially improved in these new versions. Such advanced features include online application redefinition using Editions, employing the full range of index types to achieve maximum

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performance, and advanced SQL query techniques. Among the specific subjects presented in this course are: Perform online redefinition of database-resident applications using Edition-based Redefinition; Permit immediate application upgrade of live applications and online users by means of cross-edition triggers; Creating and using directory objects within the database; A comprehensive look at all index types available when building an application schema, including B-tree internals, function-based, compressed, reverse key, invisible, linguistic, bitmap and bitmap join indexes; A comprehensive look at all table types available when building an application schema, including heap-organized tables, index clusters, hash clusters, index-organized tables, external tables, temporary tables, read-only and compressed tables; Advanced SQL hierarchical data processing capabilities available from the CONNECT BY PRIOR and related language structures; Enhanced SQL and transactional capabilities, including asynchronous commits, DML error trapping and use of regular expressions; How to use the result cache to achieve dramatic performance improvement for frequently executed SQL queries and PL/SQL functions; Enhancements to the PL/SQL programming language and coding capabilities; New and advanced SQL language application development capabilities.

This book is a comprehensive and easy-to-understand guide for using

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the Oracle Data Provider (ODP) version 11g on the .NET Framework. It also outlines the core GoF (Gang of Four) design patterns and coding techniques employed to build and deploy high-impact mission-critical applications using advanced Oracle database features through the ODP.NET provider. The book details the features of the ODP.NET provider in two main sections: "Basic," covering the basics and mechanisms for data access via ODP.NET; and "Advanced," covering advanced Oracle features such as globalization, savepoints, distributed transactions and how to call them via ODP.NET, advanced queueing (AQ), and promotable transactions. It takes you from the ground up through different implementation scenarios via a rich collection of C# code samples. It outlines database security and performance optimization tricks and techniques on ODP.NET that conform to best practices and adaptable design. Different GoF design patterns are highlighted for different types of ODP.NET usage scenarios with consideration of performance and security. It provides a comprehensive guide to the synergistic integration of Oracle and Microsoft technologies such as the Oracle Developer Tools for Visual Studio (11.1.0.7.10). It also details how programmers can make use of ODT to streamline the creation of robust ODP.NET applications from within the Visual Studio environment.

Optimizing Oracle Code

PL/SQL Programming

Oracle Advanced PL/SQL Developer Professional Guide, Second Edition

SQL Fundamentals

Oracle PL/SQL kurz & gut

The fourth edition of this popular pocket guide provides quick-reference information that will help you use Oracle's PL/SQL language, including the newest Oracle Database 11g features. It's a companion to Steven Feuerstein and Bill Pribyl's bestselling Oracle PL/SQL Programming. This concise guide boils down the most vital PL/SQL information into an accessible summary of: Fundamental language elements (e.g., block structure, datatypes, declarations) Statements for program control, cursor management, and exception handling Records, procedures, functions, triggers, and packages Calling PL/SQL functions in SQL Compilation options, object-oriented features, collections, and Java integration The new edition describes such Oracle Database 11g elements as PL/SQL's function result cache, compound triggers, the CONTINUE statement, the SIMPLE_INTEGER datatype, and improvements to native compilation, regular expressions, and compiler optimization (including intra-unit inlining). In addition, this book now includes substantial new sections on Oracle's built-in functions and packages. When you need answers quickly, the Oracle PL/SQL Language Pocket Reference will save you hours of frustration.

The World's #1 Hands-On Oracle SQL Workbook-Fully Updated for Oracle 11g Crafted for hands-on learning and tested in classrooms worldwide, this book

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illuminates in-depth every Oracle SQL technique you'll need. From the simplest query fundamentals to regular expressions and with newly added coverage of Oracle's powerful new SQL Developer tool, you will focus on the tasks that matter most. Hundreds of step-by-step, guided lab exercises will systematically strengthen your expertise in writing effective, high-performance SQL. Along the way, you'll acquire a powerful arsenal of useful skills—and an extraordinary library of solutions for your real-world challenges with Oracle SQL. Coverage includes 100% focused on Oracle SQL for Oracle 11g, today's #1 database platform—not “generic” SQL! Master all core SQL techniques including every type of join such as equijoins, self joins, and outer joins Understand Oracle functions in depth, especially character, number, date, timestamp, interval, conversion, aggregate, regular expressions, analytical, and more Practice all types of subqueries, such as correlated and scalar subqueries, and learn about set operators and hierarchical queries Build effective queries and learn fundamental Oracle SQL Developer and SQL*Plus skills Make the most of the Data Dictionary and create tables, views, indexes, and sequences Secure databases using Oracle privileges, roles, and synonyms Explore Oracle 11g's advanced data warehousing features Learn many practical tips about performance optimization, security, and architectural solutions Avoid common pitfalls and understand and solve common mistakes For every database developer, administrator, designer, or architect, regardless of experience!

Take Your PL/SQL Programming Skills to the Next Level Build robust database-

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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

This book is the definitive reference on PL/SQL, considered throughout the database community to be the best Oracle programming book available. Like its predecessors, this fifth edition of Oracle PL/SQL Programming covers language fundamentals, advanced coding techniques, and best practices for using Oracle's powerful procedural language. Thoroughly updated for Oracle Database 11g Release 2, this edition reveals new PL/SQL features and provides extensive code samples, ranging from simple examples to complex and complete applications, in the book and on the companion website. This indispensable reference for both novices and experienced Oracle programmers will help you: Get PL/SQL programs

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up and running quickly, with clear instructions for executing, tracing, testing, debugging, and managing PL/SQL code Optimize PL/SQL performance with the aid of a brand-new chapter in the fifth edition Explore datatypes, conditional and sequential control statements, loops, exception handling, security features, globalization and localization issues, and the PL/SQL architecture Understand and use new Oracle Database 11g features, including the edition-based redefinition capability, the function result cache, the new CONTINUE statement, fine-grained dependency tracking, sequences in PL/SQL expressions, supertype invocation from subtypes, and enhancements to native compilation, triggers, and dynamic SQL Use new Oracle Database 11g tools and techniques such as PL/Scope, the PL/SQL hierarchical profiler, and the SecureFiles technology for large objects Build modular PL/SQL applications using procedures, functions, triggers, and packages

Advanced PL/SQL Programming & Tuning

SQL Tuning

Expert Oracle PL/SQL

Oracle PL/SQL Best Practices

Oracle Database 11g PL/SQL Programming

Developed as a practical book, "Oracle Database 11g Administration I Certification Guide" will show you all you need to know to effectively excel at being an Oracle DBA, for both examinations and the real world. This book is for anyone who needs the

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essential skills to become an Oracle DBA, pass the Oracle Database Administration I exam, and use those skills in the real world to manage secure, high performance, and highly available Oracle databases.

This Study Guide is targeted at IT professionals who are working towards becoming an Oracle Certified Professional in the PL/SQL developer track. The book provides information covering all of the exam topics for the Oracle certification exam: "1Z0-146: Oracle Database 11g: Advanced PL/SQL." The books in the Oracle Certification Prep series are built in lockstep with the test topics provided by Oracle Education's certification program. Each book is intended to provide the information that will be tested in a clean and concise format. The guides introduce the subject you'll be tested on, follow that with the information you'll need to know for it, and then move on to the next topic. They contain no drills or unrealistic self-tests to bump the page count without adding value. The series is intended to provide a concentrated source of exam information that is compact enough to be read through multiple times. This series is ideal for experienced Oracle professionals that are familiar with the topic being tested, but want a means to rapidly reinforce their existing skills and bridge any gaps in their knowledge. It is also an excellent option as a second source of information for candidates pursuing certification.

The Definitive Guide to Oracle Database 11g Get full details on the powerful features of Oracle Database 11g from this thoroughly updated Oracle Press guide. Oracle

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*Database 11g: The Complete Reference explains how to use all the new features and tools, execute powerful SQL queries, construct PL/SQL and SQL*Plus statements, and work with large objects and object-relational databases. Learn how to implement the latest security measures, tune database performance, and deploy grid computing techniques. An invaluable cross-referenced appendix containing Oracle commands, keywords, features, and functions is also included. Install Oracle Database 11g or upgrade from an earlier version Create database tables, sequences, indexes, views, and user accounts Construct SQL statements, procedures, queries, and subqueries Optimize security using virtual private databases and transparent data encryption Import and export data using SQL*Loader and Oracle Data Pump Use SQL replay, change management, and result caching Avoid human errors using flashback and automatic undo management Build and tune PL/SQL triggers, functions, and packages Develop database applications using Java, JDBC, and XML Optimize availability and scalability with Oracle Real Application Clusters*

Design Feature-Rich PL/SQL Applications Deliver dynamic, client/server PL/SQL applications with expert guidance from an Oracle programming professional. With full coverage of the latest features and tools, Oracle Database 11g PL/SQL Programming lays out each topic alongside detailed explanations, cut-and-paste syntax examples, and real-world case studies. Access and modify database information, construct powerful PL/SQL statements, execute effective queries, and deploy bulletproof security. You'll

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also learn how to implement C, C++, and Java procedures, Web-enable your database, cut development time, and optimize performance. Create, debug, and manage Oracle-driven PL/SQL programs Use PL/SQL structures, delimiters, operators, variables, and statements Identify and eliminate errors using PLSQL_WARNINGS and exception handlers Work with functions, procedures, packages, collections, and triggers Define and deploy varray, nested table, and associative array data types Handle external routines, object types, large objects, and secure files Communicate between parallel sessions using DBMS_ALERT and DBMS_PIPE Call external procedures through Oracle Net Services and PL/SQL wrappers Integrate internal and server-side Java class libraries using Oracle JVM Develop robust Web applications using PL/SQL Gateway and Web Toolkit

Practical Solutions

Oracle Database 11g The Complete Reference

SQL Fundamentals I

Oracle Database 12c SQL

Die vierte Auflage dieser beliebten Taschenreferenz liefert Ihnen die wichtigsten Informationen, die Sie für die Arbeit mit Oracle PL/SQL benötigen, und deckt jetzt auch die neuen Features von Oracle Database 11g ab. Das Buch bietet eine Zusammenfassung

der Sprachelemente und Funktionen von PL/SQL und behandelt unter anderem folgende Themen: - Blockstruktur, Bezeichner, Variablen, Datentypen und Deklarationen - Anweisungen zur Ablaufsteuerung, zur Cursor-Verwaltung und zum Exception-Handling - Aufruf von PL/SQL-Funktionen in SQL - Datensätze, Prozeduren, Funktionen, Trigger und Packages - Kompilationsoptionen, objektorientierte Features und Collections

Presenting programming strategies and best practices for seamlessly operating between Oracle and MySQL platforms; this Oracle Press guide will show you how to migrate databases; port SQL dialects; work with Oracle MySQL databases; and configure effective queries. --

Oracle Advanced PL/SQL Developer Professional Guide, Second Edition Packt Publishing

The authors have revised and updated this bestseller to include both the Oracle8i and new Oracle9i Internet-savvy database products.

A Real-World Certification Guide

Oracle SQL Tuning with Oracle SQLTXPLAIN

Oracle Database 12c PL/SQL Programming

Oracle Database 12c PL/SQL Advanced Programming Techniques **Oca Oracle Database 11g Database Administration I**

If you have mastered the fundamentals of the PL/SQL language and are now looking for an in-depth, practical guide to solving real problems with PL/SQL stored procedures, then this is the book for you.

The PL/SQL programming language is at the core of most Oracle database applications. This training course will give attention to three fundamental pillars of effective implementation of PL/SQL applications. First, we will explore the advanced features of the language which allow powerful and adaptable database applications to be built. Next, we will discuss performance tuning techniques which allows these applications to run efficiently. Finally, we will consider critical security measures which should be implemented to counter hacker attacks and other security threats. Among the specific topics contained within these training materials are: Invoking external procedures and integrating these into PL/SQL applications. These include external Java classes using the JDBC interface and external C programs contained within DLL libraries; Using dynamic SQL to extend the functionality and flexibility of database programs, including the DBMS_SQL() system-supplied package for maximum flexibility; Identifying SQL injection attack vulnerabilities within an application and applying countermeasures to address security risks and protect against hacking; Incorporating collections and other advanced types into application logic to increase efficiency and execution speed; Working with LOBs, including piece-wise data manipulation and dynamic modification of SecureFile storage options; Expanding functionality with system-supplied database utility packages; Tuning

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with the DBMS_PROFILER() system-supplied package and debugging with the DBMS_TRACE() system-supplied package; Writing efficient PL/SQL code and avoiding common coding mistakes; Enabling native compilation and execution of all database-resident program units; Controlling and managing PL/SQL compilation for high-efficiency execution; Analyze PL/SQL code structure by means of the PL/Scope facility; Analyze PL/SQL application performance and tune bottlenecks using the PL/SQL Hierarchical Profiler; Implementing fine-grained security mechanisms as part of an advanced security model using application contexts and the Oracle virtual private database (VPD); Dynamic partitioning and DML parallelization using the system-supplied package DBMS_PARALLEL_EXECUTE(); Using the wrap utility to hide the source code of database-resident programs, even from the owner or authorized users of the programs.

A fully updated, integrated self-study system for the Oracle Database SQL Exam This thoroughly revised Oracle Press guide offers 100% coverage of all objectives on the latest version of the Oracle Database SQL Exam. Ideal both as a study guide and on-the-job reference, OCA Oracle Database SQL Exam Guide (Exam 1Z0-071) features detailed explanations, examples, practice questions, and chapter summaries. "Certification Objectives," "Exam Watch," and "On the Job" sections reinforce salient points throughout. You will gain access to two complete practice exams that match the tone, tenor, and format of the live test. Get complete coverage every topic on Exam 1Z0-071, including:

- DDL and SQL SELECT statements*
- Manipulating, restricting, and sorting data*
- Single-row and group functions*
- Displaying data from multiple tables*
- Subqueries*
- Schema objects*
- Set operators*
- Grouping related data*
- Report creation*
- Data dictionary views*
- Large*

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data sets • Hierarchical retrieval • Regular expression support • User access control The electronic includes: • Two full practice exams • Detailed answers and explanations

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Create and debug next-generation, feature-rich PL/SQL applications Push your PL/SQL programming skills to the next level with the extensive information contained in this volume. You'll learn how to write dynamic PL/SQL programs, interface with Oracle databases, execute complex calculations, and handle error conditions using advanced techniques. Plus, you'll get the latest on the PL/SQL Toolkit, Java integration, code threading, and performance optimizing. Oracle professionals Ron Hardman and Michael McLaughlin cover all the bases, providing real-world examples, undocumented tricks, syntax samples, and unique solutions for every topic. Compile high performance PL/SQL scripts using procedures, functions, packages and triggers Trap, trace, identify, and eliminate compile-time and runtime errors Manage error propagation, stacks, regular expressions, and metacharacters Exploit definer's-rights and invoker's-rights architectures Extend PL/SQL functionality using server-side and internal Java class libraries Build and run parallel PL/SQL program units using DBMS_JOB and DBMS_PIPE Exploit definer's-rights and invoker's-rights architectures Tune performance using statistics gathering, the PL/SQL optimizer, SQL Trace, DBMS_STATS, and TKPROF Use Oracle Text with PL/SQL Server Pages to perform theme/gist extraction, highlighting, stemming, fuzzy, and wildcard searching Administer server-side PL/SQL Toolkit web pages and PL/SQL Server Pages Secure, encrypt, and transmit data using DBMS_CRYPTO, UTL_COMPRESS,

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DBMS_DATAPUMP, and DBMS_FILE_TRANSFER

Oracle PL/SQL by Example

Oracle Database 11g PL/SQL Programming Workbook

Oracle PL / SQL For Dummies

New & Advanced Features For Developers

Mastering Oracle PL/SQL

*Write Powerful SQL Statements and PL/SQL Programs Learn how to access Oracle databases through SQL statements and construct PL/SQL programs. Oracle Database 12c SQL offers complete coverage of the latest database features and techniques. Find out how to write SQL statements to retrieve and modify database information, use SQL*Plus and SQL Developer, work with database objects, write PL/SQL programs, use performance optimization techniques, incorporate XML, and more. This Oracle Press guide contains everything you need to know to master SQL. Use SQL statements to access an Oracle database Work with SQL*Plus and SQL Developer Write PL/SQL programs Create tables, sequences, indexes, views, and triggers Design advanced queries containing complex calculations Create database objects to handle abstract data Use date, time stamp,*

and time interval data types Establish user roles and privileges Handle multimedia files using large objects Tune SQL statements to make them execute faster Generate, process, and store XML data Master the very latest Oracle Database 12c features Code examples in the book are available for download.

This book is packed with real world examples that cover all the advanced features of PL/SQL. In turn, each major certification topic is covered in a separate chapter that makes understanding concepts easier. At the end of each chapter, you will find plenty of practice questions to strengthen and test your learning. If you are a PL/SQL developer looking for deeper insight and a move from mid-level programmer to professional database developer, then this is the best guide for you. This book is also an ideal guide for all the Associate level PL/SQL programmers who are preparing for the Professional 1Z0-146 certification. This book assumes you have prior knowledge of PL/SQL programming.

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

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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 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 10g Developer

Generating Optimal Execution Plans

Oracle 11g: PL/SQL Programming

OCP: Oracle Database 11g Administrator Certified Professional Study Guide

Oracle Database 11g SQL

Learn how to most effectively use PL/SQL programming language with one of the most popular and widely-used software programs in large companies today -- Oracle 11g. ORACLE 11G: PL/SQL PROGRAMMING & ORACLE CD, 2E uses Oracle 11g to provide an overview of the

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PL/SQL programming language from a developer's perspective. The author begins with a step-by-step expanded introduction to fundamental PL/SQL concepts before progressing to the writing and testing of PL/SQL code. This edition also covers more advanced topics, such as Dynamic SQL and code tuning, as well as developments in bulk processing, compound triggers, PL/SQL compiler features and hiding source code. Updates reflect the latest Oracle 11g release with the most recent figures and examples using the user-friendly SQL Developer tool. A wealth of real-world examples, a straightforward presentation, and accompanying Oracle CD make this book an invaluable resource in preparing for the new Oracle Certification exam or mastering the PL/SQL programming language with Oracle. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Based on John Patrick's hands-on SQL IT professionals at the University of California, Berkeley, this book shows exactly how to retrieve the data you want, when you need it, in any application. This 2nd edition is completely updated to include Oracle 9i and Access 2000. The OCP certification is the second milestone for the experienced associate level Oracle professionals which enhances one's credibility in work environment, and catalyzes your employment opportunities. The Packt's book Oracle Advanced PL/SQL Developer Professional Guide helps you to master the advanced PL/SQL concepts in Oracle 11g. The book aims to be a sure selection for the experienced Oracle professionals aspiring for Professional level by writing Oracle certification exam "1Z0-146: Oracle Database 11g: Advanced PL/SQL". The

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topics covered in the book are in line with the Oracle University prescription for 1Z0-146 certification, which justify the version updates to be advanced and not complex. The book has been reviewed by Oracle ACEs Kamran Agayev, Ronald Rood, Mohan Dutta, and Marcel Hoefs. The book covers the advanced features of PL/SQL which are required to design and optimize the PL/SQL code in database applications. The features like collections, external procedures, server side result caching, enforce row level security using VPD, handling large objects and SecureFiles build up a concrete platform for a PL/SQL professional. Apart from the programming, the book makes instrumental recommendations on the usage of development tool SQL Developer, employing best practices in database environments and safeguarding the vulnerable areas in PL/SQL code to avoid code injection.

The primary objective of this Oracle 11g training course is to provide an introduction to the PL/SQL database programming language, based upon the latest features available with the Oracle database. Syntax, structure and features of the language are discussed in the context of database applications and programming. Major subject areas to be explored within this course book are: Understand the environment and context in which PL/SQL operates; Consider the advantages and benefits of PL/SQL within a database environment; Declaring program variables and complex data types; Developing logic within PL/SQL program blocks; Fetching data from the database into program variables; Returning program output to users; Handling program exceptions; Using explicit and implicit database cursors; Using the advanced features of nested blocks and subprograms; How to take advantage of advanced features such as regular

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expression support and the handling of string literals within program code

Study Guide for 1Z0-146: Oracle Database 11g: Advanced PL/SQL

Oracle SQL by Example

Oracle Database 11g : Hands-On Sql & PL/sql

OCA Oracle Database SQL Exam Guide (Exam 1Z0-071)

Covers Versions Through Oracle Database 12c

Find tips for creating efficient PL/SQL code If you know a bit about SQL, this book will make PL/SQL programming painless! The Oracle has spoken—you need to get up to speed on PL/SQL programming, right? We predict it'll be a breeze with this book! You'll find out about code structures, best practices, and code naming standards, how to use conditions and loops, where to place PL/SQL code in system projects, ways to manipulate data, and more. Discover how to Write efficient, easy-to-maintain code Test and debug PL/SQL routines Integrate SQL and PL/SQL Apply PL/SQL best practices Use new features introduced in Oracle 9i and 10g

The objective of this Oracle 11g course is to equip students to develop database server-side PL/SQL program units within an Oracle database. Major subject areas to be explored and secondary objectives are: Understanding application partitioning within a multi-tiered web-based systems architecture; Understanding the basic form and structure of program units stored within the database; Building and maintaining database-resident program units; Encapsulating program units within packages; Taking advantage of advanced programming techniques such as cursor variables and cursor expressions for efficient database processing

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logic; Handling intricate theoretical challenges, such as mutating tables; Building and maintaining DML-event and system-event database triggers, including advanced techniques using both simple triggers and compound triggers; Discuss the storage and execution model for database programs and how one can write efficient programs to maximize performance; Using system-supplied packages to extend the power of your SQL statements and PL/SQL applications

Ramp Up Your PL/SQL Programming Skills Master PL/SQL through the hands-on exercises, extensive examples, and real-world projects inside this Oracle Press guide. Filled with best practices, Oracle Database 11g PL/SQL Programming Workbook covers all the latest features and enhancements of the language. Mastery checks at the end of each chapter reinforce the material covered, and sample code from the book is available for download. Even experienced Oracle professionals will benefit from this practical resource. Understand the Oracle development architecture and the mechanics of connections Work with data types, structures, blocks, cursors, and PL/SQL semantics Write, deploy, and use functions, procedures, and packages Manage transactions and more Use dynamic SQL statements in real-world applications Support online transaction processing and data warehousing applications with external tables Find syntax samples and best practices to solve problems Write, deploy, and use object types For a complete list of Oracle Press titles, visit www.OraclePressBooks.com

Oracle SQL Tuning with SQLTXPLAIN is a practical guide to SQL tuning the way Oracle's own experts do it, using a freely downloadable tool called SQLTXPLAIN. Using this simple tool you'll learn how to tune even the most complex SQL, and you'll learn to do it quickly,

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without the huge learning curve usually associated with tuning as a whole. Firmly based in real world problems, this book helps you reclaim system resources and avoid the most common bottleneck in overall performance, badly tuned SQL. You'll learn how the optimizer works, how to take advantage of its latest features, and when it's better to turn them off. Quickly tune any SQL statement no matter how complex. Build and tune test cases without affecting production. Use the latest tuning features with confidence.