Oracle Pl Sql Programming Fundamentals A Tutorial By Examples

Start developing applications with Oracle PL/SQL-fast! This integrated book-and-Web learning solution teaches all the Oracle PL/SQL skills you need, hands on, through real-world labs, extensive examples, exercises, projects, and a complete Web-based training site. Oracle PL/SQL by Example, Third Edition covers Oracle 10G and all the fundamentals: Master PL/SQL syntax, iterative and conditional control, scoping, anchored datatypes, cursors, triggers, security, tables, procedures, functions, packages and Oracle-supplied packages-plus powerful new techniques for working with exceptions, cursors, collections, and records. Your free Web-based training module includes a Virtual Study Lounge where you can interact with other learners, work on new projects, and get updates! Totally integrated with a FREE, state-of-the-art Oracle 10G learning Web site! Every Prentice Hall Oracle Interactive Workbook is fully integrated with its own exclusive Web site, giving you all this and more: "Test Your Thinking" project solutions and detailed explanations Additional self-review exercises with instant feedback and explanations An exclusive Virtual Study Lounge where you can

interact with other students! Just the facts! No endless, boring discussions here! You'll learn hands on, through practical exercises, self-review questions, and real-world answers. Exclusive "Test Your Thinking" projects guarantee you'll go beyond rote knowledge to really master the subject! It's an integrated learning system that's proven to work!

PL/SQL, integrated with the Oracle database, is the procedural extension of SQL. This book is for PL/SQL beginners. When they finish reading the book and trying its examples, they would have equipped themselves with basic PL/SQL skills to start writing PL/SQL programs in a real-world development project. The second edition has three new chapters (Records & Collection, Privileges, and PL/SQL in Java), and five new topics added in existing chapters (Transaction, DDL statements, Stored Programs, Package, and Trigger)

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
Using PL/SQL for Oracle Database 12 c, you can build solutions that deliver unprecedented performance and efficiency in any environment, including the cloud. Oracle ® PL/SQL by Example, Fifth Edition, teaches all the PL/SQL skills you'll need, through real-world labs, extensive examples, exercises, and projects. Now fully updated for the newest version of PL/SQL, it covers everything from basic syntax and program control through the latest optimization and security enhancements. Step by step, you'll walk through every key task, mastering today's most valuable Oracle 12 c PL/SQL programming techniques on your own. Start by downloading projects and exercises from informit.com/title/0133796787. Once you've done an exercise, the authors don't just present the answer: They offer an in-depth discussion introducing deeper insights and modern best

practices. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL to professionals at Columbia University. New database developers and DBAs can use it to get productive fast; experienced PL/SQL programmers will find it to be a superb Oracle Database 12 c solutions reference. New in This Edition Updated code examples throughout Result-caching of invoker's right functions for better performance Extended support for PL/SQL-only data types in dynamic SQL, OCI, and JDBC Security enhancements, including ACCESSIBLE BY whitelists, improved privilege control, and Invisible Columns Other topics covered Mastering basic PL/SQL concepts and language fundamentals, and understanding SQL's role in PL/SQL Using conditional and iterative program control, including CONTINUE and CONTINUE WHEN Efficiently handling errors and exceptions Working with cursors and triggers, including compound triggers Using stored procedures, functions, and packages to write modular code that other programs can run Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced features.

Overview OBIEE 11g (Oracle Business Intelligence Enterprise Edition) Reports and Dashboards LiveLessons introduces students to the querying and analytical capabilities of Oracle Analytics using the web interface. This course is primarily

for business analysts or programmers utilizing OBIEE for analysis. Students will leave the course being able to produce reports and retrieve information from the Oracle RDBMS using the OBIEE web interface. Description In this LiveLessons video course, Oracle Ace Director Dan Hotka covers how to create, modify, run, and refine ad hoc queries. Students will learn to view, chart, and analyze multidimensional data. They will also learn to produce individual ad hoc reports and make these reports and information easy to access (dash boards). The final lesson focuses on using BI Publisher to transform these reports into polished/formatted/quality reports in about any language or format required. About the Instructor Dan Hotka is a training specialist and an Oracle ACE director who has more than 37 years in the computer industry and more than 31 years of experience with Oracle products. His experience with the Oracle RDBMS dates back to the Oracle V4.0 days. Dan enjoys sharing his knowledge of the Oracle RDBMS. Dan is well published with 12 Oracle books and more than 200 published articles. He is also the video author of several LiveLessons including Oracle SQL Performance Tuning for Developers LiveLessons and Oracle PL/SQL Programming: Fundamentals to Advanced LiveLessons . He is frequently published in Oracle trade journals, blogs regularly, and speaks at Oracle conferences and user groups around the world. Visit his website at

www.DanHotka.com. About Sneak Peek Sneak Peek videos are available to Safari Books Online subscribers offering early access to the very latest information on a given topic. Sneak Peek videos do not include post-production editing and may include further revisions before the video is complete. Skill Level Beginner Learn How To Use the OBIEE interface Retrieve data in a variety of formats Use report formatting Build dashboards and pass parameters Work with the publishing tool that is included in the base product Understand a variety of tips and techniques for distributing, saving, downloading various reports and data Who Should Take This Course Business analysts Programmers Course Requirements No prior knowledge of OBIEE is required A working knowledge of BI tools would be helpful Table of Cont...

"Learning Oracle PL/SQL" introduces PL/SQL in a way that's useful to a variety of audiences: beginning programmers, new Oracle database administrators, and developers familiar with other databases who now need to learn Oracle. A consistent and understandable example application--the development of a library's electronic catalog system--runs through the chapters.

"In this LiveLessons course, Oracle ACE Director Dan Hotka will teach you how to work with existing code and create new programs. Along the way, you 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). This hands-on course also covers how to use the PL/SQL Debugger and the PL/SQL profiler and how to apply PL/SQL performance tips."--Resource description page.

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 -- Oracle11g. ORACLE 11G: PL/SQL PROGRAMMING & ORACLE CD, 2E uses Oracle 11g to provide an overview of the 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 is 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.

What Is SQL guides beginners, experts, and intermediate readers through the most important aspects of declarative and procedural SQL. Knowledge gained includes the following: ? Designing, building, and querying relational databases in the latest versions of oracle and SQL

server databases ? Performing data-quality operations that eliminate corrupted data from databases ? Extending the functionality of SQL using PL/SQL and programmable T-SQL ? Building and loading data warehouses without using an expensive ETL tool ? Troubleshooting and tuning SQL code and database designs ? Extensive use of built-in functions to retrieve and transform data ? Translating complex business rules into database constraints ? Creating advanced queries that answer complex business questions ? Manipulating data within tables ? Creating recoverable business transactions ? Perform nonstandard SQL operations such as deleting duplicate rows Obtain a free sample of oracle11i and SQL server 2012 databases.

• What the book covers: Oracle PL/SQL For Dummies, 2nd Edition shows novice Oracle programmers how to use PL/SQL, the procedural programming language embedded in Oracle, to develop Oracle applications. Experienced Oracle programmers and project managers will also benefit from the best practices and code and naming standards material in the book. This book introduces PL/SQL and its relationship to SQL and includes coverage of the following: getting started with PL/SQL (e.g., language fundamentals, program control, exception handling, and packages); Oracle-specific programming topics (e.g., Oracle constructs of interest to PL/SQL developers and code-placement options); advanced PL/SQL (e.g., manipulating strings, manipulating dates, and manipulating numbers). The book also includes a database primer chapter, coverage of best practices (based on actual system-building experience) in sidebars throughout and in a full chapter, and coding and naming standards that can be adopted by organizations. All of the code in the book is provided dummies.com. • What's new in this edition: Oracle PL/SQL For Dummies, 2nd Edition will be fully revised for both the 11g and 12c versions of the database. The current edition was released in 2006 and

was based on Oracle Database versions 9i/10g. Since then there have been a number of important changes related to PL/SQL language. Oracle released two new versions of their database: Oracle 11g (R1 – 2007, R2 – 2009) and the most recent Oracle 12c (2013). Both 11g and 12c contain significant changes and improvements to the PL/SQL language and the new features would require new best practices for coding. Significant data growth is the major factor affecting database development. Row-by-row operations and basic scalar data types are just not enough anymore and the new edition will be revised to reflect more modern practices. • Series features: Oracle PL/SQL For Dummies, 2nd Edition is written in the friendly, easy-to-understand style that is the hallmark of the For Dummies brand.

Annotation This pocket reference condenses the most vital information from Oracle PL/SQL programming into an accessible quick reference that summarises the basics of PL/SQL - block structure, fundamental language elements, data structures, control statements, and use of procedures, functions and packages.

Using PL/SQL for Oracle Database 12c, you can build solutions that deliver unprecedented performance and efficiency in any environment, including the cloud. Oracle® PL/SQL by Example, Fifth Edition, teaches all the PL/SQL skills you'll need, through real-world labs, extensive examples, exercises, and projects. Now fully updated for the newest version of PL/SQL, it covers everything from basic syntax and program control through the latest optimization and security enhancements. Step by step, you'll walk through every key task, mastering today's most valuable Oracle 12cPL/SQL programming techniques on your own. Start by downloading projects and exercises from informit.com/title/0133796787. Once you've done an exercise, the authors don't just present the answer: They offer an in-depth discussion

introducing deeper insights and modern best practices. This book's approach fully reflects the authors' award-winning experience teaching PL/SQL to professionals at Columbia University. New database developers and DBAs can use it to get productive fast; experienced PL/SQL programmers will find it to be a superb Oracle Database 12csolutions reference. New in This Edition Updated code examples throughout Result-caching of invoker's right functions for better performance Extended support for PL/SQL-only data types in dynamic SQL, OCI, and JDBC Security enhancements, including ACCESSIBLE BY whitelists, improved privilege control, and Invisible Columns Other topics covered Mastering basic PL/SQL concepts and language fundamentals, and understanding SQL's role in PL/SQL Using conditional and iterative program control, including CONTINUE and CONTINUE WHEN Efficiently handling errors and exceptions Working with cursors and triggers, including compound triggers Using stored procedures, functions, and packages to write modular code that other programs can run Working with collections, object-relational features, native dynamic SQL, bulk SQL, and other advanced features

Focused squarely on the language topics of special concern to DBAs, this text contains a quick tour of the PL/SQL language, extensive coverage of security topics, and methods for DBAs to improve query and database performance with cursors and table functions.

The implementation of stored procedures in MySQL 5.0 a hugemilestone -- one that is expected to lead to widespread enterprise adoption ofthe already extremely popular MySQL database. If you are serious aboutbuilding the web-based database applications of the future, you need toget up to speed quickly on how stored procedures work -- and how tobuild them the right way. This book, destined to be the bible of storedprocedure development, is a

resource that no real MySQL programmer canafford to do without. In the decade since MySQL burst on the scene, it has become thedominant open source database, with capabilities and performancerivaling those of commercial RDBMS offerings like Oracle and SQLServer. Along with Linux and PHP, MySQL is at the heart of millions ofapplications. And now, with support for stored procedures, functions,and triggers in MySQL 5.0, MySQL offers the programming power neededfor true enterprise use. MySQL's new procedural language has a straightforward syntax, making iteasy to write simple programs. But it's not so easy to write secure,easily maintained, high-performance, and bug-free programs. Few in theMySQL world have substantial experience yet with stored procedures, butGuy Harrison and Steven Feuerstein have decades of combined expertise. In MySQL Stored Procedure Programming, they putthat hard-won experience to good use. Packed with code examples and coveringeverything from language basics to application building to advancedtuning and best practices, this highly readable book is the one-stopguide to MySQL development. It consists of four major sections: MySQL stored programming fundamentals -- tutorial, basicstatements, SQL in stored programs, and error handling Building MySQL stored programs -- transaction handling,built-in functions, stored functions, and triggers MySQL stored programs in applications -- using storedprograms with PHP, Java, Perl, Python, and .NET (C# and VB.NET) Optimizing MySQL stored programs -- security, basic andadvanced SQL tuning, optimizing stored program code, and programmingbest practices A companion web site contains many thousands of lines of code, that youcan put to use immediately. Guy Harrison is Chief Architect of Database Solutions at Quest Softwareand a frequent speaker and writer on MySQL topics. Steven Feuerstein isthe author of Oracle PL/SQL Programming, the classic reference for Oracle

stored programming for more than ten years. Both have decades of experience as database developers, and between them they have authored a dozen books.

The objective of this Oracle 11g training course is to provide an introduction to develop database server-side PL/SQL program units within an Oracle database. The areas covered include understanding the basic form and structure of program units stored within the database, building and maintaining stored procedures, functions, packaged programs, and database triggers. Additional topics include taking advantage of advanced programming techniques such as cursor variables and cursor expressions. This Oracle 11g course will prepare students for the Oracle certification exams (OCP).

"The objective of this Oracle 11g training course is to provide an introduction to develop database server-side PL/SQL program units within an Oracle database. The areas covered include understanding the basic form and structure of program units stored within the database, building and maintaining stored procedures, functions, packaged programs, and database triggers. Additional topics include taking advantage of advanced programming techniques such as cursor variables and cursor expressions. This Oracle 11g course will prepare students for the Oracle certification exams (OCP)."--Resource description page.

"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.

"This Learning Path includes Oracle SQL LiveLessons, Oracle PL/SQL Programming: Fundamentals to Advanced LiveLessons, and Toad for Oracle LiveLessons. Oracle SQL LiveLessons Video Training covers the basics of the Oracle SQL programming language. This course covers both Oracle standard SQL and the ANSI approved SQL that Oracle supports. The focus of the course is to give students working knowledge of the Oracle SQL language and at the conclusion of this course, students should be able to query the Oracle database. Oracle PL/SQL Programming: Fundamentals to Advanced LiveLessons begins with a fundamentals module that covers the basics of Oracle's language extension for SQL and the Oracle relational database. The focus is to give students with a working knowledge of SQL the ability to develop Oracle procedures, functions, and packages using the PL/SQL language. The advanced module teaches developers with PL/SQL experience the new and advanced features of the PL/SQL language along with performance tuning techniques. Toad for Oracle LiveLessons video training covers the latest features of TOAD necessary to view, extract, and manipulate data within the Oracle database. This course is designed for both the developer using Toad to aid in programming

Oracle objects, as well as for the business analyst using Toad as a query tool for data extraction and analysis."--Resource description page.

Provides quick-reference information that will help you use Oracle's PL/SQL languange, including the newest Oracle Database 10g features. This is a companion to Steven Feuerstein and Bill Pribyl's Oracle PL/SQL Programming. Beginning Oracle PL/SQL gets you started in using the built-in language that every Oracle developer and database administrator must know. Oracle Database is chock-full of built-in application features that are free for the using, and PL/SQL is your ticket to learning about and using those features from your own code. With it, you can centralize business logic in the database, you can offload application logic, and you can automate database- and application-administration tasks. Author Don Bales provides in Beginning Oracle PL/SQL a fast-paced and example-filled tutorial. Learn from Don's extensive experience to discover the most commonly used aspects of PL/SQL, without wasting time on obscure and obsolete features. The author takes his 20+ years of experience and a wealth of statistics he's gathered on PL/SQL usage over those years and applies the 80/20 rule: cover what's most needed and used by PL/SQL professionals and avoid what's not necessary! The result is a book that covers all the key features of PL/SQL without wasting your time discussing esoteric and obsolete parts of the

language. Learn what really matters, so that you can get to work feeling confident with what you know about PL/SQL. Covers the key topics that matter, including variables and datatypes, executing statements, working with cursors, bulk operations, real-world objects, debugging, testing, and more. Teaches you to write production-level, object-oriented PL/SQL. You'll explore relational PL/SQL, but unlike most other books on the subject, this one emphasizes the use of PL/SQLs object-oriented features as well. Guides you in working through real examples of using of PL/SQL. You'll learn PL/SQL by applying it to real-world business problems, not by heavy theory.

PL/SQL is the Oracle Procedural Language extension of SQL. PL/SQL is integrated within the Oracle database. A PL/SQL program can have both SQL statements and procedural statements. In the program, the SQL statements are used to access sets of data stored in a database, while the procedural statements are used to process individual piece of data and control the program flow, by applying, for example, the PL/SQL's if-then-else and looping structures. This book, Oracle PL/SQL Programming Fundamentals By Examples, is for PL/SQL beginners. If you have no prior or limited skill of PL/SQL, and you want to learn the Oracle PL/SQL programming language the practical way, then this book is perfect for you. When you finish reading the book and trying its examples,

you would have equipped yourself with PL/SQL fundamental skills to start writing some PL/SQL programs for a real-world development project. Source codes listing of the examples are included in the Appendix of the book.

For the past ten years, O'Reilly's Oracle PL/SQL Programming has been the bestselling book on PL/SQL, Oracle's powerful procedural language. Packed with examples and helpful recommendations, the book has helped everyone--from novices to experienced developers, and from Oracle Forms developers to database administrators--make the most of PL/SQL. The fourth edition is a comprehensive update, adding significant new content and extending coverage to include the very latest Oracle version, Oracle Database 10g Release 2. It describes such new features as the PL/SQL optimizing compiler, conditional compilation, compile-time warnings, regular expressions, set operators for nested tables, nonsequential collections in FORALL, the programmer-defined quoting mechanism, the ability to backtrace an exception to a line number, a variety of new built-in packages, and support for IEEE 754 compliant floating-point numbers. The new edition adds brand-new chapters on security (including encryption, row-level security, fine-grained auditing, and application contexts), file, email, and web I/O (including the built-in packages DBMS_OUTPUT, UTL_FILE, UTL_MAIL, UTL_SMTP, and UTL_HTTP) and globalization and

localization. Co-authored by the world's foremost PL/SQL authority, Steven Feuerstein, this classic reference provides language syntax, best practices, and extensive code, ranging from simple examples to complete applications--making it a must-have on your road to PL/SQL mastery. A companion web site contains many more examples and additional technical content for enhanced learning. 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 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

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. 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 Languages - Syntax summary for SQL language statements, SQL function calls PL/SQL language statements and characteristics, PL/SQL built-in package headers, and Java (JDBC and SQLJ) interfaces to the Oracle database. 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 PL/SQL, Oracle's powerful procedural language, has been the cornerstone of Oracle application development for nearly 15 years. Although primarily a tool for developers, PL/SQL has also become an essential tool for database administration, as DBAs take increasing responsibility for site performance and as the lines between developers and DBAs blur. Until now, there has not been a book focused squarely on the language topics of special concern to DBAs Oracle PL/SQL for DBAs fills the gap. Covering the latest Oracle version, Oracle Database 10g Release 2 and packed with code and usage examples, it contains: A quick tour of the PL/SQL language, providing enough basic information about language fundamentals to get DBAs up and running Extensive coverage of security topics for DBAs: Encryption (including both traditional methods and Oracle's new Transparent Data Encryption, TDE); Row-Level Security(RLS), Fine-

Grained Auditing (FGA); and random value generation Methods for DBAs to improve query and database performance with cursors and table functions Coverage of Oracle scheduling, which allows jobs such as database monitoring andstatistics gathering to be scheduled for regular execution Using Oracle's built-in packages (DBMS_CRYPTO, DBMS_RLS, DBMS_FGA, DBMS_RANDOM,DBMS_SCHEDULING) as a base, the book describes ways of building on top of these packages to suit particular organizational needs. Authors are Arup Nanda, Oracle Magazine 2003 DBA of the Year, and Steven Feuerstein, the world's foremost PL/SQL expert and coauthor of the classic reference, Oracle PL/SQL Programming. DBAs who have not yet discovered how helpful PL/SQL can be will find this book a superb introduction to the language and its special database administration features. Even if you have used PL/SQL for years, you'll find the detailed coverage in this book to be an invaluable resource.

Teaches all the Oracle PL/SQL skills needed to start developing PL/SQL fast, through hundreds of extensive exercises, examples, and projects.

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. The primary objective of this Oracle 11g training course is to provide an introduction to the PL/SQL database programming language covering syntax, structure and features of the language within the context of database applications and programming. This book has been prepared for the Computer Science and Information Technology graduates

to help them understand the basic to basic concepts related to PL/SQL as oracle database programming language. After completing this book you will find yourself at a moderate level of expertise in using PL/SQL for database and software development. This PL/SQL book teaches you the basics of database programming in PL/SQL with appropriate PL/SQL tutorials with coding examples. You can use this book as your guide to practice, learn, for training, or reference while programming with PL SQL. This book will be making more Oracle PL SQL programming tutorials as often as possible to share my knowledge in PL SQL and help you in learning PL SQL language and syntax better.This PL/SQL book offers straightforward, practical answers when you need fast results. By working through the book's 11 lessons of 10 minutes or less, you'll learn what you need to know to take advantage of Oracles PL/SQL language. This book as a guide starts with simple data retrieval and moves on to more complex topics, including the use of joins, sub queries, regular expression and full text-based searches, stored procedures, cursors, triggers, table constraints, and much more.Even though the programming concepts discussed in this book is specific to Oracle PL/SQL. The concepts like cursor, functions and stored procedures can be used in other database systems like Sybase, Microsoft SQL server etc, with some change in SQL syntax. This book makes an assumption that you are already aware about basic computer software including SQL and hardware concepts like what is primary and secondary memory, various storage systems, operating system and applications etc. If you are not well aware of these concepts then I will suggest going through a short tutorial on Computer Fundamentals.

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
Be more productive with the Oracle PL/SQL language. The fifth edition of this popular pocket reference puts the syntax of specific PL/SQL language elements right at your fingertips, including features added in Oracle Database 12c. Whether you're a developer or database administrator, when you need answers quickly, the Oracle PL/SQL Language Pocket Reference will save you hours of frustration with concise summaries of: Fundamental language elements, such as block structure, datatypes, and declarations Statements for program control, cursor management, and exception handling Records, procedures, functions, triggers, and packages Execution of PL/SQL functions in SQL Compilation options, object-oriented features, collections, and Java integration This handy pocket reference is a perfect companion to Steven

Feuerstein and Bill Pribyl's bestselling Oracle PL/SQL Programming. Explains how to develop applications using Oracle PL/SQL, covering such concepts as iterative and conditional control, scoping, anchored datatypes, security, tables, and cursors.
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