

# Oracle Database 12c PL/SQL Programming

ORACLE DATABASE 12c

Design and Deploy Powerful, Database-Centric  
PL/SQL Applications



Michael McLaughlin  
Oracle ACE

INDIAN EDITION

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# Oracle Database 12c Plsql Programming

**Steven Feuerstein, Bill Pribyl**



## **Oracle Database 12c Plsql Programming:**

**Oracle PL/SQL Programming** Steven Feuerstein,Bill Pribyl,2014-01-23 Considered the best Oracle PL SQL programming guide by the Oracle community this definitive guide is precisely what you need to make the most of Oracle s powerful procedural language The sixth edition describes the features and capabilities of PL SQL up through Oracle Database 12c Release 1 Hundreds of thousands of PL SQL developers have benefited from this book over the last twenty years this edition continues that tradition With extensive code examples and a lively sense of humor this book explains language fundamentals explores advanced coding techniques and offers best practices to help you solve real world problems Get PL SQL programs up and running quickly with clear instructions for executing tracing testing debugging and managing code Understand new 12 1 features including the ACCESSIBLE\_BY clause WITH FUNCTION and UDF pragma BEQUEATH CURRENT\_USER for views and new conditional compilation directives Take advantage of extensive code samples from easy to follow examples to reusable packaged utilities Optimize PL SQL performance with features like the function result cache and Oracle utilities such as PL Scope and the PL SQL hierarchical profiler Build modular easy to maintain PL SQL applications using packages procedures functions and triggers

**Oracle Database 12c PL/SQL Programming** Michael McLaughlin,2014-02-07 Master Oracle Database 12c PL SQL Application Development Develop debug and administer robust database programs Filled with detailed examples and expert strategies from an Oracle ACE Oracle Database 12c PL SQL Programming explains how to retrieve and process data write PL SQL statements execute effective queries incorporate PHP and Java and work with dynamic SQL Code testing security and object oriented programming techniques are fully covered in this comprehensive Oracle Press guide Explore new SQL and PL SQL features in Oracle Database 12c Build control structures cursors and loop statements Work with collections varrays tables and associative array collections Locate and repair errors and employ exception handlers Execute black box white box and integration tests Configure and manage stored packages and libraries Handle security with authentication and encryption Use LOBs to store text and multimedia content Write and implement PL SQL and Java triggers Extend functionality using dynamic SQL statements Understand object types nested tables and unnesting queries

**Oracle Database 12c PL/SQL Advanced Programming Techniques** Michael McLaughlin,John M. Harper,2014-11-14 Take Your PL SQL Programming Skills to the Next Level Build robust database centric PL SQL applications quickly and effectively Oracle Database 12c PL SQL Advanced Programming Techniques shows you how to write and deploy Java libraries inside Oracle Database 12c use the utl\_file and DBMS\_SCHEDULER packages and create external tables and external procedures Application security performance tuning and Oracle Database In Memory are also covered in this Oracle Press guide Configure deploy and troubleshoot Java libraries for Oracle object types Use the utl\_file package to manage unstructured and structured data Develop and deploy Java I O libraries and wrap them with PL SQL Create and use external tables Implement high speed data transfer Harden database systems and develop secure

applications Manage complex schedules and jobs with the DBMS\_SCHEDULER package Optimize PL SQL for use in performance tuning Create and deploy external procedures Implement the Oracle Database In Memory column store feature

*Advanced Oracle PL/SQL Developer's Guide* Saurabh K. Gupta, 2016-02-15 Master the advanced concepts of PL SQL for professional level certification and learn the new capabilities of Oracle Database 12c About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination Build robust and secure applications in Oracle PL SQL using the best practices Packed with feature demonstrations and illustrations that will help you learn and understand the enhanced capabilities of Oracle Database 12c Who This Book Is For This book is for Oracle developers responsible for database management Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL SQL programming Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL SQL What You Will Learn Learn and understand the key SQL and PL SQL features of Oracle Database 12c Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c Know more about the advanced concepts of the Oracle PL SQL language such as external procedures securing data using Virtual Private Database VPD SecureFiles and PL SQL code tracing and profiling Implement Virtual Private Databases to prevent unauthorized data access Trace analyze profile and debug PL SQL code while developing database applications Integrate the new application development features of Oracle Database 12c with the current concepts Discover techniques to analyze and maintain PL SQL code Get acquainted with the best practices of writing PL SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred Oracle Database is sometimes compared with Microsoft SQL Server however Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime Oracle PL SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience *Advanced Oracle PL SQL Developer's Guide* Second Edition is a handy technical reference for seasoned professionals in the database development space This book starts with a refresher of fundamental concepts of PL SQL such as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification

examination but doesn't restrict itself to the exam objectives. Advanced concepts have been explained in an easy-to-understand style supported with feature demonstrations and case illustrations.

*Oracle PL/SQL Language Pocket Reference* Steven Feuerstein, Bill Pribyl, Chip Dawes, 2015-09-09. 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*.

*Oracle 12c/11g/10g* Maria Perez Marques, 2014-03-07. The book starts at a basic level with the idea of introducing the reader step by step through the programming of Oracle, taking him by the hand to achieve an advanced level. It will start showing the introduction of code in the SQL Plus environment and the extensive development of the entity relationship through Oracle SQL, which is the mainstay of programming in relational databases. Also, it is exhaustively procedural programming language PL/SQL Oracle, which extends the standard SQL language.

*Oracle PL/SQL by Example* Benjamin Rosenzweig, Elena Rakhimov, 2015-02-10. 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 12c PL/SQL programming techniques on your own. Start by downloading projects and exercises from [informit.com](http://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 12c 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 *Beginning Oracle SQL* Tim Gorman, Inger Jorgensen, Melanie Caffrey, Lex deHaan, 2014-03-18 Beginning Oracle SQL is your introduction to the interactive query tools and specific dialect of SQL used with Oracle Database These tools include SQL Plus and SQL Developer SQL Plus is the one tool any Oracle developer or database administrator can always count on and it is widely used in creating scripts to automate routine tasks SQL Developer is a powerful graphical environment for developing and debugging queries Oracle s is possibly the most valuable dialect of SQL from a career standpoint Oracle s database engine is widely used in corporate environments worldwide It is also found in many government applications Oracle SQL implements many features not found in competing products No developer or DBA working with Oracle can afford to be without knowledge of these features and how they work because of the performance and expressiveness they bring to the table Written in an easygoing and example based style Beginning Oracle SQL is the book that will get you started down the path to successfully writing SQL statements and getting results from Oracle Database Takes an example based approach with clear and authoritative explanations Introduces both SQL and the query tools used to execute SQL statements Shows how to create tables populate them with data and then query that data to generate business results **Oracle Database 12c Release 2 Performance Tuning Tips & Techniques** Richard Niemiec, 2017-03-22 Proven Database Optimization Solutions Fully Updated for Oracle Database 12c Release 2 Systematically identify and eliminate database performance problems with help from Oracle Certified Master Richard Niemiec Filled with real world case studies and best practices Oracle Database 12c Release 2 Performance Tuning Tips and Techniques details the latest monitoring troubleshooting and optimization methods Find out how to identify and fix bottlenecks on premises and in the cloud configure storage devices execute effective queries and develop bug free SQL and PL SQL code Testing reporting and security enhancements are also covered in this Oracle Press guide Properly index and partition Oracle Database 12c Release 2 Work effectively with Oracle Cloud Oracle Exadata and Oracle Enterprise Manager Efficiently manage disk drives ASM RAID arrays and memory Tune queries with Oracle SQL hints and the Trace utility Troubleshoot databases using V views and X tables Create your first cloud database service and prepare for hybrid cloud Generate reports using Oracle s Statspack and Automatic Workload Repository tools Use sar vmstat and iostat to monitor operating system statistics Oracle PL/SQL Programming, 6th Edition Steven Feuerstein. Bill Pribyl, 2014 Oracle Database 12c SQL Jason Price, 2013-06-26 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

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**Oracle Database 10g PL/SQL Programming** Scott Urman,Ron Hardman,Michael McLaughlin,2004-10-07 Create dynamic client server applications using PL SQL and the comprehensive information contained in this authoritative volume Expert Oracle insiders cover the features of PL SQL explain scripting semantics and syntax and fully detail the PL SQL functionality of Oracle Database 10g You ll learn how to write powerful PL SQL programs interact with Oracle databases perform complex calculations and handle error conditions

ORACLE DATABASE 12C HANDS-ON SQL AND PL/SQL, Second Edition ASNANI, SATISH,2015-11-15 The book teaches the basics of the Oracle database from a beginner s perspective to the advanced concepts using a hands on approach Each and every concept has been elaborated with suitable practical examples along with code for clear and precise understanding of the topic Using a practical approach this new edition of the book covers the detailed introspection of pluggable databases and explains practically the various new features incorporated in the new 12c version It also explains how to retrieve add update and delete data in the Oracle database using SQL SQL PLUS and PL SQL In the process it discusses the various data types and built in functions of Oracle as well as the sorting of records and the table operations The text also includes coverage of advanced queries using special operators Oracle security indexing and stored functions and procedures The book is suitable for undergraduate engineering students of Computer Science and Information Technology B Sc Computer Science IT M Sc Computer Science IT and students of Computer Applications BCA MCA PGDCA and DCA Besides the book can be

used as a reference by professionals pursuing short term courses on Oracle Database and students of Oracle Certified Courses

**KEY FEATURES** Based on latest Oracle Database 12c It explains the various features introduced with the new Oracle Database 12c software Hands on methodology Its objective is to impart practical skills using hands on methodology Elaborate Practical Examples Each topic begins with appropriate theory and concept followed by relevant examples for better understanding of the concepts Commands tested and executed on Oracle Database software All the programming examples have been tested on actual Oracle Database software

*Oracle Database 12c SQL* Jason Price,2013-09-10 This Oracle Press guide shows you how to retrieve and modify database information use SQL Plus and SQL Developer work with database objects write PL SQL programs and much more In depth coverage of the latest SQL features and tools performance optimization techniques advanced queries Java support and XML is included Carefully revised to cover SQL Plus SQL Developer and more

*Oracle PL/SQL For Dummies* Michael Rosenblum,Paul Dorsey,2015-04-13 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

**Oracle Database 12c DBA Handbook** Bob Bryla,2015-07-03 The definitive reference for every Oracle DBA completely updated for Oracle Database 12c Oracle Database 12c DBA Handbook is the quintessential tool for the DBA with an emphasis on the big picture enabling administrators to achieve effective and efficient database management Fully revised to cover every new feature and utility this Oracle Press guide shows how to

harness cloud capability perform a new installation upgrade from previous versions configure hardware and software handle backup and recovery and provide failover capability The newly revised material features high level and practical content on cloud integration storage management performance tuning information management and the latest on a completely revised security program Shows how to administer a scalable flexible Oracle enterprise database Includes new chapters on cloud integration new security capabilities and other cutting edge features All code and examples available online

*Oracle Database 12c Install, Configure & Maintain Like a Professional* Ian Abramson, Michael Abbey, Michelle Malcher, Michael J. Corey, 2013-09-25 Annotation Master the Fundamentals of Oracle Database 12c Filled with easy to follow tutorials this Oracle Press guide provides detailed coverage of core database concepts the role of the administrator and enterprise database capabilities Oracle Database 12c Install Configure Maintain Like a Professional walks you through database configuration administration programming backup and recovery and high availability You ll get in depth introductions to SQL and PL SQL as well as important information on managing large databases and using Oracle s engineered systems This essential beginner s resource features Critical Skills Lists of specific skills covered in each chapter Projects Practical exercises that show how to apply the critical skills learned in each chapter Progress Checks Quick self assessment sections to check your progress Ask the Expert Q A sections filled with helpful tips Notes Extra information related to the topic being covered Mastery Checks Chapter ending quizzes to test your knowledge

*Oracle Database 12c Release 2 In-Memory: Tips and Techniques for Maximum Performance* Joyjeet Banerjee, 2017-02-22 Master Oracle Database 12c Release 2 s powerful In Memory option This Oracle Press guide shows step by step how to optimize database performance and cut transaction processing time using Oracle Database 12c Release 2 In Memory Oracle Database 12c Release 2 In Memory Tips and Techniques for Maximum Performance features hands on instructions best practices and expert tips from an Oracle enterprise architect You will learn how to deploy the software use In Memory Advisor build queries and interoperate with Oracle RAC and Multitenant A complete chapter of case studies illustrates real world applications Configure Oracle Database 12c and construct In Memory enabled databases Edit and control In Memory options from the graphical interface Implement In Memory with Oracle Real Application Clusters Use the In Memory Advisor to determine what objects to keep In Memory Optimize In Memory queries using groups expressions and aggregations Maximize performance using Oracle Exadata Database Machine and In Memory option Use Swingbench to create data and simulate real life system workloads

**Oracle8 PL/SQL Programming** Scott Urman, 1997-01-01 Designed for both the novice programmer as well as the experienced systems engineer this text seeks to show the reader how to develop test debug and tune Oracle applications using Visual Basic SQL Windows and developer 2000 New features such as LOBs and ADTs are integrated throughout the book It also includes common business problems and their solutions using PL SQL using real world examples where applicable

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