Advanced Oracle PL/SQL Developer's Guide - Second Edition

By Saurabh K. Gupta

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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.

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Editorial Review

Review
Advanced Oracle PL/SQL Developer's Guide - Second Edition is a very readable book on PL/SQL which explains the basic concepts as well as some of the more advanced topics, like optimization of the code. Besides the topics that have been around since the first versions of PL/SQL it also shines some light on the newer, database 12c, features. As you may not be using all the features available in the database in your day to day work, it is always good to know that a certain feature exists. When you find a use case for it and want to know more about it, you can use this book and it's example code to build your own solution. If you are using this book as a learning tool for your certification then you will like the practice exercises at the end of each chapter.

If I had had this book available to me when I was studying for my OCA and OCP exams, I know it would have been a great asset to expanding my knowledge.

Patrick Barel
Oracle ACE, OCP, OCA

About the Author

Saurabh K. Gupta

Saurabh K. Gupta is a seasoned database technologist with extensive experience in designing high performance and highly available database applications. His technology focus has been centered around Oracle Database architecture, Oracle Cloud platform, Database In-Memory, Database Consolidation, Multitenant, Exadata, Big Data, and Hadoop. He has authored the first edition of this book. He is an active speaker at technical conferences from Oracle Technology Network, IOUG Collaborate'15, AIOUG Sangam, and Tech Days. Connect with him on his twitter handle (or SAURABHKG) or through his technical blog www.sbhoracle. wordpress.com, with comments, suggestions, and feedback regarding this book.

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