

PL/SQL Fundamentals

The screenshot displays the Oracle SQL Developer interface with several code snippets and annotations:

- Annotations:** Blue arrows point from the 'Views' and 'Triggers' categories in the left-hand tree to their respective code blocks. A red arrow points from the 'Triggers' category to the trigger code block.
- Code Snippets:**
 - View:** `CREATE VIEW emp_sal_view AS SELECT * FROM employee WHERE salary > 50000;`
 - Procedure:** `CREATE OR REPLACE PROCEDURE welcome AS BEGIN dbms_output.put_line('Welcome here!'); END;`
 - Function:** `CREATE OR REPLACE FUNCTION add_numbers (n1 IN NUMBER, n2 IN NUMBER) RETURN NUMBER IS n3 NUMBER; BEGIN n3 := n1+n2; RETURN n3; END;`
 - Trigger:** `CREATE TRIGGER emp_sal_trigger AFTER UPDATE OF emp_salary ON employee FOR EACH ROW BEGIN INSERT INTO emp_sal_log (emp_id, emp_salary, emp_dept) VALUES (OLD.emp_id, NEW.emp_salary, 'Records is updated!'); END;`
 - Data Manipulation Language (DML):** `DELETE FROM customers WHERE last_name = 'Scott'; INSERT INTO suppliers (supplier_id, sup_name) VALUES (1, 'Supplier'); UPDATE customers SET last_name = 'Scott'; MERGE INTO employees USING emp_sal_log ON DUPLICATE KEY UPDATE last_name = emp_sal_log.last_name;`
 - Data Definition Language (DDL):** `CREATE TABLE customers (customer_id NUMBER(4), last_name VARCHAR2(25)); CREATE TABLE departments (department_id NUMBER(4), department_name VARCHAR2(100)); ALTER TABLE table_name RENAME TO new_table;`
 - Group by/rolling aggregate function:** `SELECT employee_id, Count(*) FROM employee GROUP BY employee_id ORDER BY Count(*) /;`
- Query Output:** A table with columns: EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, PHONE_NUMBER, HIRE_DATE, JOB_ID, SALARY, COMMISSION_PCT, MANAGER.

Oracle Database 12c Sql And Pl Sql Fundamentals

Lingjun Ying



Oracle Database 12c Sql And Pl Sql Fundamentals:

OCA Oracle Database 12c SQL Fundamentals I Exam Guide (Exam 1Z0-061) Roopesh Ramklass,2014-04-25 A Complete Study System for OCA Exam 1Z0 061 Prepare for the Oracle Certified Associate Oracle Database 12c SQL Fundamentals I exam with this Oracle Press guide Each chapter features challenging exercises a certification summary a two minute drill and a self test to reinforce the topics presented This authoritative resource helps you pass the exam and also serves as an essential on the job reference Get complete coverage of all OCA objectives for exam 1Z0 061 including Data retrieval using the SQL SELECT statement Restricting and sorting data Single row functions Using conversion functions and conditional expressions Reporting aggregated data with the group functions Displaying data from multiple tables with joins Using subqueries to solve problems Using the set operators Manipulating data with DML statements Using DDL statements to create and manage tables Electronic content includes 150 practice exam questions with detailed answers and explanations Score report performance assessment tool

[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

[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 *OCA: Oracle Database 12c Administrator Certified Associate Study Guide* Biju Thomas,2014-05-02 An all in one study guide prepares you for the updated Oracle Certified Associate certification It s been nearly six years since Oracle updated its cornerstone database software making the demand for a comprehensive study guide for the OCA 12c certification a top priority This resource answers that demand Packed with invaluable insight chapter review questions bonus practice exams hundreds of electronic flashcards and a searchable glossary of terms this study guide prepares you for the challenging Oracle certification exams Provides you with a solid understanding of restricting and sorting data Walks you through using conversion functions and conditional expressions Addresses displaying data from multiple tables manipulating data database maintenance and database backups and recovery Explores the Oracle database architecture and discusses preparing the database environment creating an Oracle database and managing the Oracle instance Focuses on administering and implementing user security This must have study guide thoroughly prepares you to take the dramatically updated Oracle 12c

OCA exams **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 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 **Analytic SQL in SQL Server 2014/2016** Riadh Ghlala,2019-08-20 Business Intelligence BI has emerged as a field which seeks to support managers in decision making It encompasses the techniques methods and tools for conducting analytically based IT solutions which are referred to as OLAP OnLine Analytical Processing Within this field SQL has a role as a leader and is continuously evolving to cover both transactional and analytical data management This book discusses the functions provided by Microsoft SQL Server 2014 2016 in terms of business intelligence The analytic functions are considered as an enrichment of the SQL language They combine a series of practical functions to answer complex analysis requests with all the simplicity elegance and acquired performance of the SQL language Drawing on the wide experience of the author in teaching and research as well as insights from contacts in the industry this book focuses on the issues and difficulties faced by academics students and teachers and professionals engaged in data analysis with the SQL Server 2014 2016 database management system **Database Management System Authors** Mrs.B.Meenakshi,Mrs.G.Nivethitha,Mrs.U.Indumathi,Mrs.B.Rajalakshmi,2025-08-04

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external tables Implement high speed data transfer Harden database systems and develop secure applications Manage complex schedules and jobs with the DBMS_SCHEDULER package Optimize PL SQL for use in performance tuning Create and deploy external procedures Implement the Oracle Database In Memory column store feature

Oracle PL/SQL Performance Tuning Tips & Techniques Michael Rosenblum, Paul Dorsey, 2014-08-29 Proven PL SQL Optimization Solutions In Oracle PL SQL Performance Tuning Tips Techniques Oracle ACE authors with decades of experience building complex production systems for government industry and educational organizations present a hands on approach to enabling optimal results from PL SQL The book begins by describing the discovery process required to pinpoint performance problems and then provides measurable and repeatable test cases In depth coverage of linking SQL and PL SQL is followed by deep dives into essential Oracle Database performance tuning tools Real world examples and best practices are included throughout this Oracle Press guide Follow a request driven nine step process to identify and address performance problems in web applications Use performance related database tools including data dictionary views logging tracing PL SQL Hierarchical Profiler PL Scope and RUNSTATS Instrument code to pinpoint performance issues using call stack APIs error stack APIs and timing markers Embed PL SQL in SQL and manage user defined functions Embed SQL in PL SQL using a set based approach to handle large volumes of data Properly write and deploy data manipulation language triggers to avoid performance problems Work with advanced datatypes including LOBs and XML Use caching techniques to avoid redundant operations Effectively use dynamic SQL to reduce the amount of code needed and streamline system management Manage version control and ensure that performance fixes are successfully deployed Code examples in the book are available for download

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

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Real World SQL and PL/SQL: Advice from the Experts Arup Nanda,Brendan Tierney,Heli Helskyaho,Martin Widlake,Alex Nuijten,2016-08-22 Master the Underutilized Advanced Features of SQL and PL SQL This hands on guide from Oracle Press shows how to fully exploit lesser known but extremely useful SQL and PL SQL features and how to effectively use both languages together Written by a team of Oracle ACE Directors Real World SQL and PL SQL Advice from the Experts features best practices detailed examples and insider tips that clearly demonstrate how to write troubleshoot and implement code for a wide variety of practical applications The book thoroughly explains underutilized SQL and PL SQL functions and lays out essential development strategies Data modeling advanced analytics database security secure coding and administration are covered in complete detail Learn how to Apply advanced SQL and PL SQL tools and techniques Understand SQL and PL SQL functionality and determine when to use which language Develop accurate data models and implement business logic Run PL SQL in SQL and integrate complex datasets Handle PL SQL instrumenting and profiling Use Oracle Advanced Analytics and Oracle R Enterprise Build and execute predictive queries Secure your data using encryption hashing redaction and masking Defend against SQL injection and other code based attacks Work with Oracle Virtual Private Database Code examples in the book are available for download at www.MHPProfessional.com TAG For a complete list of Oracle Press titles visit www.OraclePressBooks.com

Oracle Database 12c The Complete Reference Bob Bryla,Kevin Loney,2013-10-02 Maintain a scalable highly available enterprise platform and reduce complexity by leveraging the powerful new tools and cloud enhancements of Oracle Database 12c This authoritative Oracle Press guide offers complete coverage of installation configuration tuning and administration Find out how to build and populate Oracle databases perform effective queries design applications and secure your enterprise data Oracle Database 12c The Complete Reference also contains a comprehensive appendix covering commands keywords features and functions

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

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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 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

Oracle 12c For Dummies Chris Ruel,Michael Wessler,2013-10-24 Demystifying the power of the Oracle 12c database The Oracle database is the industry leading relational database management system RDMS used from small companies to the world s largest enterprises alike for their most critical business and analytical processing Oracle 12c includes industry leading enhancements to enable cloud computing and empowers users to manage both Big Data and traditional data structures faster and cheaper than ever before Oracle 12c For Dummies is the perfect guide for a novice database administrator or an Oracle DBA who is new to Oracle 12c The book covers what you need to know about Oracle 12c architecture software tools and how to successfully manage Oracle databases in the real world Highlights the important features of Oracle 12c Explains how to create populate protect tune and troubleshoot a new Oracle database Covers advanced Oracle 12c technologies including Oracle Multitenant the pluggable database concept as well as several other key changes in this release Make the most of Oracle 12c s improved efficiency stronger security and simplified management capabilities with Oracle 12c For

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Table of Contents Oracle Database 12c Sql And Pl Sql Fundamentals

1. Understanding the eBook Oracle Database 12c Sql And Pl Sql Fundamentals
 - The Rise of Digital Reading Oracle Database 12c Sql And Pl Sql Fundamentals
 - Advantages of eBooks Over Traditional Books
2. Identifying Oracle Database 12c Sql And Pl Sql Fundamentals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Oracle Database 12c Sql And Pl Sql Fundamentals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Oracle Database 12c Sql And Pl Sql Fundamentals
 - Personalized Recommendations
 - Oracle Database 12c Sql And Pl Sql Fundamentals User Reviews and Ratings
 - Oracle Database 12c Sql And Pl Sql Fundamentals and Bestseller Lists

5. Accessing Oracle Database 12c Sql And Pl Sql Fundamentals Free and Paid eBooks
 - Oracle Database 12c Sql And Pl Sql Fundamentals Public Domain eBooks
 - Oracle Database 12c Sql And Pl Sql Fundamentals eBook Subscription Services
 - Oracle Database 12c Sql And Pl Sql Fundamentals Budget-Friendly Options
6. Navigating Oracle Database 12c Sql And Pl Sql Fundamentals eBook Formats
 - ePub, PDF, MOBI, and More
 - Oracle Database 12c Sql And Pl Sql Fundamentals Compatibility with Devices
 - Oracle Database 12c Sql And Pl Sql Fundamentals Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Oracle Database 12c Sql And Pl Sql Fundamentals
 - Highlighting and Note-Taking Oracle Database 12c Sql And Pl Sql Fundamentals
 - Interactive Elements Oracle Database 12c Sql And Pl Sql Fundamentals
8. Staying Engaged with Oracle Database 12c Sql And Pl Sql Fundamentals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Oracle Database 12c Sql And Pl Sql Fundamentals
9. Balancing eBooks and Physical Books Oracle Database 12c Sql And Pl Sql Fundamentals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Oracle Database 12c Sql And Pl Sql Fundamentals
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Oracle Database 12c Sql And Pl Sql Fundamentals
 - Setting Reading Goals Oracle Database 12c Sql And Pl Sql Fundamentals
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Oracle Database 12c Sql And Pl Sql Fundamentals
 - Fact-Checking eBook Content of Oracle Database 12c Sql And Pl Sql Fundamentals
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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