

Sql Coding Best Practices Focus On Performance

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Oracle Embedded Programming and Application Development John Wiley & Sons
The Definitive Solutions-Oriented Guide to IBM® DB2® for z/OS®: Now Fully Updated for Both v9 and v10! The largest database tuning performance gains can often be obtained from tuning application code, and applications that use SQL to retrieve data are the best candidates for tuning. This well-organized, easy-to-understand reference brings together more than 100 SQL-related skills and techniques that any developer can use to build and optimize DB2 applications for consistently superior performance. DB2 tuning expert Tony Andrews ("Tony the Tuner") draws on more than 20 years of DB2-related experience, empowering you to take performance into your own hands, whether you're writing new software or tuning existing systems. Tony shows you exactly how to clear bottlenecks, resolve problems, and improve both speed and reliability. This book fully reflects the latest SQL programming best practices for DB2 V9 and DB2 V10 on z/OS: techniques that are taught in no other book and are rarely covered in general DB2 SQL courses. Drawing on his extensive consulting experience and highly praised training with Themis Inc., Tony also presents practical checklists and an invaluable 15-step methodology for optimizing virtually any DB2 application. Coverage includes Empowering developers on knowing what to do and where to look in resolving performance problems in queries or programs Providing many programming and SQL coding examples Establishing standards and guidelines that lead to high-performance SQL Implementing time-efficient code walkthroughs to ensure that your standards are followed Focusing on the small number of SQL statements that consume the most resources Identifying simple solutions that deliver the most sizable benefits Optimizing performance by rewriting query predicates more efficiently Providing a better understanding of SQL optimization and Runstat statistics Recognizing opportunities to tweak your code more effectively than the Optimizer Optimizing SQL code with COBOL applications Efficiently checking for the existence of data, rows, or tables Using Runstats' newest capabilities to consistently optimize paths to data
Professional Visual Basic 2010 and .NET 4 "O'Reilly Media, Inc."
Performance problems are rarely "problems" per se. They are more often "crises" during which you ' re pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won ' t have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers. Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter ' s domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it ' s performance-related, you ' ll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you're under pressure for results
Real World SQL Server Administration with Perl "O'Reilly Media, Inc."
Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, Learning SQL, Second Edition, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.
PHP 8 Programming Tips, Tricks and Best Practices No Starch Press
Secure your ASP.NET applications before you get hacked! This practical guide includes secure coding techniques with annotated examples and full coverage of built-in ASP.NET Core security tools. In ASP.NET Core Security, you will learn how to: Understand and recognize common web app attacks Implement attack countermeasures Use testing and scanning tools and libraries Activate built-in browser security features from ASP.NET Take advantage of .NET and ASP.NET Core security APIs Manage passwords to minimize damage from a data leak Securely store application secrets ASP.NET Core Security teaches you the skills and countermeasures you need to keep your ASP.NET Core apps secure from the most common web application attacks. With this collection of practical techniques, you will be able to anticipate risks and introduce practices like testing as regular security checkups. You'll be fascinated as the author explores real-world security breaches, including rogue Firefox extensions and Adobe password thefts. The examples present universal security best practices with a sharp focus on the unique needs of ASP.NET Core applications. About the technology Your ASP.NET Core applications are under attack now. Are you ready? Th ere are specific countermeasures you can apply to keep your company out of the headlines. This book demonstrates exactly how to secure ASP.NET Core web applications, including safe browser interactions, recognizing common threats, and deploying the framework's unique security APIs. About the book ASP.NET Core Security is a realistic guide to securing your web applications. It starts on the dark side, exploring case studies of cross-site scripting, SQL injection, and other weapons used by

hackers. As you go, you'll learn how to implement countermeasures, activate browser security features, minimize attack damage, and securely store application secrets. Detailed ASP.NET Core code samples in C# show you how each technique looks in practice. What's inside Understand and recognize common web app attacks Testing tools, helper libraries, and scanning tools Activate built-in browser security features Take advantage of .NET and ASP.NET Core security APIs Manage passwords to minimize damage from a data leak About the reader For experienced ASP.NET Core web developers. About the author Christian Wenz is a web pioneer, consultant, and entrepreneur. Table of Contents PART 1 FIRST STEPS 1 On web application security PART 2 MITIGATING COMMON ATTACKS 2 Cross-site scripting (XSS) 3 Attacking session management 4 Cross-site request forgery 5 Unvalidated data 6 SQL injection (and other injections) PART 3 SECURE DATA STORAGE 7 Storing secrets 8 Handling passwords PART 4 CONFIGURATION 9 HTTP headers 10 Error handling 11 Logging and health checks PART 5 AUTHENTICATION AND AUTHORIZATION 12 Securing web applications with ASP.NET Core Identity 13 Securing APIs and single page applications PART 6 SECURITY AS A PROCESS 14 Secure dependencies 15 Audit tools 16 OWASP Top 10
Expert PL/SQL Practices Simon and Schuster
This IBM® Redbooks® publication is focused on melding industry preferred practices with the unique needs of the IBM i community and providing a holistic view of modernization. This book covers key trends for application structure, user interface, data access, and the database. Modernization is a broad term when applied to applications. It is more than a single event. It is a sequence of actions. But even more, it is a process of rethinking how to approach the creation and maintenance of applications. There are tangible deliveries when it comes to modernization, the most notable being a modern user interface (UI), such as a web browser or being able to access applications from a mobile device. The UI, however, is only the beginning. There are many more aspects to modernization. Using modern tools and methodologies can significantly improve productivity and reduce long-term cost while positioning applications for the next decade. It is time to put the past away. Tools and methodologies have undergone significant transformation, improving functionality, usability, and productivity. This is true of the plethora of IBM tools and the wealth of tools available from many Independent Solution Providers (ISVs). This publication is the result of work that was done by IBM, industry experts, and by representatives from many of the ISV Tool Providers. Some of their tools are referenced in the book. In addition to reviewing technologies based on context, there is an explanation of why modernization is important and a description of the business benefits of investing in modernization. This critical information is key for line-of-business executives who want to understand the benefits of a modernization project. This book is appropriate for CIOs, architects, developers, and business leaders. Related information Making the Case for Modernization, IBM Systems Magazine
Business Intelligence with SQL Server Reporting Services John Wiley & Sons
Learn the many design decisions that must be made before starting to build a large Oracle Application Express (APEX) application for the cloud or enterprise. One of APEX's key strengths is the fact that it is a Rapid Application Development (RAD) tool. This is also a major weakness when it tempts developers to start coding too soon. Small applications that consist of tens of pages can be coded without a lot of design work because they can be re-factored quickly when design flaws are discovered. Design flaws in large cloud and enterprise applications that consist of hundreds or thousands of pages are not so easy to re-factor due to the time needed to redevelop and retest the application, not to mention the risk of breaking functionality in subtle ways. Designing a large application before coding starts is a profitable exercise because a thoughtful design goes a long way in mitigating cost overruns and schedule slippage while simultaneously enhancing quality. This book takes into account perspectives from other non-developer stakeholders such as maintenance developers, business analysts, testers, technical writers, end users, and business owners. Overlooking these perspectives is one of the chief causes of expensive rework late in the development cycle. Oracle Application Express by Design illustrates APEX design principles by using architecture diagrams, screen shots, and explicit code snippets to guide developers through the many design choices and complex interrelationship issues that must be evaluated before embarking on large APEX projects. This book: Guides you through important, up-front APEX design decisions Helps you to optimize your design by keeping all stakeholders in mind Explicit code examples show how design impacts cost, schedule, and quality What You Will Learn Pick and choose from the list of designs before coding begins Bake optimal quality into the underlying fabric of an APEX application Think and design from outside the developer's narrow perspective Optimize

APEX application designs to satisfy multiple stakeholder groups Evaluate design options through hands-on, explicit code examples Define and measure success for large cloud and enterprise APEX applications Who This Book Is For APEX developers and development teams

Java Database Best Practices Apress

Design and write simple and efficient T-SQL code in SQL Server 2019 and beyond. Writing T-SQL that pulls back correct results can be challenging. This book provides the help you need in writing T-SQL that performs fast and is easy to maintain. You also will learn how to implement version control, testing, and deployment strategies. Hands-on examples show modern T-SQL practices and provide straightforward explanations. Attention is given to selecting the right data types and objects when designing T-SQL solutions. Author Elizabeth Noble teaches you how to improve your T-SQL performance through good design practices that benefit programmers and ultimately the users of the applications. You will know the common pitfalls of writing T-SQL and how to avoid those pitfalls going forward. What You Will LearnChoose correct data types and database objects when designing T-SQL Write T-SQL that searches data efficiently and uses hardware effectively Implement source control and testing methods to streamline the deployment process Design T-SQL that can be enhanced or modified with less effort Plan for long-term data management and storage Who This Book Is For Database developers who want to improve the efficiency of their applications, and developers who want to solve complex query and data problems more easily by writing T-SQL that performs well, brings back correct results, and is easy for other developers to understand and maintain

Building Solutions with the Microsoft .NET Compact Framework Daniel Geron

Focusing on tried and true best practice techniques in cross-technology based Oracle embedded programming, this book provides authoritative guidance for improving your code compilation and execution. Geared towards IT professionals developing Oracle-based Web-enabled applications in PL/SQL, Java, C, C++, .NET, Perl, and PHP, it covers application development from concepts to customization, following a pragmatic approach to design, coding, testing, deployment, and customization—explaining how to maximize embedded programming practices. Oracle Embedded Programming and Application Development explains application development frameworks using 3GL and 4GL high-level language code as embedded code segments across .NET, Java, and Open Source technologies, in conjunction with SQL and/or PL/SQL and the Oracle RDBMS through version 11gR2. It also: Features pluggable code using parameterized constructs to promote code reuse Explains when to use a particular embedded language as a best fit for specific applications Highlights design considerations that reduce the probability of errors, enable quick resolution, and boost performance in terms of enabling a Fast-Actionable-Synchronized-Tested (FAST) solution implementation Provides best practice techniques that can enhance any application development code-design methodology for a better, easier, faster, cheaper, and pervasive solution that in turn helps achieve a Better Business Benefit (B-B-B) This practical guide details techniques for constructing architecture and code design methodologies for live application development projects that can be generalized and standardized as application development and code design frameworks. Cover to cover, the text provides an understanding of how the designed, developed, and deployed solutions conform to emerging and next-generation trends. It also discusses the conformance and usage of Web 2.0-based RIA functionality and regulatory compliance practices involving auditing and security. Praise for: "Taking an Oracle-centric approach, Lakshman skillfully guides you through the maze of various popular programming languages and environments including .NET, C/C++, Perl, PHP, Java, and even SQL and PL/SQL – not only showing you how they interact with Oracle but also which language is the best fit for a given situation." –John Kanagaraaj, Executive Editor, IOUG SELECT Journal

ASP.NET Core Security Apress

This book contains 19 peer-reviewed papers on the subject of BIM in the construction industry. These articles cover recent advances in the development of BIM technologies and applications in the field of architecture, engineering, and construction (AEC) industry.

SQL Apress

What every software professional should know about security. Designing Secure Software consolidates Loren Kohnfelder’s more than twenty years of experience into a concise, elegant guide to improving the security of technology products. Written for a wide range of software professionals, it emphasizes building security into software design early and involving the entire team in the process. The book begins with a discussion of core concepts like trust, threats, mitigation, secure design patterns, and cryptography. The second part, perhaps this book’s most unique and important contribution to the field, covers the process of designing and reviewing a software design with security considerations in mind. The final section details the most common coding flaws that create vulnerabilities, making copious use of code snippets written in C and Python to illustrate implementation vulnerabilities. You’ll learn how to: • Identify important assets, the attack surface, and the trust boundaries in a system • Evaluate the effectiveness of various threat mitigation candidates • Work with well-known secure coding patterns and libraries • Understand and prevent vulnerabilities like XSS and CSRF, memory flaws, and more • Use security testing to proactively identify vulnerabilities introduced into code •

Review a software design for security flaws effectively and without judgment Kohnfelder’s career, spanning decades at Microsoft and Google, introduced numerous software security initiatives, including the co-creation of the STRIDE threat modeling framework used widely today. This book is a modern, pragmatic consolidation of his best practices, insights, and ideas about the future of software.

Designing Secure Software "O'Reilly Media, Inc."

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.

Sql Apress

Information professionals have been paying more attention and putting a greater focus on privacy over cybersecurity. However, the number of both cybersecurity and privacy breach incidents are soaring, which indicates that cybersecurity risks are high and growing. Utilizing cybersecurity awareness training in organizations has been an effective tool to promote a cybersecurity-conscious culture, making individuals more cybersecurity-conscious as well. However, it is unknown if employees’ security behavior at work can be extended to their security behavior at home and personal life. On the one hand, information professionals need to inherit their role as data and information gatekeepers to safeguard data and information assets. On the other hand, information professionals can aid in enabling effective information access and dissemination of cybersecurity knowledge to make users conscious about the cybersecurity and privacy risks that are often hidden in the cyber universe. Cybersecurity for Information Professionals: Concepts and Applications introduces fundamental concepts in cybersecurity and addresses some of the challenges faced by information professionals, librarians, archivists, record managers, students, and professionals in related disciplines. This book is written especially for educators preparing courses in information security, cybersecurity, and the integration of privacy and cybersecurity. The chapters contained in this book present multiple and diverse perspectives from professionals in the field of cybersecurity. They cover such topics as: Information governance and cybersecurity User privacy and security online and the role of information professionals Cybersecurity and social media Healthcare regulations, threats, and their impact on cybersecurity A socio-technical perspective on mobile cybersecurity Cybersecurity in the software development life cycle Data security and privacy Above all, the book addresses the ongoing challenges of cybersecurity. In particular, it explains how information professionals can contribute to long-term workforce development by designing and leading cybersecurity awareness campaigns or cybersecurity hygiene programs to change people’s security

behavior.

Oracle Database Application Security Packt Publishing Ltd

Pro SQL Server 2012 Practices is an anthology of high-end wisdom from a group of accomplished database administrators who are quietly but relentlessly pushing the performance and feature envelope of Microsoft SQL Server 2012. With an emphasis upon performance-but also branching into release management, auditing, and other issues-the book helps you deliver the most value for your company's investment in Microsoft's flagship database system. Goes beyond the manual to cover good techniques and best practices Delivers knowledge usually gained only by hard experience Focuses upon performance, scalability, reliability Helps achieve the predictability needed to be in control at all times

Oracle PL/SQL Best Practices O'Reilly Media

In this book, Steven Feuerstein, widely recognized as one of the world's experts on the Oracle PL/SQL language, distills his many years of programming, writing, and teaching about PL/SQL into a set of PL/SQL language "best practices"--rules for writing code that is readable, maintainable, and efficient. Too often, developers focus on simply writing programs that run without errors--and ignore the impact of poorly written code upon both system performance and their ability (and their colleagues' ability) to maintain that code over time.Oracle PL/SQL Best Practices is a concise, easy-to-use reference to Feuerstein's recommendations for excellent PL/SQL coding. It answers the kinds of questions PL/SQL developers most frequently ask about their code: How should I format my code? What naming conventions, if any, should I use? How can I write my packages so they can be more easily maintained? What is the most efficient way to query information from the database? How can I get all the developers on my team to handle errors the same way? The book contains 120 best practices, divided by topic area. It's full of advice on the program development process, coding style, writing SQL in PL/SQL, data structures, control structures, exception handling, program and package construction, and built-in packages. It also contains a handy, pull-out quick reference card. As a helpful supplement to the text, code examples demonstrating each of the best practices are available on the O'Reilly web site.Oracle PL/SQL Best Practices is intended as a companion to O'Reilly's larger Oracle PL/SQL books. It's a compact, readable reference that you'll turn to again and again--a book that no serious developer can afford to be without.

BIM in the Construction Industry John Wiley & Sons

Oracle PL/SQL Best Practices"O'Reilly Media, Inc."

The Definitive Guide to Building Code Quality Apress

Implement, maintain, and repair SQL Server 2012databases As the most significant update since 2008, Microsoft SQL Server2012 boasts updates and new features that are critical tounderstand. Whether you manage and administer SQL Server 2012 orare planning to get your MCSA: SQL Server 2012 certification, thisbook is the perfect supplement to your learning and preparation.From understanding SQL Server's roles to implementing businessintelligence and reporting, this practical book explores tasks andscenarios that a working SQL Server DBA faces regularly and showsyou step by step how to handle them. Includes practice exams and coverage of exam objectives forthose seeking MSCA: SQL Server 2012 certification Explores the skills you'll need on the job as a SQL Server 2012DBA Discusses designing and implementing database solutions Walks you through administrating, maintaining, and securing SQLServer 2012 Addresses implementing high availability and datadistribution Includes bonus videos where the author walks you through someof the more difficult tasks expected of a DBA Featuring hands-on exercises and real-world scenarios, thisresource guides you through the essentials of implementing,maintaining, and repairing SQL Server 2012 databases.

Oracle Application Express by Design CRC Press

Explores the foundations of SQL and Transact-SQL programming to teach readers how to develop coding techniques and discover solutions to programming problems, then covers practices, design considerations, and advanced topics.

Oracle PL/SQL Programming CRC Press

Focus on the security aspects of designing, building, and maintaining a secure Oracle Database application. Starting with data encryption, you will learn to work with transparent data, back-up, and networks. You will then go through the key principles of audits, where you will get to know more about identity preservation, policies and fine-grained audits. Moving on to virtual private databases, you'll set up and configure a VPD to work in concert with other security features in Oracle, followed by tips on managing configuration drift, profiles, and default users. Shifting focus to coding, you will take a look at secure coding standards, multi-schema database models, code-based access control, and SQL injection. Finally, you'll cover single sign-on (SSO), and will be introduced to Oracle Internet Directory (OID), Oracle Access Manager (OAM), and Oracle Identity Management (OIM) by installing and configuring them to meet your needs. Oracle databases hold the majority of the world's relational data, and are attractive targets for attackers seeking high-value targets for data theft. Compromise of a single Oracle Database can result in tens of millions of breached records costing millions in breach-mitigation activity. This book gets you ready to avoid that nightmare scenario. What You Will LearnWork with Oracle Internet Directory using the command-line and the console

Integrate Oracle Access Manager with different applications Work with the Oracle Identity Manager console and connectors, while creating your own custom one Troubleshooting issues with OID, OAM, and OIDDive deep into file system and network security concepts Who This Book Is For Oracle DBAs and developers. Readers will need a basic understanding of Oracle RDBMS and Oracle Application Server to take complete advantage of this book.

Oracle PL/SQL Best Practices "O'Reilly Media, Inc."

The 2008 version of Visual Basic is tremendously enhanced and introduces dramatic new concepts, techniques, and features to this popular object-oriented language. Written by an elite author team, this comprehensive resource provides a clear and concise approach to using VB 2008 in the ever-expanding .NET world. This book focuses on using the latest and most powerful tools from the Microsoft arsenal within your Visual Basic solutions. You'll examine everything from the .NET Framework to the best practices for deploying .NET applications to database access and integrating with other technologies.

A Complete Guide to Portals and User Experience Platforms John Wiley & Sons

Learn to use Oracle 9i to build dynamic, data-driven Web sites. Get step-by-step details on creating and deploying Web applications using PL/SQL, HTML, Java, XML, WML, Peri and PHP. This book covers everything users need to know to master Web application development in an Oracle environment - using PL/SQL.