

DB2 SQL Tuning Tips for z/OS Developers

Tony Andrews



Db2 Sql Tuning Tips For Z Or Os Developers Ibm Press

John Arthur Ricketts



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DB2 SQL Tuning Tips for z/OS Developers Tony Andrews, 2012-10-15 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 *DB2 Developer's Guide* Craig S. Mullins, 2012-05-01 DB2 Developer s Guide is the field s 1 go to source for on the job information on programming and administering DB2 on IBM z OS mainframes Now three time IBM Information Champion Craig S Mullins has thoroughly updated this classic for DB2 v9 and v10 Mullins fully covers new DB2 innovations including temporal database support hashing universal tablespaces pureXML performance security and governance improvements new data types and much more Using current versions of DB2 for z OS readers will learn how to Build better databases and applications for CICS IMS batch CAF and RRSF Write proficient code optimized DB2 SQL Implement efficient dynamic and static SQL applications Use binding and rebinding to optimize applications Efficiently create administer and manage DB2 databases and applications Design build and populate efficient DB2 database structures for online batch and data warehousing Improve the performance of DB2 subsystems databases utilities programs and SQL stat DB2 Developer s Guide Sixth Edition builds on the unique approach that has made previous editions so valuable It combines Condensed easy to read coverage of all essential topics information otherwise

scattered through dozens of documents Detailed discussions of crucial details within each topic Expert field tested implementation advice Sensible examples DB2 Essentials Raul F. Chong, Clara Liu, 2013-10-26 The Easy Visual Introduction to IBM DB2 Version 10.5 for Linux UNIX and Windows Foreword by Judy Huber Vice President Distributed Data Servers and Data Warehousing Director IBM Canada Laboratory This book covers everything you need to get productive with the latest version of IBM DB2 and apply it to today's business challenges It discusses key features introduced in DB2 Versions 10.5, 10.1 and 9.7 including improvements in manageability integration security Big Data support BLU Acceleration and cloud computing DB2 Essentials illuminates key concepts with examples drawn from the authors extensive experience with DB2 in enterprise environments Raul F Chong and Clara Liu explain how DB2 has evolved what's new and how to choose the right products editions and tools Next they walk through installation configuration security data access remote connectivity and day to day administration Each chapter starts with an illustrative overview to introduce its key concepts using a big picture approach Clearly explained figures are used extensively and techniques are presented with intuitive screenshots diagrams charts and tables Case studies illustrate how theory is applied in real life environments and hundreds of review questions help you prepare for IBM's newest DB2 certification exams Coverage includes Understanding the role of DB2 in Big Data Preparing for and executing a smooth installation or upgrade Understanding the DB2 environment instances and databases Configuring client and server connectivity Working with database objects Getting started with BLU Acceleration Implementing security authentication and authorization Understanding concurrency and locking Maintaining backing up and recovering data Using basic SQL in DB2 environments Diagnosing and solving DB2 problems This book is for anyone who plans to work with DB2 including DBAs system administrators developers and consultants It will be a great resource whether you're upgrading from an older version of DB2 migrating from a competitive database or learning your first database platform *Service-oriented Architecture Compass* Norbert Bieberstein, 2006 Providing a foundation for enterprise architects on the principles of service oriented architecture this text offers guidance on how to begin transitioning an IT infrastructure toward the SOA model an operation tightly integrated into business processes and operations *IBM Rational ClearCase, Ant, and CruiseControl* Kevin A. Lee, 2006 No previous build experience is necessary Lee thoroughly explains everything from configuring SCM environments and defining build scripts through to release packaging and deployment He offers solutions and techniques for both Base ClearCase and Unified Change Management UCM IBM Rational's best practice Software Configuration Management usage model Key techniques are presented in real world context through a full fledged three tier application case study Book jacket Jacket Visual Modeling with IBM Rational Software Architect and UML Terry Quatrani, Jim Palistrant, 2006 Terry's style is always direct approachable and pragmatic Abstraction is hard and visualizing abstractions is as well but here she'll guide you in doing both using Rational Software Architect From the Foreword by Grady Booch IBM Fellow Master UML 2.0 Visual Modeling with IBM Rational Software Architect Using IBM

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Project Management with the IBM Rational Unified Process R. Dennis Gibbs, 2006-07-27 Master win win techniques for managing outsourced and offshore projects from procurement and risk mitigation to maintenance Use RUP to implement best practice project management throughout the software development lifecycle Overcome key management challenges from changing requirements to managing user expectations The Hands On Start to Finish Guide to Managing Software Projects with the IBM Rational Unified Process This is the definitive guide to managing software development projects with the IBM Rational Unified Process RUP Drawing on his extensive experience managing projects with the RUP R. Dennis Gibbs covers the entire development lifecycle from planning and requirements to post mortems and system maintenance Gibbs offers especially valuable insights into using the RUP to manage outsourced projects and any project relying on distributed development teams outsourced insourced or both This from the trenches guidebook is invaluable for anyone interested in best practices for managing software development project managers team leaders procurement and contracting specialists quality assurance and software process professionals consultants and developers If you're already using the RUP Gibbs will help you more effectively use it Whatever your role or the RUP experience you'll learn ways to Simplify and streamline the management of any large scale or outsourced project Overcome the challenges of using the RUP in software project management Optimize software procurement and supplier relationships from Request for Proposals RFPs and contracts to delivery Staff high performance project teams and project management

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DB2 SQL PL Zamil Janmohamed, Clara Liu, Drew Bradstock, Raul F. Chong, Michael X. Gao, Fraser McArthur, Paul Yip, 2005 Straight from IBM the ultimate DB2 PL SQL resource and the FIRST and ONLY to cover DB2 UDB 8 2

Relational Database Design and Implementation Jan L. Harrington, 2016-04-15 Relational Database Design and Implementation Clearly Explained Fourth Edition provides the conceptual and practical information necessary to develop a database design and management scheme that ensures data accuracy and user satisfaction while optimizing performance Database systems underlie the large majority of business information systems Most of those in use today are based on the relational data model a way of representing data and data relationships using only two dimensional tables This book covers relational database theory as well as providing a solid introduction to SQL the international standard for the relational database data manipulation language The book begins by reviewing basic concepts of databases and database design then turns to creating populating and retrieving data using SQL Topics such as the relational data model normalization data entities and Codd s Rules and why they are important are covered clearly and concisely In addition the book looks at the impact of big data on relational databases and the option of using NoSQL databases for that purpose Features updated and expanded coverage of SQL and new material on big data cloud computing and object relational databases Presents design approaches that ensure data accuracy and consistency and help boost performance Includes three case studies each illustrating a different database design challenge Reviews the basic concepts of databases and database design then turns to creating populating and retrieving data using SQL

DB2 Universal Database for OS/390 V7.1 Application Certification Guide Susan Lawson, 2002 IBM s definitive DB2 UDB V7 1 application development reference and exam study guide for the OS 390 and z OS platforms An official IBM self study guide for the DB2 UDB V7 1 Family Application Development Exam 514 Expert DB2 programming tips techniques and guidelines from application development experts Covers data structures SQL stored procedures programming language environments debugging tuning and more CD ROM contains complete DB2 application development sample exam The definitive authoritative guide to DB2 OS 390 application development certification Covers data structures SQL stored procedures programming language environments debugging tuning and much more Includes a full section on object relational programming and other advanced techniques Sample test questions help you prepare for the IBM DB2 UDB V7 1 Family Application Development Exam 514 About the CD The CD ROM included with this book contains a complete DB2 UDB V7 1 Family Application Development Exam 514 sample exam IBM DB2 UDB Version 7 1 for OS 390 and z OS delivers unparalleled performance scalability and reliability in today s

enterprise business environments Now there s a complete authoritative guide to developing applications with DB2 UDB V7 1 in both OS 390 and z OS environments and preparing for the IBM DB2 UDB V7 1 Family Application Development Exam 514 This comprehensive day to day guide to DB2 UDB application development is also the only book that delivers the depth of knowledge professionals need to pass IBM s challenging application development exam for the OS 390 and z OS platforms IBM Gold Consultant Susan Lawson presents hundreds of useful tips practical techniques and expert guidelines for every facet of DB2 UDB application development and every stage of the development process for both OS 390 and z OS platforms Coverage includes Foundations for effective DB2 development including an overview of the DB2 UDB product family and DB2 for OS 390 data structures SQL basic concepts and coding techniques through advanced OLAP features star schemas and star joins Stored procedures including the SQL procedure language and IBM s Stored Procedure Builder Best practices for application testing debugging and performance tuning The full range of DB2 development tools including ODBC CLI Java tm COBOL C C REXX CAF CICS and RRSF Object relational programming including user defined functions user defined data types and triggers In depth coverage of locking and concurrency Whether you re developing for DB2 UDB V7 1 in an OS 390 or z OS environment managing DB2 UDB V7 1 application development preparing for DB2 UDB V7 1 Family Application Development or all three DB2 UDB for OS 390 Version 7 1 Application Certification Guide will be your single most valuable resource IBM DB2 Series RFID Sourcebook Sandip Lahiri,2006 RFID is now a need to know technology this book is the comprehensive resource for learning adapting and customizing RFID technology A Practical Guide to Trusted Computing David Challener,2008 Designed to provide developers with a practical understanding of how to use the Trusted Platform Module TPM Through multiple examples it provides the reader with an understanding of what problems the TPM can be used to solve and the motivation behind the design decisions made in the specifications Reaching the Goal John Arthur Ricketts,2008 There is no doubt that this is a truly original and groundbreaking work in applying the Theory of Constraints I run a services company and learned some things about the services business Anyone involved in large services companies needs to look at what John is proposing I will definitely quote this material frequently ChadSmith Managing Partner Constraints Management Group The information presented in this book is badly needed by service providers who struggle to balance supply and demand with their resources Carol A Ptak CFPIM CIRM The techniques that John brings to light in this book are the bridge from the vision of Dr Goldratt s work to the successful implementation in a range of services firms From the Foreword by Erik Bush Vice President IBM Global Services Discover the powerful Theory of Constraints TOC and use it to drive continuous performance improvement in any services organization Identify the hidden constraints that are limiting your organization and manage or eliminate them Use TOC to improve the way you manage resources projects processes finance marketing and sales Determine whether your organization faces an internal or external constraint manage that constraint accordingly and anticipate where the next constraint will arise Release latent capacity shrouded by common

business practices Simplify processes that have grown unmanageably complex Optimize your enterprise as a whole rather than suboptimizing individual business units Get buy in to fundamental changes in strategy tactics and operations Managing services is extremely challenging and traditional industrial management techniques are no longer adequate In Reaching the Goal Dr John Arthur Ricketts presents a breakthrough management approach that embraces what makes services different their diversity complexity and unique distribution methods Ricketts draws on Eli Goldratt s Theory of Constraints TOC one of this generation s most successful management methodologies thoroughly adapting it to the needs of today s professional scientific and technical services businesses He reveals how to identify the surprising constraints that limit your organization s performance execute more effectively within those constraints and then loosen or even eliminate them This book s relentlessly practical techniques reflect several years of advanced IBM research and consulting with enterprise clients Step by step Ricketts shows how to apply them throughout your most crucial business functions from project management to finance process improvement to sales and marketing Whatever your role in improving service delivery processes or profitability this book gives you the tools to reach your goals and go beyond them Identify manage and overcome your key constraints Five steps to uncovering and addressing the real obstacles to improved performance Optimize core business functions one step at a time Improve the way you manage resources projects processes finance and marketing Implement TOC rapidly and effectively Get buy in deploy infrastructure and provide the right IT support

Database Systems Elvis Foster, Shripad Godbole, 2022-09-26 This book provides a concise but comprehensive guide to the disciplines of database design construction implementation and management Based on the authors professional experience in the software engineering and IT industries before making a career switch to academia the text stresses sound database design as a necessary precursor to successful development and administration of database systems The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure and that proper database design and management is integral to the success of a software system Additionally students are led to appreciate the huge value of a properly designed database to the success of a business enterprise The text was written for three target audiences It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems graduate students who are pursuing an introductory course to database and practicing software engineers and information technology IT professionals who need a quick reference on database design Database Systems A Pragmatic Approach 3rd Edition discusses concepts principles design implementation and management issues related to database systems Each chapter is organized into brief reader friendly conversational sections with itemization of salient points to be remembered This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested proven and refined over several years Features of the third edition include Short paragraphs that express

the salient aspects of each subject Bullet points itemizing important points for easy memorization Fully revised and updated diagrams and figures to illustrate concepts to enhance the student s understanding Real world examples Original methodologies applicable to database design Step by step student friendly guidelines for solving generic database systems problems Opening chapter overviews and concluding chapter summaries Discussion of DBMS alternatives such as the Entity Attributes Value model NoSQL databases database supporting frameworks and other burgeoning database technologies A chapter with sample assignment questions and case studies This textbook may be used as a one semester or two semester course in database systems augmented by a DBMS preferably Oracle After its usage students will come away with a firm grasp of the design development implementation and management of a database system *The British National Bibliography* Arthur James Wells,2005 **Computerworld** ,1995-11-20 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Computerworld** ,1990-02-12 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network DB2 Developer's Guide Craig Mullins,2012 DB2 Developer s Guide is the field s 1 go to source for on the job information on programming and administering DB2 on IBM z OS mainframes Now three time IBM Information Champion Craig S Mullins has thoroughly updated this classic for DB2 v9 and v10 Mullins fully covers new DB2 innovations including temporal database support hashing universal tablespaces pureXML performance security and governance improvements new data types and much more Using current versions of DB2 for z OS readers will learn how to Build better databases and applications for CICS IMS batch CAF and RRSAF Write proficient code optimized DB2 SQL Implement efficient dynamic and static SQL applications Use binding and rebinding to optimize applications Efficiently create administer and manage DB2 databases and applications Design build and populate efficient DB2 database structures for online batch and data warehousing Improve the performance of DB2 subsystems databases utilities programs and SQL stat DB2 Developer s Guide Sixth Edition builds on the unique approach that has made previous editions so valuable It combines Condensed easy to read coverage of all essential topics information otherwise scattered through dozens of documents Detailed discussions of crucial details within each topic Expert field tested implementation advice Sensible examples **American Book Publishing Record** ,2005 Computerworld ,1993-05-24 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

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