Juergen Glag

Efficient Software Development with DB2 for OS/390

Organizational and Technical Measures for Performance Optimization

2nd Edition

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Efficient Software Development

Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization

Ute Baumbach,Patric Becker,Uwe Denneler,Eberhard Hechler,Wolfgang Hengstler,Steffen Knoll,Frank Neumann,Guenter Georg Schoellmann,Khadija Souissi,Timm Zimmermann,IBM Redbooks

Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization:

   Efficient Software Development with DB2 for OS/390 Jürgen Glag,1998   Efficient Software Development with DB2 for OS/390 Jürgen Glag,1999-10-28 J rgen Glag s book points out how to ensure professional and efficient database software development in DB2 mainframe and client server environments The asset of this book is that technical aspects performance tuning and organizational measures economical performance are covered Consequently this book is suitable particularly for organizations that want to use DB2 in an economical and safe way Work in various large production systems with DB2 revealed that most performance problems arise either from a certain critical transaction load onwards or for particularly large tables Many measures can be taken in order to identify and to solve these problems during software development and not as is often the case only in production environment Beyond explaining the causes for performance problems this book also describes and explains well proven measures to avoid such problems The book particularly addresses those persons who are responsible for data processing and quality assurance project leaders and project managers in the data processing area and software and application developers Das Buch von Glag zeigt wie professionelle und effiziente DB Anwendungsentwicklung im DB2 Gro rechnerbereich und Client Server Umfeld sichergestellt werden k nnen Der Vorzug des Buches ist es da sowohl die technischen Aspekte Performance Tuning als auch organisatorische Ma nahmen zur Optimierung wirtschaftliche Performance dargestellt werden Damit eignet sich das Buch insbesondere f r den Einsatz in Unternehmen die DB2 kosteng nstig und sicher einsetzen wollen Bei der Arbeit in mehreren gro en produktiven DB2 Umgebungen hat sich gezeigt da die meisten Performance Probleme entweder erst ab einer bestimmten kritischen Transaktionslast oder bei besonders umfangreichen Tabellengr en auftreten Um diese Probleme nicht erst in der Produktionsumgebung sondern bereits w hrend der Softwareentwicklung erkennen und l sen zu k nnen sind eine Reihe von Ma nahmen   **SAP® R/3® Interfacing using BAPIs** Gerd Moser,2013-06-29 Das Buch f hrt in verst ndlicher Weise in die praktische Nutzung der Business Application Programming Interfaces BAPIs ein und kl rt zun chst die wesentlichen Begriffe die hinter dieser neuen SAP Technologie stehen Das Buch zeigt eine empfehlenswerte Vorgehensweise f r die Einf hrung und Realisierung der System Kopplung zwischen R 3 am Beispiel von Lotus Notes An Hand eines in nahezu jedem Unternehmen relevanten Ablaufs wird examplarisch die Umsetzung eines Gesch ftsprozesses der Kundenauftragsabwicklung gezeigt Das neue Wissen wird mit Hilfe der beigelegten CD die auch ScreenCams beinhaltet plastisch und leicht verst ndlich vermittelt Das Buch verfolgt im wesentlichen zwei Ziele Es zeigt welchen Nutzen die BAPIs bieten um externe Systeme an ein R 3 System anzubinden und wie hoch der Realisierungsaufwand Ist Es versetzt den Leser in die Lage die Funktionsweise von R 3 und die angebotenen BAPIs und Lotus Notes nicht nur schnell zu verstehen sondern auch Gesch ftsprozesse schnell und zuverl ssig in die Praxis umzusetzen   **Efficient Software Development with DB2 for OS/390** Jürgen Glag,1998 Jurgen Glag s book

points out how to ensure professional and efficient database software development in DB2 mainframe and client server environments The asset of this book is that technical aspects performance tuning and organizational measures economical performance are covered Consequently this book is suitable particularly for organizations that want to use DB2 in an economical and safe way Work in various large production systems with DB2 revealed that most performance problems arise either from a certain critical transaction load onwards or for particularly large tables Many measures can be taken in order to identify and to solve these problems during software development and not as is often the case only in production environment Beyond explaining the causes for performance problems this book also describes and explains well proven measures to avoid such problems The book particularly addresses those persons who are responsible for data processing and quality assurance project leaders and project managers in the data processing area and software and application developers In order to get the best out of DB2 in terms of features that are relevant for application development certain selected new topics in DDL and DML that came with Version 5 are covered by this edition **Management der Software-Entwicklung** Carl Steinweg,2013-04-17 Der Klassiker in 5 Auflage Bew hrtes Wissen f r die SW Entwicklung Durchf hrung und Leitung von IT Projekten Der besondere Vorteil ist die Darstellung anhand eines vollst ndigen und durchg ngigen Modells beispielhaft f r alle SW Projekte Der praxiserprobte Prozess beginnt mit der Ermittlung von Verbesserungspotentialen f r Gesch ftsprozesse und erkl rt die einzelnen Schritte auf dem Weg zu einer modernen IT L sung die diese Prozesse optimal unterst tzt Der prozessorientierten Anforderungsanalyse folgt ein objektorientiertes Design auf Basis von Komponenten Eine an Entscheidungspunkten orientierte Phaseneinteilung unterst tzt ebenso die effektive Projektgestaltung wie die detailliert dargestellten Support und F hrungsprozesse Mit Online Service f r den Leser und Nutzer *Projektkompass Softwareentwicklung* Carl Steinweg,2013-07-02 Entwickler Projektleiter und IT Verantwortliche finden in diesem Buch einen vollst ndigen Leitfaden f r die erfolgreiche Durchf hrung von IT Projekten Der praxiserprobte Proze beginnt mit der Ermittlung von Verbesserungspotentialen f r Gesch ftsprozesse und erkl rt die einzelnen Schritte auf dem Weg zu einer modernen IT L sung die diese Prozesse optimal unterst tzt Der proze orientierten Anforderungsanalyse folgt ein objektorientiertes Design auf Basis von Komponenten Bei der Umsetzung werden sowohl Aspekte der Eigenentwicklung von Individualsoftware als auch der Integration von Standardsoftware ber cksichtigt Eine an Entscheidungspunkten orientierte Phaseneinteilung unterst tzt ebenso die effektive Projektgestaltung wie die dargestellten Supportprozesse f r Projektmanagement und Qualit tssicherung **Verzeichnis lieferbarer Bücher** ,1988 **Books in Print Supplement** ,2002 *German books in print* ,1997 **Data Sources** ,2000 **DB2 Universal Database for OS/390** Susan Graziano Sloan,Ann Kilty Hernandez,2001 This book will be written for people who are new to the DB2 product The readers users will be migrating from desktop systems or coming from other popular database systems such as Oracle Many will be also coming from other operating systems such as Windows and UNIX **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 Universal Database for OS/390 Version 7.1 Certification Guide** Richard Yevich,Susan Lawson,2001 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE *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

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laboratory and provide some estimates Keep in mind that your results are likely to vary as the conditions and work will differ In this book we assume that you are somewhat familiar with DB2 10 for z OS See DB2 10 for z OS Technical Overview SG24 7892 00 for an introduction to the new functions   **DB2 10 for Z/OS Performance Topics** Paolo Bruni,2011 DB2 10 can reduce the total DB2 CPU demand from 5 20% when you take advantage of all the enhancements Many CPU reductions are built in directly to DB2 requiring no application changes Some enhancements are implemented through normal DB2 activities through rebinding restructuring database definitions improving applications and utility processing The CPU demand reduction features have the potential to provide significant total cost of ownership savings based on the application mix and transaction types Improvements in optimization reduce costs by processing SQL automatically with more efficient data access paths Improvements through a range list index scan access method list prefetch for IN list more parallelism for select and index insert processing better work file usage better record identifier RID pool overflow management improved sequential detection faster log I O access path certainty evaluation for static SQL and improved distributed data facility DDF transaction flow all provide more efficiency without changes to applications These enhancements can reduce total CPU enterprise costs because of improved efficiency in the DB2 10 for z OS DB2 10 includes numerous performance enhancements for Large Objects LOBs that save disk space for small LOBs and that provide dramatically better performance for LOB retrieval inserts load and import export using DB2 utilities DB210 can also more effectively REORG partitions that contain LOBs This IBM Redbooks publication provides an overview of the performance impact of DB2 10 for z OS discussing the overall performance and possible impacts when moving from version to version We include performance measurements that were made in the laboratory and provide some estimates Keep in mind that your results are likely to vary as the conditions and work will differ In this book we assume that you are somewhat familiar with DB2 10 for z OS See DB2 10 for z OS Technical Overview SG24 7892 00 for an introduction to the new functions   **DB2 9 for z/OS Performance Topics** Paolo Bruni,Kevin Harrison,Garth Oldham,Leif Pedersen,Giuseppe Tino,IBM Redbooks,2012-09-28 DB2 9 for z OS is an exciting new version with many improvements in performance and little regression DB2 V9 improves availability and security as well as adds greatly to SQL and XML functions Optimization improvements include more SQL functions to optimize improved statistics for the optimizer better optimization techniques and a new approach to providing information for tuning V8 SQL procedures were not eligible to run on the IBM System z9 Integrated Information Processor zIIP but changing to use the native SQL procedures on DB2 V9 makes the work eligible for zIIP processing The performance of varying length data can improve substantially if there are large numbers of varying length columns Several improvements in disk access can reduce the time for sequential disk access and improve data rates The key DB2 9 for z OS performance improvements include reduced CPU time in many utilities deep synergy with IBM System z hardware and z OS software improved performance and scalability for inserts and LOBs improved SQL optimization zIIP processing for remote native SQL procedures index

compression reduced CPU time for data with varying lengths and better sequential access Virtual storage use below the 2 GB bar is also improved This IBM Redbooks publication provides an overview of the performance impact of DB2 9 for z OS especially performance scalability for transactions CPU and elapsed time for queries and utilities We discuss the overall performance and possible impacts when moving from version to version We include performance measurements that were made in the laboratory and provide some estimates Keep in mind that your results are likely to vary as the conditions and work will differ In this book we assume that you are familiar with DB2 V9 See DB2 9 for z OS Technical Overview SG24 7330 for an introduction to the new functions **DB2 for Z/OS DM and OS/390 Version 7** ,2002 **DB2 Performance Tuning - Optimizing for OS 390** Greyland Royce,1999-03-01 **Accelerating Data Transformation with IBM DB2 Analytics Accelerator for z/OS** Ute Baumbach,Patric Becker,Uwe Denneler,Eberhard Hechler,Wolfgang Hengstler,Steffen Knoll,Frank Neumann,Guenter Georg Schoellmann,Khadija Souissi,Timm Zimmermann,IBM Redbooks,2015-12-11 Transforming data from operational data models to purpose oriented data structures has been commonplace for the last decades Data transformations are heavily used in all types of industries to provide information to various users at different levels Depending on individual needs the transformed data is stored in various different systems Sending operational data to other systems for further processing is then required and introduces much complexity to an existing information technology IT infrastructure Although maintenance of additional hardware and software is one component potential inconsistencies and individually managed refresh cycles are others For decades there was no simple and efficient way to perform data transformations on the source system of operational data With IBM DB2 Analytics Accelerator DB2 for z OS is now in a unique position to complete these transformations in an efficient and well performing way DB2 for z OS completes these while connecting to the same platform as for operational transactions helping you to minimize your efforts to manage existing IT infrastructure Real time analytics on incoming operational transactions is another demand Creating a comprehensive scoring model to detect specific patterns inside your data can easily require multiple iterations and multiple hours to complete By enabling a first set of analytical functionality in DB2 Analytics Accelerator those dedicated mining algorithms can now be run on an accelerator to efficiently perform these modeling tasks Given the speed of query processing on an accelerator these modeling tasks can now be performed much quicker compared to traditional relational database management systems This speed enables you to keep your scoring algorithms more up to date and ultimately adapt more quickly to constantly changing customer behaviors This IBM Redbooks publication describes the new table type that is introduced with DB2 Analytics Accelerator V4 1 PTF5 that enables more efficient data transformations These tables are called accelerator only tables and can exist on an accelerator only The tables benefit from the accelerator performance characteristics while maintaining access through existing DB2 for z OS application programming interfaces APIs Additionally we describe the newly introduced analytical capabilities with DB2 Analytics Accelerator V5 1 putting you in the position to

efficiently perform data modeling for online analytical requirements in your DB2 for z OS environment This book is intended for technical decision makers who want to get a broad understanding about the analytical capabilities and accelerator only tables of DB2 Analytics Accelerator In addition you learn about how these capabilities can be used to accelerate in database transformations and in database analytics in various environments and scenarios including the following scenarios Multi step processing and reporting in IBM DB2 Query Management FacilityTM IBM Campaign or Microstrategy environments In database transformations using IBM InfoSphere DataStage Ad hoc data analysis for data scientists In database analytics using IBM SPSS Modeler

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Table of Contents Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization

- Personalized Recommendations
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization User Reviews and Ratings
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization and Bestseller Lists
5. Accessing Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization Free and Paid eBooks
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization Public Domain eBooks
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization eBook Subscription Services
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization Budget-Friendly Options
6. Navigating Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization eBook Formats
- ePub, PDF, MOBI, and More
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization Compatibility with Devices
- Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
- Highlighting and Note-Taking Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
- Interactive Elements Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
8. Staying Engaged with Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization

- ○ Joining Online Reading Communities
- ○ Participating in Virtual Book Clubs
- ○ Following Authors and Publishers Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
9. Balancing eBooks and Physical Books Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
   - ○ Benefits of a Digital Library
   - ○ Creating a Diverse Reading Collection Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
10. Overcoming Reading Challenges
    - ○ Dealing with Digital Eye Strain
    - ○ Minimizing Distractions
    - ○ Managing Screen Time
11. Cultivating a Reading Routine Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
    - ○ Setting Reading Goals Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
    - ○ Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
    - ○ Fact-Checking eBook Content of Efficient Software Development With Db2 For Os390 Organizational And Technical Measures For Performance Optimization
    - ○ 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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