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KEY=DB2 - HARRINGTON NATHANIEL

IBM DB2 12 for z/OS Technical Overview IBM Redbooks *IBM® DB2® 12 for z/OS® delivers key innovations that increase availability, reliability, scalability, and security for your business-critical information. In addition, DB2 12 for z/OS offers performance and functional improvements for both transactional and analytical workloads and makes installation and migration simpler and faster. DB2 12 for z/OS also allows you to develop applications for the cloud and mobile devices by providing self-provisioning, multitenancy, and self-managing capabilities in an agile development environment. DB2 12 for z/OS is also the first version of DB2 built for continuous delivery. This IBM Redbooks® publication introduces the enhancements made available with DB2 12 for z/OS. The contents help database administrators to understand the new functions and performance enhancements, to plan for ways to use the key new capabilities, and to justify the investment in installing or migrating to DB2 12.* **DB2 UDB 8.1 Exam 700 Practice Questions Lulu.com** **DB2 UDB 8.1 Exam 701 Practice Questions Lulu.com** *This book is targeted for IBM Certified Database Administrator candidates. It includes over 200 practice questions and answers for IBM Exam 701 (3 complete practice exams).* **Db2 for z/OS Utilities in Practice IBM Redbooks** *As IBM® continues to enhance the functionality, performance, and availability of IBM Db2®, the utilities have made significant strides towards self-management. IBM Db2 for z/OS utilities is leading the trend towards autonomics. During the last couple of versions of Db2 for z/OS, and through the maintenance stream, new features and enhancements have been delivered to further improve the performance and functionality of the Db2 utilities. The intent of this IBM Redpaper™ publication is to help Db2 Database Administrators, Db2 System Programmers, and anyone who runs Db2 for z/OS utilities implement best practices. The intent of this paper is not to replicate the Db2 for z/OS Utilities Reference Guide or the Db2 for z/OS Installation Guide. This paper describes and informs you how to apply real-life practical preferred practices for the IBM Db2 for z/OS Utilities Suite. The paper concentrates on the enhancements provided by Db2 utilities, regardless of the version, albeit some functions and features are available only in Db2 12 for IBM z/OS®.* **DB2 Developer's Guide A Solutions-Oriented Approach to Learning the Foundation and Capabilities of DB2 for z/OS IBM Press** *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* **eBook: Database Systems Concepts 6e McGraw Hill** *eBook: Database Systems Concepts 6e* **DB2 8 Exam 700 Practice Questions Lulu.com** *This book is targeted for IBM Certified Database Associate candidates for DB2 UDB 8.1. It includes over 200 practice questions and answers for IBM Exam 700 (4 complete practice exams).* **DB2 8 Exam 701 Practice Questions Lulu.com** *This book is targeted for IBM Certified Database Administrator candidates for DB2 8.1. It includes over 200 practice questions and answers for IBM Exam 701 (3 complete practice exams).* **Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS IBM Redbooks** *This IBM® Redbooks® publication discusses in detail the facilities of DB2® for z/OS®, which allow complete monitoring of a DB2 environment. It focuses on the use of the DB2 instrumentation facility component (IFC) to provide monitoring of DB2 data and events and includes suggestions for related tuning. We discuss the collection of statistics for the verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally omitted considerations for query optimization; they are worth a separate document. Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance.* **Exploring IBM Db2 for z/OS Continuous Delivery IBM Redbooks** *This IBM® Redpaper™ publication provides key information about continuous delivery in IBM Db2® 12 for z/OS®. It discusses how continuous delivery works and the changes that have been made in Db2 12 to support continuous delivery, such as adding a new catalog table and changing existing catalog tables. Also the paper covers the effects on applications and how to take advantage of new function provided using the continuous delivery model.* **DB2 12 for z Optimizer IBM Redbooks** *There has been a considerable focus on performance improvements as one of the main themes in recent IBM DB2® releases, and DB2 12 for IBM z/OS® is certainly no exception. With the high-value data retained on DB2 for z/OS and the z Systems platform, customers are increasingly attempting to extract value from that data for competitive advantage. Although customers have historically moved data off platform to gain insight, the landscape has changed significantly and allowed z Systems to again converge operational systems with analytics for real-time insight. Business-*

critical analytics is now requiring the same levels of service as expected for operational systems, and real-time or near real-time currency of data is expected. Hence the resurgence of z Systems. As a precursor to this shift, IDAA brought the data warehouse back to DB2 for z/OS and, with its tight integration with DB2, significantly reduces data latency as compared to the ETL processing that is involved with moving data to a stand-alone data warehouse environment. That change has opened up new opportunities for operational systems to extend the breadth of analytics processing without affecting the mission-critical system and integrating near real-time analytics within that system, all while maintaining the same z Systems qualities of service. Apache Spark on z/OS and Linux for System z also allow analytics in-place, in real-time or near real-time. Enabling Spark natively on z Systems reduces the security risk of multiple copies of the Enterprise data, while providing an application developer-friendly platform for faster insight in a simplified and more secure analytics framework. How is all of this relevant to DB2 for z/OS? Given that z Systems is proving again to be the core Enterprise Hybrid Transactional/Analytical Processing (HTAP) system, it is critical that DB2 for z/OS can handle its traditional transactional applications and address the requirements for analytics processing that might not be candidates for these rapidly evolving targeted analytics systems. And not only are there opportunities for DB2 for z/OS to play an increasing role in analytics, the complexity of the transactional systems is increasing. Analytics is being integrated within the scope of those transactions. DB2 12 for z/OS has targeted performance to increase the success of new application deployments and integration of analytics to ensure that we keep pace with the rapid evolution of IDAA and Spark as equal partners in HTAP systems. This paper describes the enhancements delivered specifically by the query processing engine of DB2. This engine is generally called the optimizer or the Relational Data Services (RDS) components, which encompasses the query transformation, access path selection, run time, and parallelism. DB2 12 for z/OS also delivers improvements targeted at OLTP applications, which are the realm of the Data Manager, Index Manager, and Buffer Manager components (to name a few), and are not identified here. Although the performance measurement focus is based on reducing CPU, improvement in elapsed time is likely to be similarly achieved as CPU is reduced and performance constraints alleviated. However, elapsed time improvements can be achieved with parallelism, and DB2 12 does increase the percentage offload for parallel child tasks, which can further reduce chargeable CPU for analytics workloads.

IBM Tivoli Storage Productivity Center Beyond the Basics IBM Redbooks You have installed and performed the basic customization of IBM® Tivoli® Storage Productivity Center. You have collected performance data and generated reports. Now it's time to learn the best ways to use the software to manage your storage infrastructure. This IBM Redbooks® publication shows the best way to set up the software, based on your storage environment, and then how to use it to manage your infrastructure. It includes experiences from IBM clients and staff and covers the following topics: Architectural design techniques (sizing your environment, single versus multiple installations, physical versus virtual servers, deployment in a large, existing storage infrastructure) Database and server considerations (database backup and restoration methods and scripts, using IBM Data Studio Client for database administration, database placement and relocation, repository sizing and tuning, moving and migrating the server) Alerting, monitoring and reporting (monitoring thresholds and alerts, performance management and analysis of reports, real-time performance monitoring for IBM SAN Volume Controller) Security considerations (Tivoli Storage Productivity Center internal user IDs, user authentication configuration methods, how and why to set up and change passwords, configuring, querying, and testing LDAP and Microsoft Active Directory) Health checks (server health and logs, health and recoverability of IBM DB2® databases, using the Database Maintenance tool) Data management techniques (how to spot unusual growth incidents, scripted actions for Tivoli Storage manager and hierarchical storage management) This book is for storage administrators who are responsible for the performance and growth of the IT storage infrastructure. This publication was updated in January 2017 to reflect the latest support information.

DB2 9 Exam 731 Practice Questions Lulu.com This book is targeted for IBM Certified Database Administrator candidates for DB2 9 for Windows, Linux and UNIX. It includes over 200 practice questions and answers for IBM Exam 731 (3 complete practice exams).

Altova® DatabaseSpy 2008 User & Reference Manual Altova, Inc. DB2 SQL Tuning Tips for z/OS Developers IBM Press 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

Rexx Programmer's Reference John Wiley & Sons Performance Tuning for IBM Security Directory Server IBM Redbooks In today's highly connected world, directory servers are the IT cornerstone of many businesses. These components of the corporate infrastructure are the foundation of authentication systems for internal and, more commonly, external user populations. Managing a directory server with several hundred internal users is not all that difficult. However, managing a directory server with several million external users in all 24 time zones throughout the world is a much more daunting task. IBM® Security Directory Server software can handle millions of entries, given the right architecture, configuration, and performance tuning. However, that tuning can differ greatly from tuning for a smaller server with only a few hundred thousand entries. Managing and tuning a directory server of this size requires a change in mindset. Tuning and performance must be a focus even before the hardware is ordered. A proactive approach must be taken after installation also,

including the pretuning steps to better interface with other products to make installations and migrations successful, and then regular maintenance to keep the directory running smoothly. This IBM Redbooks® publication is the accumulation of lessons learned in many different real-world environments, including a 24-server fault tolerant configuration with more than 300 million entries. The authors pooled their knowledge and resources to provide the most comprehensive performance view possible, from hardware to software, sort heaps to buffer pools, and table cardinalities. In large directory server deployments, use this document as a guide for how to get the right fit for your environment. **DB2 11 for z/OS Technical Overview IBM Redbooks IBM® DB2® Version 11.1 for z/OS® (DB2 11 for z/OS or just DB2 11 throughout this book)** is the fifteenth release of DB2 for IBM MVSTM. It brings performance and synergy with the IBM System z® hardware and opportunities to drive business value in the following areas. DB2 11 can provide unmatched reliability, availability, and scalability - Improved data sharing performance and efficiency - Less downtime by removing growth limitations - Simplified management, improved autonomics, and reduced planned outages DB2 11 can save money and save time - Aggressive CPU reduction goals - Additional utilities performance and CPU improvements - Save time and resources with new autonomic and application development capabilities DB2 11 provides simpler, faster migration - SQL compatibility, divorce system migration from application migration - Access path stability improvements - Better application performance with SQL and XML enhancements DB2 11 includes enhanced business analytics - Faster, more efficient performance for query workloads - Accelerator enhancements - More efficient inline database scoring enables predictive analytics The DB2 11 environment is available either for new installations of DB2 or for migrations from DB2 10 for z/OS subsystems only. This IBM Redbooks® publication introduces the enhancements made available with DB2 11 for z/OS. The contents help database administrators to understand the new functions and performance enhancements, to plan for ways to use the key new capabilities, and to justify the investment in installing or migrating to DB2 11. **Encyclopedia of Parallel Computing Springer Science & Business Media** Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searches for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benchmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research. Related Subjects: supercomputing, high-performance computing, distributed computing **Altova® DiffDog® 2013 User & Reference Manual Altova, Inc. Altova® DatabaseSpy 2011 User & Reference Manual Altova, Inc. Altova® DatabaseSpy 2013 User & Reference Manual Altova, Inc. Altova® DatabaseSpy 2012 User & Reference Manual Altova, Inc. Altova® DatabaseSpy 2009 User & Reference Manual Altova, Inc. Altova® DatabaseSpy 2010 User & Reference Manual Altova, Inc. Modernize Your IBM DB2 for IBM z/OS Maintenance with Utility Autonomics IBM Redbooks IBM® DB2® for IBM z/OS® helps lower the cost of managing data by automating administration, increasing storage efficiency, improving performance, and simplifying the deployment of virtual appliances. By automating tasks such as memory allocation, storage management, and business policy maintenance, DB2 is able to perform many management tasks itself, freeing up Database Administrators to focus on new projects. This IBM Redbooks® publication introduces autonomics for DB2 for z/OS. IBM provides several different components that, when combined, can create an autonomic database environment. All these respective components cover certain aspects of autonomics, which can collaborate into one coherent solution. In our evolution of autonomics and the need to move to smarter systems there has been a bigger drive to the concept of "Active" versus "Passive" autonomics. With the inclusion of the IBM Management Console for IMSTM and DB2 for z/OS and the Autonomics Director, it is now easier than ever to make that transition by leveraging the strength of the DB2 Utilities Solution Pack for z/OS all in one standardized and centralized interface. This publication guides you through the business reasons for adopting autonomic solutions, and provides step-by-step guidance to implement these capabilities in your DB2 for z/OS configuration. This publication is of interest primarily to DB2 Database Administrators and DB2 Systems Programmers, and for anyone looking to understand the benefits of DB2 autonomic solutions. **Reliability and Performance with IBM DB2 Analytics Accelerator V4.1 IBM Redbooks** The IBM® DB2® Analytics Accelerator for IBM z/OS® is a high-performance appliance that integrates the IBM zEnterprise® infrastructure with IBM PureData™ for Analytics, powered by IBM Netezza® technology. With this integration, you can accelerate data-intensive and complex queries in a DB2 for z/OS highly secure and available environment. DB2 and the Analytics Accelerator appliance form a self-managing hybrid environment running online transaction processing and online transactional analytical processing concurrently and efficiently. These online transactions run together with business intelligence and online analytic processing workloads. DB2 Analytics Accelerator V4.1 expands the value of high-performance analytics. DB2 Analytics Accelerator V4.1 opens to static Structured Query Language (SQL) applications and row set processing, minimizes data movement, reduces latency, and improves availability. This IBM Redbooks® publication provides technical decision-makers with an understanding of the benefits of version 4.1 of the Analytics Accelerator with DB2 11 for z/OS. It describes the installation of the new functions, and the advantages to existing analytical processes as measured in our test environment. This book also introduces the DB2 Analytics Accelerator Loader V1.1, a tool that facilitates the data population of the DB2 Analytics Accelerator. **Simply SQL SitePoint** Packed with examples, Simply SQL is a step-by-step introduction to learning SQL. You'll discover how easy it is to use SQL to interact with best-practice, robust databases. Rather than bore you with theory, it focuses on the practical use of SQL with common databases and uses plenty of diagrams, easy-to-read text, and examples to help make learning SQL easy and fun. Step**

through the basic SQL syntax Learn how to use best practices in database design Master advanced syntax like inner joins, groups, and subqueries Understand the SQL datatypes And much more... **z/VSE Using DB2 on Linux for System z IBM Redbooks** Data is one of the most critical and valuable assets of a business. Critical strategic decisions can be made more quickly and effectively when they are based on complete, accurate, and timely operational data. From this point of view, it is important to have an enterprise data management architecture that supports a flexible global view of the business. Many environments today are heterogeneous with a high quantity and diversity of data. In this IBM® Redbooks® publication, we help enterprise architects and IT managers with these environments make decisions for a centralized database or data warehouse. We recommend a centralized data management environment on Linux® on System z®. We include guidance for IBM z/VSETM and Linux specialists to reorganize existing IBM DB2® VSE data and build a database environment with continuous operation in Linux on System z. We begin this book by describing the possibilities and advantages of enterprise data management and different technical ways to realize it. Then we discuss planning, which is important for setting the foundation of the architecture that is implemented. We explain the hardware considerations for capacity and performance planning. For the z/VSE system and Linux on System z, we describe considerations for operation in a logical partition (LPAR) and in a virtualized environment with IBM z/VM®. In addition, we discuss the disk behavior for different workloads, storage dependencies, network connections, and DB2 database considerations. We also guide you in customizing the DB2 server for z/VSE, z/VM, and DB2 on Linux to allow existing z/VSE and z/VM applications to access the database on Linux on System z. We include the data migration, application considerations, dependencies, compatibility, monitoring, and tuning possibilities in such an environment. **DB2 Virtualization IBM Redbooks** Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers. IBM®, the first company that developed and made available the virtual technology in 1966, offers advanced, powerful, reliable, and cost-saving virtualization technologies in various hardware and software products including DB2® for Linux, UNIX, and Windows. This IBM Redbooks® publication describes using IBM DB2 9 with server virtualization. We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented. With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market. Following the virtualization concept, we describe in detail the setup, configuration, and managing of DB2 with three leading server virtualization technologies: IBM Power Systems™ with PowerVM™ VMware Hyper-V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2. We explain the architecture and components of these three server virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies. In addition, we discuss the DB2 features and functions that can take advantage of using server virtualization. These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book. This book also includes a list of best practices from the various tests performed while using these virtualization technologies. These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies. **ABCs of IBM z/OS System Programming IBM Redbooks** The ABCs of IBM z/OS® System Programming is a 13-volume collection that provides an introduction to the z/OS operating system and the hardware architecture. Whether you are a beginner or an experienced system programmer, the ABCs collection provides the information that you need to start your research into z/OS and related subjects. The ABCs collection serves as a powerful technical tool to help you become more familiar with z/OS in your current environment, or to help you evaluate platforms to consolidate your e-business applications. This edition is updated to z/OS Version 2 Release 3. The other volumes contain the following content: Volume 1: Introduction to z/OS and storage concepts, TSO/E, ISPF, JCL, SDSF, and z/OS delivery and installation Volume 2: z/OS implementation and daily maintenance, defining subsystems, IBM Job Entry Subsystem 2 (JES2) and JES3, link pack area (LPA), LNKLST, authorized libraries, System Modification Program Extended (SMP/E), IBM Language Environment Volume 4: Communication Server, TCP/IP, and IBM VTAM® Volume 5: Base and IBM Parallel Sysplex®, System Logger, Resource Recovery Services (RRS), global resource serialization (GRS), z/OS system operations, automatic restart manager (ARM), IBM Geographically Dispersed Parallel Sysplex™ (IBM GDPS) Volume 6: Introduction to security, IBM RACF®, Digital certificates and PKI, Kerberos, cryptography and z990 integrated cryptography, zSeries firewall technologies, LDAP, and Enterprise Identity Mapping (EIM) Volume 7: Printing in a z/OS environment, Infoprint Server, and Infoprint Central Volume 8: An introduction to z/OS problem diagnosis Volume 9: z/OS UNIX System Services Volume 10: Introduction to IBM z/Architecture®, the IBM Z platform, IBM Z connectivity, LPAR concepts, HCD, and DS Storage Solution. Volume 11: Capacity planning, performance management, WLM, IBM RMFTM, and SMF Volume 12: WLM Volume 13: JES3, JES3 SDSF **Altova Mapforce 2005 User & Reference Manual Altova, Inc. Reduce Storage Occupancy and Increase Operations Efficiency with IBM zEnterprise Data Compression IBM Redbooks** IBM® zEnterprise® Data Compression (zEDC) capability and the Peripheral Component Interconnect Express (PCIe or PCI Express) hardware adapter called zEDC Express were announced in July 2013 as enhancements to the IBM z/OS® V2.1 operating system (OS) and the IBM zEnterprise EC12 (zEC12) and the IBM zEnterprise BC12 (zBC12). zEDC is optimized for use with large sequential files, and uses an industry-standard compression library. zEDC can help to improve disk usage and optimize cross-platform exchange of data with minimal effect on processor usage. The first candidate for such compression was the System Management Facility (SMF), and support for basic sequential access method (BSAM) and queued sequential access method (QSAM) followed in first quarter 2014. IBM software development kit (SDK) 7 for z/OS Java, IBM Encryption Facility for z/OS, IBM Sterling Connect:Direct® for z/OS and an IBM z/VM® guest can also use zEDC Express. zEDC can also be used for Data Facility Storage Management Subsystem data set services (DFSMSdss) dumps and restores, and for DFSMS hierarchical storage manager (DFSMSHsm) when using DFSMSdss for data moves. This IBM Redbooks® publication describes how to set up the zEDC functionality to obtain the benefits of portability, reduced storage space, and reduced processor use for large operational sets of data with the most current IBM System z® environment. **DB2 9 for z/OS Performance Topics IBM Redbooks** 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 Developer's Guide Pearson Education India** Marketshare for DB2 has been growing steadily over the past 5 years and with the announcement of DB2 Universal Database V8 (T-Rex), the product has never had more momentum. DB2 owns about 30 percent of the database market--the same as Oracle. Not only is the product used in many Fortune 500 companies, but it is becoming very popular in small to medium sized businesses as well. This book provides the reader with a comprehensive reference and research tool for DB2 for the mainframe. Official material is awkwardly written, spans over a dozen manuals in PDF format, and lacks real-world guidance. Author, Craig Mullins, consistently hears from readers of past editions that they rely on this book as their primary reference for DB2. Craig Mullins is constantly being asked when it will support a new release. **DB2 Universal Database V8 for Linux, UNIX, and Windows Database Administration Certification Guide Prentice Hall Professional** DB2 Universal Database v8 builds on the world's #1 enterprise database to simplify anytime/anywhere information integration, streamline management, automate resource tuning, enhance business intelligence, and maximize performance, scalability, and reliability. Now, IBM offers complete, start-to-finish coverage of DB2 Universal Database v8 administration and development for UNIX, Linux, and Windows platforms... "and authoritative preparation for IBM's newest DB2 certification exam." This definitive reference and self-study guide covers every aspect of deploying and managing DB2 Universal Database v8, including best practices for DB2 database design and development; day-to-day administration and backup; expert techniques for deploying networked, Internet-centered, and XML-based database applications; migrating to DB2 UDB v8; and much more. You'll also find an unparalleled collection of IBM tips and tricks for maximizing the performance, availability, and value of any database system. Coverage includes: Manageability and serviceability enhancements, including new tools for storage management and monitoring database health Performance improvement with multidimensional clustering, enhanced prefetching, threading of Java UDFs and stored procedures, and materialized query tables New Setup wizards, configuration assistants, GUI tools, and DB2 Administration Server (DAS) improvements Availability and scalability enhancements New DB2 v8 Replication and Data Warehouse Centers Major improvements for developers, including SQL, XML, JDBC, and CL enhancements Whether you're a DBA, a developer, a DB2 certification candidate, or all three, "DB2 Universal Database v8 for Linux, UNIX, and Windows Database Administration Certification Guide" is the one book you can't afford to be without. Straight from IBM, the ultimate guide to running DB2 v8 and preparing for IBM's latest DB2 certification exam! In-depth coverage of DB2 v8 database administration and development Covers new DB2 v8 enhancements in manageability, serviceability, reliability, availability, and performance Contains in-depth coverage of new DB2 v8 tools, including the Replication, Data Warehouse, and Development Centers Presents expert tips and best practices from IBM's own DB2 customer support organization About the CD The CD-ROM included with this book contains a complete trial version of DB2 UDB V8 Personal Edition, plus the DB2DEMO program to help explore the many features of DB2. **Altova® DiffDog® 2012 User & Reference Manual Altova, Inc. The IBM Style Guide Conventions for Writers and Editors IBM Press** Straight from IBM: complete, proven guidelines for writing consistent, clear, concise, consumable, reusable, and easy to- translate content Brings together everything IBM has learned about writing outstanding technical and business content. **InfoSphere Data Replication for DB2 for z/OS and WebSphere Message Queue for z/OS: Performance Lessons IBM Redbooks** Understanding the impact of workload and database characteristics on the performance of both DB2®, MQ, and the replication process is useful for achieving optimal performance. Although existing applications cannot generally be modified, this knowledge is essential for properly tuning MQ and Q Replication and for developing best practices for future application development and database design. It also helps with estimating performance objectives that take these considerations into account. Performance metrics, such as rows per second, are useful but imperfect. How large is a row? It is intuitively, and correctly, obvious that replicating small DB2 rows, such as 100 bytes long, takes fewer resources and is more efficient than replicating DB2 rows that are tens of thousand bytes long. Larger rows create more work in each component of the replication process. The more bytes there are to read from the DB2 log, makes more bytes to transmit over the network and to update in DB2 at the target. Now, how complex is the table definition? Does DB2 have to maintain several unique indexes each time a row is changed in that table? The same argument applies to transaction size: committing each row change to DB2 as opposed to committing, say, every 500 rows also means more work in each component along the replication process. This Redpaper™ reports results and lessons learned from performance testing at the IBM® laboratories, and it provides configuration and tuning recommendations for DB2, Q Replication, and MQ. The application workload and database characteristics studied include transaction size, table schema complexity, and DB2 data type. **IBM DB2 9.7 Advanced Administration Cookbook Packt Publishing Ltd** This is a practical hands-on book with clear instructions and lot of code examples. It takes a simple approach, guiding you through different architectural topics using realistic sample projects