

Db2 Sql Reference Guide

DB2 SQL developers now have a handy reference guide with tuning tips to improve performance in queries, programs and applications. Poorly coded programs or improperly coded SQL statements are often the culprit causing poor performance. Many developers working with an IBM DB2 relational database will benefit from this guide, entitled 'DB2 SQL 75+ Tuning Tips For Developers'. The book's focus is to increase developers' knowledge in the ways of

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performance and tuning in an IBM DB2 relational database environment. In an organized and easy-to-understand format, the guide provides development and SQL tips that will help developers improve performance problems. By modifying application and SQL code, understanding Runstat options, or adding and altering indexes, there are many things that developers can do to resolve performance issues. This book provides development tips and suggestions, along with many SQL coding examples, all with the purpose of gaining better performance.

A comprehensive Perl reference

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contains a CD-Rom with sample scripts and applications from the book, in addition to appendices for the advanced Perl user with an alphabetized function reference for the built-in Perl functions, and much more. Original. (All Users). This IBM® Redbooks® publication is based on the book Introduction to the New Mainframe: z/OS Basics, SG24-6366, which was produced by the International Technical Support Organization (ITSO), Poughkeepsie Center. It provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of

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a mainframe computer. For optimal learning, students are assumed to have successfully completed an introductory course in computer system concepts, such as computer organization and architecture, operating systems, data management, or data communications. They should also have successfully completed courses in one or more programming languages, and be PC literate. This textbook can also be used as a prerequisite for courses in advanced topics, or for internships and special studies. It is not intended to be a complete text covering all aspects of mainframe operation. It is also not

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a reference book that discusses every feature and option of the mainframe facilities. Others who can benefit from this course include experienced data processing professionals who have worked with non-mainframe platforms, or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment. As we go through this course, we suggest that the instructor alternate between text, lecture, discussions, and hands-on exercises. Many of the exercises are cumulative, and are designed

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to show the student how to design and implement the topic presented. The instructor-led discussions and hands-on exercises are an integral part of the course, and can include topics not covered in this textbook. In this course, we use simplified examples and focus mainly on basic system functions. Hands-on exercises are provided throughout the course to help students explore the mainframe style of computing. At the end of this course, you will be familiar with the following information: Basic concepts of the mainframe, including its usage and architecture

Fundamentals of IBM

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z/VSE® (VSE), an IBM zTM Systems entry mainframe operating system (OS) An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced, specialized areas of z/VSE, such as system administration or application programming

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

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from other operating systems such as Windows and UNIX.

DB2 Developer's Guide

SQL Queries for Mere Mortals

Db2 Sql 75+ Tuning Tips for Developers

DB2 9 for Linux, UNIX, and Windows

SQL in a Nutshell

SQL for DB2 ISBN:

978-1-58304-123-9 This focused, comprehensive textbook provides start-to-finish coverage of SQL for DB2. Whether youre a college student studying SQL for DB2 for the first time or a professional developer who needs to

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learn SQL for DB2, this book covers all the basics necessary for success. The purpose of any database book is to learn how to develop databases effectively and precisely without the need for a lot of complicated jargon. This book delivers on that promise by focusing on the skill set necessary to develop well-designed DB2 databases. SQL for DB2 covers the core requirements of a traditional database course. Topics are presented in an accessible, easy-to-learn manner with numerous

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examples and tips. End-of-chapter materials include a chapter summary, list of key terms, and hands-on exercises that put the concepts to work. SQL for DB2 builds on the foundation of its widely acclaimed predecessor, SQL/400 Developers Guide, to provide an up-to-date introduction to SQL for DB2 for todays students and professionals. All chapters have been refreshed, with improved organization throughout. Examples have been updated, and new material has been added. This new edition includes:

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**New chapters introducing
DB2 and System i Navigator
Expanded coverage of
single- and multiple-table
queries Expanded coverage
of updating databases with
SQL An expanded
discussion of normalization
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Introduction to DB2
Chapter 2 Introduction to
SQL Chapter 3 Single-Table
Queries Chapter 4
Introduction to Data
Modeling and Database
Design Chapter 5 Logical
Data Modeling Chapter 6
Entity Relationship
Diagram Chapter 7
Normalization Chapter 8**

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**Physical Database Design
Chapter 9 Database
Constraints Chapter 10
Multiple Table Queries
Chapter 11 Views and
Indexes Chapter 12
Updating Tables Chapter 13
Static and Dynamic
Embedded Statements
Chapter 14 SQL Cursors
and Result Sets Chapter 15
The Create SQL Program
Command Chapter 16 Using
SQL in RPG Programs
Chapter 17 Triggers
Chapter 18 Additional SQL
Topics Chapter 19 Database
Security and Grant and
Revoke Statements
Switching database vendors**

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is often considered an exhausting challenge for database administrators and developers. Complexity, total cost, and the risk of downtime are often the reasons that restrain IT decision makers from starting the migration project. The primary goal of this book is to show that, with the proper planning and guidance, converting from MySQL to IBM® DB2® is not only feasible but straightforward. If you picked up this book, you are most likely considering converting to DB2 and are probably aware of several of

the advantages of to converting to DB2 data server. In this IBM Redbooks® publication, we discuss in detail how you can take advantage of this industry leading database server. This book is an informative guide that describes how to convert the database system from MySQL™ 5.1 to DB2® V9.7 on Linux® and the steps that are involved in enabling the applications to use DB2 instead of MySQL. This guide also presents the best practices in conversion strategy and planning, conversion tools, porting

steps, and practical conversion examples. It is intended for technical staff that is involved in a MySQL to DB2 conversion project. DB2® 9 builds on the world's number one enterprise database to simplify the delivery of information as a service, accelerate development, and dramatically improve operational efficiency, security, and resiliency. Now, this new edition offers complete, start-to-finish coverage of DB2 9 administration and development for Linux®, UNIX®, and Windows®

platforms, as well as authoritative preparation for the latest IBM DB2 certification exam. Written for both DBAs and developers, this definitive reference and self-study guide covers all aspects of deploying and managing DB2 9, including DB2 database design and development; day-to-day administration and backup; deployment of networked, Internet-centered, and SOA-based applications; migration; and much more. You'll also find an unparalleled collection of expert tips for optimizing

performance, availability, and value. Coverage includes: Important security and resiliency enhancements, including advanced access control; fine-grained, label-based security; and the new security administrator role Breakthrough pureXML™ features that make it easier to succeed with service-oriented architecture Operational improvements that enhance DBA efficiency--including self-tuning memory allocation, automated storage management, and storage optimization Table-

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partitioning features that improve scalability and manageability Powerful improvements for more agile and rapid development, including the new Eclipse-based Developer Workbench and simple SQL or XQuery access to all data Whatever your role in working with DB2 or preparing for certification, DB2 9 for Linux, UNIX, and Windows, Sixth Edition is the one book you can't afford to be without. Download Complete DB2 V9 Trial Version Visit ibm.com/db2/9/download.html to download

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a complete trial version of DB2, which enables you to try out dozens of the most powerful features of DB2 for yourself: everything from pureXML support to automated administration and optimization. Straight from IBM, the ultimate guide to running DB2 9 and preparing for the latest IBM DB2 certification exam! Covers powerful DB2 9 enhancements ranging from automated management to improved compression Covers the full spectrum of DBA responsibilities, including server management, data

placement, XML concepts, activity analysis, high availability, and security Presents expert tips and best practices from the DB2 customer support organization

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 autonomies. 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

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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®.

Oracle to DB2 Conversion Guide: Compatibility Made Easy

DB2 Universal Database for OS/390

Computerworld

Advanced DBA Certification Guide and Reference for DB2 Universal Database V8 for Linux, UNIX, and

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Windows

An Introduction to DB2 for OS/390 Version 7

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. The Definitive Solutions-Oriented Guide to IBM®

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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

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(“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

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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

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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

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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 Database: Principles Programming Performance provides an introduction to the fundamental principles of database systems. This book focuses on database programming and the relationships between principles, programming, and performance.

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Organized into 10 chapters, this book begins with an overview of database design principles and presents a comprehensive introduction to the concepts used by a DBA. This text then provides grounding in many abstract concepts of the relational model. Other chapters introduce SQL, describing its capabilities and covering the statements and functions of the programming language. This book provides as well an introduction to Embedded SQL and Dynamic SQL that is

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sufficiently detailed to enable students to immediately start writing database programs. The final chapter deals with some of the motivations for database systems spanning multiple CPUs, including client-server and distributed transactions. This book is a valuable resource for database administrators, application programmers, specialist users, and end users. Comprehensive coverage of the leading relational DBMS in the IBM market. Authors detail the features of the newest product release,

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**DB2 Version 2, Release 2,
including a systematic
treatment of the DB2
dialect of the SQL
language. Annotation
copyrighted by Book News,
Inc., Portland, OR
A Solutions-Oriented
Approach to Learning the
Foundation and Capabilities
of DB2 for z/OS
A Desktop Quick Reference
DB2 9 for z/OS: Packages
Revisited
SQL for DB2
DB2**

*Presents a guide to writing effective
SQL queries, from simple data
selection and filtering to joining
multiple tables and modifying sets of*

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data, with information on how to solve a variety of challenging SQL problems.

This pocket guide presents the most crucial information about SQL in a compact and easily accessible format, covering the four commonly used SQL variants--Oracle, IBM DB2, Microsoft SQL Server, and MySQL. Topics include: Data manipulation statements (SELECT, DELETE, INSERT, UPDATE, MERGE) and transaction control statements (START TRANSACTION, SAVEPOINT, COMMIT, ROLLBACK). Common SQL functions (date, numeric, math, trigonometric, string, conversion, aggregate) Such topics as literals,

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NULLs, CASE expressions, datatype conversion, regular expressions, grouping and summarizing data, joining tables, and writing queries (hierarchical, recursive, union, flashback) and subqueries. Instead of presenting complex and confusing syntax diagrams, the book teaches by example, showing the SQL statements and options that readers are most like to use. All example data is available on the O'Reilly web site. "If you need fast, accurate SQL information, with examples for multiple database engines, be sure to check out this book."--Chris Kempster, Senior DBA and author of SQL Server 2000 for the Oracle DBA, www.chriskempster.com

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Structured Query Language (SQL) procedures, triggers, and functions, which are also known as user-defined functions (UDFs), are the key database features for developing robust and distributed applications. IBM® DB2® for i supported these features for many years, and they are enhanced in IBM i versions 6.1, 7.1, and 7.2. DB2 for i refers to the IBM DB2 family member and relational database management system that is integrated within the IBM Power operating system that is known as IBM i. This IBM Redbooks® publication includes several of the announced features for SQL procedures, triggers, and functions in IBM i versions 6.1, 7.1,

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and 7.2. This book includes suggestions, guidelines, and practical examples to develop DB2 for i SQL procedures, triggers, and functions effectively. This book covers the following topics:

Introduction to the SQL/Persistent Stored Modules (PSM) language, which is used in SQL procedures, triggers, and functions SQL procedures SQL triggers SQL functions This book is for IBM i database engineers and data-centric developers who strive to provide flexible, extensible, agile, and scalable database solutions that meet business requirements in a timely manner. Before you read this book, you need to know about

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relational database technology and the application development environment on the IBM Power Systems™ with the IBM i operating system.

This IBM® Redbooks® publication describes IBM DB2® SQL compatibility features. The latest version of DB2 includes extensive native support for the PL/SQL procedural language, new data types, scalar functions, improved concurrency, built-in packages, OCI, SQLPlus, and more. These features can help with developing applications that run on both DB2 and Oracle and can help simplify the process of moving from Oracle to DB2. In addition, IBM now

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provides tools to simplify the enablement process, such as the highly scalable IBM Data Movement Tool for moving schema and data into DB2, and an Editor and Profiler for PL/SQL provided by the IBM Data Studio tool suite. This Oracle to DB2 migration guide describes new technology, preferred practices for moving to DB2, and common scenarios that can help you as you move from Oracle to DB2. This book is intended for IT architects and developers who are converting from Oracle to DB2. DB2 compatibility with Oracle is provided through native support. The new capabilities in DB2 that provide compatibility are

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implemented at the lowest and most intimate levels of the database kernel, as though they were originally engineered for DB2. means that the DB2 implementation is done without the aid of an emulation layer. This intimacy leads to the scalable implementation that DB2 offers, providing identical performance between DB2 compatibility features and DB2 other language elements. For example, DB2 runs SQL PL at the same performance as PL/SQL implementations of the same function.

A Complete Guide to DB2 Universal Database

Db2 SQL PL

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DB2 12 for z Optimizer

A Guide To Db2

Learning Visually with Examples

This book is designed for professional application developers and college-level students who want to become developers. It features thorough and updated coverage of database design and SQL for DB2. Topics covered include database concepts, SQL inquiries, web applications, and database security. The material is reinforced by numerous illustrations, examples, and exercises.

There has been a

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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

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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

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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

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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

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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

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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

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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

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the percentage offload for parallel child tasks, which can further reduce chargeable CPU for analytics workloads. Now, there's a definitive guide to advanced DB2 UDB database administration that also delivers all the depth and insight you need to prepare for the tough new IBM exam. Straight from the DB2 experts at IBM, this book offers systematic and authoritative coverage of every exam objective and will serve as a reference after you have passed the test.

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This certification guide offers a complete, start-to-finish coverage of DB2 Universal Database Version 8 administration. With Version 8 key topics such as Performance Enhancements, Manageability Enhancements, etc. are addressed.

DBA Guide, Reference, and Exam Prep

DB2 SQL Procedural Language for Linux, UNIX, and Windows

IBM DB2 12 for z/OS Technical Overview

Principles Programming Performance

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DBAs Guide to Databases Under Linux

If you're a programmer or database administrator who uses SQL in your day-to-day work, this popular pocket guide is the ideal on-the-job reference. You'll find many examples that address the language's complexity, along with key aspects of SQL used in IBM DB2 Release 9.7, MySQL 5.1, Oracle Database 11g Release 2, PostgreSQL 9.0, and Microsoft SQL Server 2008 Release 2. SQL Pocket Guide describes how these database systems implement SQL syntax for querying, managing transactions, and making changes to data. It also shows how the systems use SQL functions, regular expression syntax, and type

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conversion functions and formats. All example SQL statements in this book execute against a set of tables, with data that you can quickly download. The third edition covers important database changes, including: Oracle's support of the recursive WITH syntax, and addition of PIVOT and UNPIVOT operators Functions new to Oracle, such as LISTAGG, NTH_VALUE, and more PostgreSQL's support of recursive WITH and some window functions DB2 syntax and datatypes, some compatible with Oracle MySQL features such as the TIMESTAMP type and the TO_SECONDS function DB2 SQL PLEssential Guide for DB2 UDB on Linux, Unix,

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Windows, I5/0s, and Z/OSIBM Press

This IBM Redbooks publication addresses the challenges posed by monitoring high availability, scalability, and performance in an SAP sysplex data sharing environment. It introduces the motivations for utilizing a design based on DB2 data sharing. It includes the principal SAP-DB2 data sharing architecture options and trade-offs used in the industry today and issues that play a role in both high availability and scalability, such as failover design, database connectivity design, workload splitting and load balancing, MCOD, and coupling facility design. The book discusses single point of failure, important

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failover scenarios and outage avoidance, automation of high availability constructs, and backup and recovery considerations in data sharing environments. Performance issues are detailed in the order you would approach them at planning and implementation time. First, it discusses tuning the sysplex, which is the base for a well-performing DB2 data sharing system, then tuning the DB2 data sharing system, which is the base for a well-performing SAP system, and finally, tuning the SAP system. The book focuses on initial planning for performance and monitoring it afterward, and explains the key points to look for to health-check your system and maintain high

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performance.

A practical guide to DB2 z/OS database administration that is 100 percent focused on running DB2 in z/OS environments The only comprehensive preparation guide for the IBM Certified Database Administrator for DB2 Universal Database V8 z/OS certification Covers database planning, design, implementation, operation, recovery, security, performance, installation, migration, and more Sample test questions help you prepare for both IBM DB2 DBA Tests 700 and 702 IBM DB2 Universal Database Version 8 for z/OS offers enterprises unprecedented opportunities to integrate information, deliver it on demand, and manage it simply

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and cost-effectively. Now, one of the world's leading DB2 consultants presents the definitive guide to administering DB2 UDB V8 databases in z/OS environments. DB2 for z/OS Version 8 DBA Certification Guide also serves as a key tool for anyone preparing for IBM Certified Database Administrator for DB2 Universal Database V8 for z/OS certification. IBM Gold Consultant Susan Lawson presents hundreds of practical techniques, expert guidelines, and useful tips for every facet of DB2 UDB database administration, including database implementation, operation, recovery, security, auditing, performance, installation, migration, SQL, and

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more. Coverage includes Understanding the DB2 product family, architecture, attachments, and the DB2 z/OS environment Securing enterprise-class DB2 installations and applications Using SQL to create and manage database objects, and manipulate and retrieve information Mastering key DBA tasks, including loading, reorganizing, quiescing, repairing, and recovering data; recovering and rebuilding indexes; and gathering statistics Implementing data sharing in Parallel Sysplex environments Learning the fundamentals of DB2 application development from the DBA's perspective Leveraging advanced DB2 functions, including stored

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procedures and other object-relational extensions Optimizing DB2 applications and the DB2 engine for maximum performance Whether you are administering DB2 UDB V8 in z/OS environments, planning to do so, or preparing for DB2 UDB V8 DBA certification, DB2 for z/OS Version 8 DBA Certification Guide will be your single most valuable resource.

Db2 for z/OS Utilities in Practice SQL/400 Developer's Guide SAP on DB2 for z/OS and OS/390: High Availability and Performance Monitoring with Data Sharing

A Hands-On Guide to Data Manipulation in SQL

This is a guide designed to familiarize users with the DB2 standard while helping

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to optimize their use of the technology. 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. 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.

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.

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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,

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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

SQL is the language of databases. It's used to create and maintain database objects, place data into those objects, query the data, modify the data, and, finally, delete data that is no longer needed. Databases lie at the heart of many, if not most business applications. Chances are very good that if you're involved with software development, you're using SQL to some degree. And if you're using SQL, you should own a good reference to the language. While it's a standardized language, actual implementations of SQL

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are anything but standard. Vendor variation abounds, and that's where this book comes into play. SQL in a Nutshell, Second Edition, is a practical and useful command reference for SQL2003, the latest release of the SQL language. The book presents each of the SQL2003 statements and describes their usage and syntax, not only from the point of view of the standard itself, but also as implemented by each of the five major database platforms : DB2, Oracle, MySQL, PostgreSQL, and SQL Server. Each statement reference includes the command syntax by vendor, a description, and informative examples that illustrate important concepts and uses. And SQL is not just about statements. Also important are datatypes and the vast library of built-in SQL functions that is so necessary in getting real work done. This book documents those datatypes and functions,

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both as described in the standard and as implemented by the various vendors. This edition also includes detailed information about the newer window function syntax that is supported in DB2 and Oracle. SQL in a Nutsbell, Second Edition, is not only a convenient reference guide for experienced SQL programmers, analysts, and database administrators. It's also a great resource for consultants and others who need to be familiar with the various SQL dialects across many platforms.

DB2 11 for z/OS Technical Overview

A Guide to DB2

Introduction to the New Mainframe: IBM

z/VSE Basics

DB2 Essentials

DB2 SQL PL

The #1 Easy, Common-Sense Guide to SQL Queries—Updated with More Advanced Techniques

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and Solutions Foreword by Keith W. Hare, Vice Chair, USA SQL Standards Committee SQL Queries for Mere Mortals has earned worldwide praise as the clearest, simplest tutorial on writing effective queries with the latest SQL standards and database applications. Now, author John L. Viescas has updated this hands-on classic with even more advanced and valuable techniques. Step by step, Viescas guides you through creating reliable queries for virtually any current SQL-based database. He demystifies all aspects of SQL query writing, from simple data selection and filtering to joining multiple tables

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and modifying sets of data. Building on the basics, Viescas shows how to solve challenging real-world problems, including applying multiple complex conditions on one table, performing sophisticated logical evaluations, and using unlinked tables to think "outside the box." In two brand-new chapters, you learn how to perform complex calculations on groups for sophisticated reporting, and how to partition data into windows for more flexible aggregation. Practice all you want with downloadable sample databases for today's versions of Microsoft Office Access, Microsoft SQL Server, and the open source

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MySQL and PostgreSQL databases. Whether you're a DBA, developer, user, or student, there's no better way to master SQL. Coverage includes: Getting started: understanding what relational databases are, and ensuring that your database structures are sound SQL basics: using SELECT statements, creating expressions, sorting information with ORDER BY, and filtering data using WHERE Summarizing and grouping data with GROUP BY and HAVING clauses Drawing data from multiple tables: using INNER JOIN, OUTER JOIN, and UNION operators, and working with subqueries Modifying data

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sets with UPDATE, INSERT, and DELETE statements Advanced queries: complex NOT and AND, conditions, if-then-else using CASE, unlinked tables, driver tables, and more NEW! Using advanced GROUP BY keywords to create subtotals, roll-ups, and more NEW! Applying window functions to answer more sophisticated questions, and gain deeper insight into your data Software-Independent Approach! If you work with database software such as Access, MS SQL Server, Oracle, DB2, MySQL, Ingres, or any other SQL-based program, this book could save you hours of time and aggravation—before you write a

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single query!

Written for technical users of DB2, this reference book provides hard-to-find information about this database. Packed with tips and experience-based techniques, this book also delivers information on coding efficient SQL, monitoring, and tuning DB2 performance.

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

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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

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the investment in installing or migrating to DB2 12.

The accompanying CD-ROM contains source code, DB2 product documentation, and a complete trial version of DB2 Enterprise Server Edition for Windows version 8.2.

DB2 for z/OS Version 8 DBA Certification Guide

A Hands-on Guide to Data Manipulation in SQL Database

Understanding DB2

MySQL to DB2 Conversion Guide

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

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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

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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 -

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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

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installing or migrating to DB2 11.

In an effort to increase its marketshare and threat to Windows NT, Oracle8 was ported to Linux in late 1998, opening the popular database to an additional 10 million Linux users worldwide. The availability of Oracle8 enables current Linux users to deploy enterprise-class applications at low cost and provides an alternative to Microsoft Windows NT. This book covers that marriage of the most popular database and the fastest growing

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operating system. *

Complete coverage. Covers both Oracle8i and Oracle8i Lite, as well as Oracle Applications, Oracle Applications Server, and Oracle Developer *

Organizations and Oracle database administrators will be looking for information on Linux as it gets adopted - this book fits the bill *

Covers two growth markets and fills a need for information not covered elsewhere

DB2® packages were introduced with DB2 V2.3 in 1993. During the 15 years that have elapsed, a

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lot has changed. In particular, there is a more widespread use of distributed computing, Java™ language, new tools, and upgrades in the platform software and hardware. The best practices back then just might not be optimal today. In this IBM® Redbooks® publication, we take a fresh look at bringing packages into the 21st century. We begin with an overview of packages and explain the advantages of using packages. Because database request module (DBRM)

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based plans have been deprecated in DB2 9, you need to convert to packages if you did not use packages already. We provide guidance on using a DB2 provided function to convert from DBRM-based plans to packages. We re-examine the application development frameworks for packages: program preparation, package setup, and execution. For distributed applications, we include a discussion of a utility to identify and remove deprecated private protocol and converting to DRDA® as well as an

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introduction to the new pureQuery function of Data Studio. We also discuss common problems and their resolutions. We then explore administration and operational activities dealing with packages, including security, access path management (where we discuss the newly introduced package stability feature to allow for a seamless fallback), and management and performance aspects. The appendixes include useful queries and mention tools for managing packages effectively.

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The Easy, Visual Way to Master IBM® DB2 for Linux®, UNIX®, and Windows®—Fully Updated for Version 9.5 IBM DB2 9 and DB2 9.5 provide breakthrough capabilities for providing Information on Demand, implementing Web services and Service Oriented Architecture, and streamlining information management. Understanding DB2: Learning Visually with Examples, Second Edition, is the easiest way to master the latest versions of DB2 and apply their full power to your business challenges.

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Written by four IBM DB2 experts, this book introduces key concepts with dozens of examples drawn from the authors' experience working with DB2 in enterprise environments. Thoroughly updated for DB2 9.5, it covers new innovations ranging from manageability to performance and XML support to API integration. Each concept is presented with easy-to-understand screenshots, diagrams, charts, and tables. This book is for everyone who works with DB2: database

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administrators, system administrators, developers, and consultants. With hundreds of well-designed review questions and answers, it will also help professionals prepare for the IBM DB2 Certification Exams 730, 731, or 736. Coverage includes Choosing the right version of DB2 for your needs Installing and configuring DB2 Understanding the DB2 environment, instances, and databases Establishing client and server connectivity Working with database objects Utilizing

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Creating Blueprints for
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the Subcommittee on
Technology of the
Committee on Science, U.S.
House of Representatives,
One Hundred Fourth
Congress, Second Session,
May 14, 1996

DB2 SQL Tuning Tips for
z/OS Developers