

## Application Prgramming And Sql Guide

*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 IEM DB2 Universal Database Version 8 for z/OS offers enterprises unprecedented opportunities to integrate information, deliver it on demand, and manage it simply 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 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 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.*

*While many architects use PHP for projects, they are often not aware of the power of PHP in creating enterprise-level applications. This book covers the latest version of PHP - version 5 -- and focuses on its capabilities within a multi-tier application framework. It contains numerous coding samples and commentaries on them. A chapter discusses object orientation in PHP as it applies to the multi-tier architecture and other chapters discuss HTTP and SOAP, the two communication protocols most useful in tying together multiple layers. There is also coverage of database design and query construction as well as information about tricks you can use in generating user interfaces. Covers PHP as it relates to developing software in a multi-tier environment—a crucial aspect of developing robust software with low cost and ease of use as design goals. Makes extensive use of Simple Object Access Protocol (SOAP) and Web Services as implemented in PHP and NuSOAP. Shows precisely how to make use of the InnoDB table type newly available in MySQL. InnoDB supports true referential integrity and row-level locking. An application example (a multi-currency bookkeeping application) runs throughout the book, showing various PHP capabilities as well as the database interaction.*

*A comprehensive Perl reference 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).*

*IBM® DB2® Version 10.1 for z/OS® (DB2 10 for z/OS or just DB2 10 throughout this book) is the fourteenth release of DB2 for MVSTM. It brings improved performance and synergy with the System z® hardware and more opportunities to drive business value in the following areas: Cost savings and compliance through optimized innovations DB2 10 delivers value in this area by achieving up to 10% CPU savings for traditional workloads and up to 20% CPU savings for nontraditional workloads, depending on the environments. Synergy with other IBM System z platform components reduces CPU use by taking advantage of the latest processor improvements and z/OS enhancements. Streamline security and regulatory compliance through the separation of roles between security and data administrators, column level security access, and added auditing capabilities. Business insight innovations Productivity improvements are provided by new functions available for pureXML®, data warehousing, and traditional online TP applications Enhanced support for key business partners that allow you to get more from your data in critical business disciplines like ERP Bitemporal support for applications that need to correlate the validity of data with time. Business resiliency innovations Database on demand capabilities to ensure that information design can be changed dynamically, often without database outages DB2 operations and utility improvements enhancing performance, usability, and availability by exploiting disk storage technology. The DB2 10 environment is available either for brand new installations of DB2, or for migrations from DB2 9 for z/OS or from DB2 UDB for z/OS Version 8 subsystems. This IBM Redbooks® publication introduces the enhancements made available with DB2 10 for z/OS. The contents help you understand the new functions and performance enhancements, start planning for exploiting the key new capabilities, and justify the investment in installing or migrating or skip migrating to DB2 10.*

*DB2 9 for z/OS: Packages Revisited*

*Application Programming Guide*

*IBM DATABASE 2 Version 2*

*IBM DATABASE 2, Version 3, DB2*

*Multi-Tier Application Programming with PHP*

**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.

IBM's definitive DB2 UDB V7.1 application development reference and exam study guide for the OS/390 and z/OS platforms An official IBM self-study guide for the DB2 UDB V7.1 Family Application Development Exam (#514) Expert DB2 programming tips, techniques, and guidelines from application development experts Covers data structures, SQL, stored procedures, programming/language environments, debugging, tuning, and more CD-ROM contains complete DB2 application development sample exam The definitive, authoritative guide to DB2 OS/390 application development certification Covers data structures, SQL, stored procedures, programming/language environments, debugging, tuning, and much more Includes a full section on object-relational programming and other advanced techniques Sample test questions help you prepare for the IBM DB2 UDB V7.1 Family Application Development Exam (#514) About the CD The CD-ROM included with this book contains a complete DB2 UDB V7.1 Family Application Development Exam (#514) sample exam. IBM DB2 UDB Version 7.1 for OS/390 and z/OS delivers unparalleled performance, scalability, and reliability in today's enterprise business environments. Now, there's a complete, authoritative guide to developing applications with DB2 UDB V7.1 in both OS/390 and z/OS environments--and preparing for the IBM DB2 UDB V7.1 Family Application Development Exam (#514). This comprehensive day-to-day guide to DB2 UDB application development is also the only book that delivers the depth of knowledge professionals need to pass IBM's challenging application development exam for the OS/390 and z/OSplatforms. IBM Gold Consultant Susan Lawson presents hundreds of useful tips, practical techniques, and expert guidelines for every facet of DB2 UDB application development and every stage of the development process for both OS/390 and z/OS platforms Coverage includes: Foundations for effective DB2 development, including an overview of the DB2 UDB product family and DB2 for OS/390 data structures SQL: basic concepts and coding techniques through advanced OLAP features, star schemas, and star joins Stored procedures, including the SQL procedure language and IBM's Stored Procedure Builder Best practices for application testing, debugging, and performance tuning The full range of DB2 development tools, including ODBC/CLI, Java(tm), COBOL, C, C++, REXX, CAF, CICS, and RRSAF Object-relational programming, including user-defined functions, user-defined data types, and triggers In-depth coverage of locking and concurrency Whether you're developing for DB2 UDB V7.1 in an OS/390 or z/OS environment, managing DB2 UDB V7.1 application development, preparing for DB2 UDB V7.1 Family Application Development, or all three, DB2 UDB for OS/390 Version 7.1 Application Certification Guide will be your single most valuable resource. IBM DB2 Series

Oracle Database Application Developer's Guide - Fundamentals is intended for programmers developing new applications or converting existing applications to run in the Oracle Database environment. This book will also be valuable to systems analysts, project managers, and others interested in the development of database applications. To use this book, you need a working knowledge of application programming, and that you are acquainted with using the Structured Query Language (SQL) to access information in relational database systems. Some sections of this guide assume a familiar with object-oriented programming.

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

DB2 Developer's Guide

Organizational and Technical Measures for Performance Optimization

The Ultimate Expert Guide to Learn SQL Programming Step by Step

Efficient Software Development with DB2 for OS/390

DB2 Universal Database for OS/390 Version 7.1 Certification Guide

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.

Application Programming and SQL GuideIBM DATABASE 2 Version 2Application Programming and SQL GuideDATABASE 2 for OS/390, Version 5 Application Programming and SQL GuideIBM DATABASE 2 Version 2Application Programming and SQL Guide Release 3IBM DATABASE 2, Version 3, DB2Application Programming and SQL GuideOracle Web Application Programming for PL/SQL DevelopersPrentice Hall Professional

IBM® DB2® 9 and 10 for z/OS® have added functions in the areas of security, regulatory compliance, and audit capability that provide solutions for the most compelling requirements. DB2 10 enhances the DB2 9 role-based security with additional administrative and other finer-grained authorities and privileges. This authority granularity helps separate administration and data access that provide only the minimum appropriate authority. The authority profiles provide better separation of duties while limiting or eliminating blanket authority over all aspects of a table and its data. In addition, DB2 10 provides a set of criteria for auditing for the possible abuse and overlapping of authorities within a system. In DB2 10, improvements to security and regulatory compliance focus on data retention and protecting sensitive data from privileged users and administrators. Improvements also help to separate security administration from database administration. DB2 10 also lets administrators enable security on a particular column or particular row in the database complementing the privilege model. This IBM Redbooks® publication provides a detailed description of DB2 10 security functions from the implementation and usage point of view. It is intended to be used by database, audit, and security administrators.

This IBM® Redpaper™ publication shows you how to speed up batch jobs by splitting them into near-identical instances (sometimes referred to as ). It is a practical guide, which is based on the authors' testing experiences with a batch job that is similar to those jobs that are found in customer applications. This guide documents the issues that the team encountered and how the issues were resolved. The final tuned implementation produced better results than the initial traditional implementation. Because job splitting often requires application code changes, this guide includes a description of some aspects of application modernization you might consider if you must modify your application. The authors mirror the intended audience for this paper because they are specialists in IBM DB2®, IBM Tivoli® Workload Scheduler for z/OS®, and z/OS batch performance.

DB2 9 for z/OS: Using the Utilities Suite

Database Application Programming with Linux

Oracle Web Application Programming for PL/SQL Developers

Oracle Database application Developer's study Guide

DB2 for z/OS Version 8 DBA Certification Guide

*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.*

*Consist Advanced Development Solution (ConsistADS) is an end-to-end conversion solution that conversion and transparency methods for migrating to IBM® DB2® for z/OS® software. The solution includes DB2 for z/OS and several DB2 tools as part of the package. This IBM Redpaper™ publication explains the Natural and Adabas conversion to DB2 for z/OS by using ConsistADS. It includes prerequisite technical assessment requirements and conversion challenges. It also describes a real customer conversion scenario that was provided by the IBM Business Partners that facilitated these conversions for customers.*

*DB2® packages were introduced with DB2 V2.3 in 1993. During the 15 years that have elapsed, a 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) 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 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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**Security Functions of IBM DB2 10 for z/OS**

**DB2 Universal Database for OS/390**

**Data Studio and DB2 for z/OS Stored Procedures**

**DB2 Universal Database Application Programming Interface (API) Developer's Guide**

Time to market, flexibility, and cost reduction are among the top concerns common to all IT executives. If significant resource investments are placed in mature systems, IT organizations need to balance old and new technology. Older technology, such as non-IBM pre-relational databases, is costly, inflexible, and non-standard. Users store their information on the mainframe and thus preserve the skills and qualities of service their business needs. But users also benefit from standards-based modernization by migrating to IBM® DB2® for z/OS®. With this migration, users deliver new application features quickly and respond to changing business requirements more effectively. When migrating, the main decision is choosing between conversion and re-engineering. Although the rewards associated with rebuilding mature applications are high, so are the risks and customers that are embarking on a migration need that migration done quickly. In this IBM Redbooks® publication, we examine how to best approach the migration process by evaluating the environment, assessing the application as a conversion candidate, and identifying suitable tools. This publication is intended for IT decision makers and database administrators who are considering migrating their information to a modern database management system.

Oracle Corporation has broadened its development platform, integrating open standards such as Java and XML into the heart of the Oracle 8i database. This extended programming environment continues to exploit the qualities of scalability, reliability and efficiency of the world's most successful data management software, but at the same time it provides new challenges and opportunities to programmers. Implementing Practical DB2 Applications provides a concise source of information for the development and implication of applications using IBM's DB2 relational database package in the MVS environment. The book describes the flagship DB2 version, namely that implemented for the MVS operating system environment where DB2 operates with the MVS transaction processing subsystems: CICS, IMS and TSO. The book is intended for both beginners and experts. It describes how the various components of SQL are used to provide practical applications. Containing tips and notes that were discovered the hard way - through hands on experience - this book will be welcomed by all those looking to implement applications in DB2.

This guide combines the proven tutorial approach to teaching SQL with a collection of major SQL statements with example code for five major database systems: SQL Server, Oracle, DB2, MySQL and Access.

Fortran Application Programming Guide

DATABASE 2 for OS/390, Version 5 Application Programming and SQL Guide

DB2 11 for z/OS Technical Overview

Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS

A Solutions-Oriented Approach to Learning the Foundation and Capabilities of DB2 for z/OS

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.

IBM® continues to enhance the functionality, performance, availability, and ease of use of IBM DB2® utilities. This IBM Redbooks® publication is the result of a project dedicated to the current DB2 Version 9 Utilities Suite product. It provides information about introducing the functions that help set up and invoke the utilities in operational scenarios, shows how to optimize concurrent execution of utilities and collect information for triggering utilities execution, and provides considerations about partitioning. It also describes the new functions provided by several utilities for SHARE LEVEL CHANGE execution, which maximize availability and the exploitation of DFSMS constructs by the BACKUP and RESTORE SYSTEM utilities. This book concentrates on the enhancements provided by DB2 UDB for z/OS Version 8 and DB2 for z/OS Version 9. It implicitly assumes a basic level of familiarity with the utilities provided by DB2 for z/OS and OS/390® Version 7.

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

Demonstrates the skills, techniques, and tools required for programming and maintaining database applications in a Linux environment.

Application Programming and SQL Guide Release 3

DB2 10 for z/OS Technical Overview

The Guru's Guide to SQL Server Stored Procedures, XML, and HTML

HP SQL Pascal

DB2 10 for z/OS Performance Topics

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 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 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 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 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

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 RRSAP \* Write proficient, code-optimized DB2 SQL \* Implement efficient dynamic and static SQL applications \* Use binding and rebinding to optimize applications \* Efficiently create, administer, and manage DB2 databases and applications \* Design, build, and populate efficient DB2 database structures for online, batch, and data warehousing \* Improve the performance of DB2 subsystems, databases, utilities, programs, and SQL stat DB2 Developer's Guide, Sixth Edition builds on the unique approach that has made previous editions so valuable. It combines: \* Condensed, easy-to-read coverage of all essential topics: information otherwise scattered through dozens of documents \* Detailed discussions of crucial details within each topic \* Expert, field-tested implementation advice \* Sensible examples

DB2® 10 for z/OS can reduce the total DB2 CPU demand from 5-20%, compared to DB2 9, 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.

Have you been searching for the programming language that will provide all your needs? Have you looked at SQL and believe that it is the answer for you? Do you need a concise and straightforward guide that will teach you quickly and efficiently? If you have need of a programming language that can manage relational databases and execute numerous operations from the data in them, then SQL is likely to be the ideal one for you. And with SQL you get a book that will take you from the basic principles to an in-depth understanding in less time than you might imagine. Inside SQL: The Ultimate Expert Guide to Learn SQL Programming Step by Step, you will find that it is easier to learn this programming language than ever before, with chapters that explore: • How to access databases using ODBC and JDBC • Quick and easy mapping • How to combine JSON and SQL • Ways to develop procedural capabilities • Simplifying advanced interface methods • Tuning and compiling made easy • And lots more... Even if you have no previous experience with SQL, this book will provide you with a solid platform of knowledge and comes with diagrams and visualizations to make life even easier. With it you will quickly and effortlessly be programming with SQL and building on your knowledge with every step. Scroll up and click Add to Cart for your copy now!

Implementing Practical DB2 Applications

Extremely pureXML in DB2 10 for z/OS

SQL

Application Programming and SQL Guide

Streamline Business with Consolidation and Conversion to DB2 for z/OS

*A developer's one source for a detailed road map to the Visual Basic Library for SQL Server. This book explains the leading techniques for using Visual Basic to create front ends for SQL Server. It discusses the various architectures and approaches to data access, provides information on commonly encountered problems, and includes instructive sample code.*

*Jürgen 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-Großrechnerbereich und Client/Server-Umfeld sichergestellt werden können. Der Vorzug des Buches ist es, daß sowohl die technischen Aspekte (Performance, Tuning) als auch organisatorische Maßnahmen zur Optimierung (wirtschaftliche Performance) dargestellt werden. Damit eignet sich das Buch insbesondere für den Einsatz in Unternehmen, die DB2 kostengünstig und sicher einsetzen wollen. Bei der Arbeit in mehreren großen produktiven DB2-Umgebungen hat sich gezeigt, daß die meisten Performance-Probleme entweder erst ab einer bestimmten kritischen Transaktionslast oder bei besonders umfangreichen Tabellengrößen auftreten. Um diese Probleme nicht erst in der Produktionsumgebung, sondern bereits während der Softwareentwicklung erkennen und lösen zu können, sind eine Reihe von Maßnahmen*

*The DB2® pureXML® feature offers sophisticated capabilities to store, process and manage XML data in its native hierarchical format. By integrating XML data intact into a relational database structure, users can take full advantage of DB2's relational data management features. In this IBM® Redbooks® publication, we document the steps for the implementation of a simple but meaningful XML application scenario. We have chosen to provide samples in COBOL and Java™ language. The purpose is to provide an easy path to follow to integrate the XML data type for the traditional DB2 for z/OS® user. We also add considerations for the data administrator and suggest best practices for ease of use and better performance.*

*Stored procedures can provide major benefits in the areas of application performance, code re-use, security, and integrity. DB2® has offered ever-improving support for developing and operating stored procedures. This IBM® Redpaper™ publication is devoted to tools that can be used for accelerating the development and debugging process, in particular to the stored procedure support provided by the latest and fastest evolving IBM product: Data Studio. We discuss topics related to handling stored procedures across different platforms. We concentrate on how to use tools for deployment of stored procedures on z/OS®, but most considerations apply to the other members of the DB2 family. This paper is a major update of Part 6, "Cool tools for an easier life," of the IBM Redbooks® publication DB2 9 For z/OS Stored Procedures: Through the CALL and Beyond, SG24-7604.*

*An Introduction to DB2 for OS/390 Version 7*

*Practical Guide for Architects and Programmers*

*Converting Adabas to IBM DB2 For z/OS with ConsistADS*

*SQL/400 Developer's Guide*

*DB2 9 for z/OS Performance Topics*

-- Critical part of DB2 -- Application Programming Interface (API) is a set of routines, protocols, and tools for building software applications. A good API makes it easier to develop a program by providing all the building blocks. A programmer puts the blocks together. -- First comprehensive reference -- This will be the first book available for DB2 Universal Database application developers that want to

Application programming Interface functions that are provided with DB2. -- DB2 Market Share -- IBM's DB2 database took the lead in the database market in license revenue for 1998. Now controlling 32.3% of the market.

Hitchhiker's Guide to Visual Basic & SQL Server

DB2 Universal Database for OS/390 V7.1 Application Certification Guide

Introduction to the New Mainframe: IBM z/VSE Basics

Optimizing System z Batch Applications by Exploiting Parallelism

DB2