
Cobol Db2 Programming Guide

DB2 for Z/OS Application Programming Topics
DB2 Universal Database for OS/390 V7.1 Application Certification Guide
DB2 Developer's Guide
COBOL and Visual Basic on .NET
Batch Modernization on z/OS
Db2 Sql 75+ Tuning Tips for Developers
Embedded SQL for DB2
Beginning COBOL for Programmers
Master the Power of the IBM Hybrid Data Server
IBM Db2 11.1 Certification Guide
The REXX Handbook
Who Knew You Could Do That with RPG IV? Modern RPG for the Modern Programmer
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Sams Teach Yourself COBOL in 24 Hours
External Procedures, Triggers, and User-Defined Functions on IBM DB2 for i
Through the Call and Beyond
DB2 SQL Tuning Tips for z/OS Developers
DB2 Certification Guide for Common Servers
A Practical Guide to SCLM and SCLM Advanced Edition
A Solutions-Oriented Approach to Learning the Foundation and Capabilities of DB2 for z/OS
A Solutions-Oriented Approach to Learning the Foundation and Capabilities of DB2 for Z/OS
Year 2000 Mainframe Survival Guide
DB2 Developer's Guide
A Guide To Db2
DB2 pureXML Cookbook

DB2 Handbook for DBAs
OS/2 Presentation Manager Programming for COBOL Programmers
DB2 9 for Z/OS Stored Procedures
Application Design and Programming
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Extremely pureXML in DB2 10 for z/OS
IBM Mainframe Developer Training and Reference Guide

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DANIELA DECKER

DB2 for Z/OS Application Programming Topics Prentice Hall
IBM® Rational® Application Developer for WebSphere® Software
V7.0 (for short, Rational Application Developer) is the full function
Eclipse 3.2 based development platform for developing Java™ 2
Platform Standard Edition (J2SETM) and Java 2 Platform
Enterprise Edition (J2EETM) applications with a focus on
applications to be deployed to IBM WebSphere Application Server
and IBM WebSphere Portal. Rational Application Developer
provides integrated development tools for all development roles,
including Web developers, Java developers, business analysts,
architects, and enterprise programmers. Rational Application

Developer is part of the IBM Rational Software Delivery Platform
(SDP), which contains products in four life cycle categories: -
Architecture management, which includes integrated
development environments (Application Developer is here) -
Change and release management - Process and portfolio
management - Quality management This IBM Redbooks®
publication is a programming guide that highlights the features
and tooling included with Rational Application Developer V7.0.
Many of the chapters provide working examples that
demonstrate how to use the tooling to develop applications, as
well as achieve the benefits of visual and rapid application
development. This publication is an update of Rational
Application Developer V6 Programming Guide, SG24-6449. This
book consists of six parts: - Introduction to Rational Application
Developer - Develop applications - Test and debug applications -

Deploy and profile applications - Team development - Appendixes
DB2 Universal Database for OS/390 V7.1 Application Certification Guide Pearson Education

The DB2 Certification Handbook is a complete self-study guide for the latest release of DB2 relational database, version 2 Common Server. An ITSO IBM Redbook which provides in-depth coverage of two primary database job functions: database developer and database administrator. Also includes sample test questions and gives real-world examples and exercises.

DB2 Developer's Guide Apress

If you are looking for a practical DB2 book that focuses on application programming, this is the book for you. Written from the programmer's point of view, it will quickly teach you what you need to know to access and process DB2 data in your COBOL programs using embedded SQL. This second edition has been thoroughly updated and expanded to make it even more valuable to the programmer who is slugging it out on the job. You will learn: the critical DB2 concepts that let you understand how DB2 works; the basic DB2 coding features you will use in every program you write; how to use version 4 enhancements like outer joins and explicit syntax for inner joins; how to work with column functions, scalar functions, and subqueries to manipulate data; how to use error handling techniques and ROLLBACK to protect DB2 data; why program efficiency is vital under DB2... and more.

COBOL and Visual Basic on .NET Prentice Hall Professional

This is a comprehensive .NET-retraining guide written for the COBOL/CICS mainframe programmer from the perspective of a former COBOL/CICS programmer.

Batch Modernization on z/OS Lulu.com

"The accompanying CD-ROM contains a complete trial version of IBM DB2 Universal Database Personal Edition version 8.1, for Windows operating environments, evaluation copy"--Back cover.

Db2 Sql 75+ Tuning Tips for Developers 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 RRSF * Write proficient, code-optimized DB2 SQL * Implement efficient dynamic and static SQL applications * Use binding and rebinding to optimize applications * Efficiently create, administer, and manage DB2 databases and applications * Design, build, and populate efficient DB2 database structures for online, batch, and data warehousing * Improve the performance of DB2 subsystems, databases, utilities, programs, and SQL stat DB2 Developer's Guide, Sixth Edition builds on the unique approach that has made previous editions so valuable. It combines: * Condensed, easy-to-read coverage of all essential topics: information otherwise scattered through dozens of documents * Detailed discussions of crucial details within each topic * Expert, field-tested implementation advice * Sensible examples
 Pearson Education India

A database administrator's guide to DB2 implementation in large-

scale or complex applications. By explaining important technical issues underlying DB2 constructs, Werman gives programmers insight into the trade-offs involved in successful program strategies for complicated applications.

Embedded SQL for DB2 IBM Redbooks

The #1 choice of professional COBOL programmers because it shows how to design, code, test, and maintain structured COBOL programs on the IBM mainframes (or enterprise systems), this book also presents the IBM products that every mainframe programmer needs to know including TSO, ISPF, OS/390 JCL, VSAM Access Method Services, CICS, and DB2.

Beginning COBOL for Programmers IBM Redbooks

IBM's definitive DB2 UDB V7.1 application development reference and exam study guide for the OS/390 and z/OS platforms An official IBM self-study guide for the DB2 UDB V7.1 Family Application Development Exam (#514) Expert DB2 programming tips, techniques, and guidelines from application development experts Covers data structures, SQL, stored procedures, programming/language environments, debugging, tuning, and more CD-ROM contains complete DB2 application development sample exam The definitive, authoritative guide to DB2 OS/390 application development certification Covers data structures, SQL, stored procedures, programming/language environments, debugging, tuning, and much more Includes a full section on object-relational programming and other advanced techniques Sample test questions help you prepare for the IBM DB2 UDB V7.1 Family Application Development Exam (#514) About the CD The CD-ROM included with this book contains a complete DB2 UDB V7.1 Family Application Development Exam (#514) sample

exam. IBM DB2 UDB Version 7.1 for OS/390 and z/OS delivers unparalleled performance, scalability, and reliability in today's enterprise business environments. Now, there's a complete, authoritative guide to developing applications with DB2 UDB V7.1 in both OS/390 and z/OS environments--and preparing for the IBM DB2 UDB V7.1 Family Application Development Exam (#514). This comprehensive day-to-day guide to DB2 UDB application development is also the only book that delivers the depth of knowledge professionals need to pass IBM's challenging application development exam for the OS/390 and z/OS platforms. IBM Gold Consultant Susan Lawson presents hundreds of useful tips, practical techniques, and expert guidelines for every facet of DB2 UDB application development and every stage of the development process for both OS/390 and z/OS platforms Coverage includes: Foundations for effective DB2 development, including an overview of the DB2 UDB product family and DB2 for OS/390 data structures SQL: basic concepts and coding techniques through advanced OLAP features, star schemas, and star joins Stored procedures, including the SQL procedure language and IBM's Stored Procedure Builder Best practices for application testing, debugging, and performance tuning The full range of DB2 development tools, including ODBC/CLI, Java(tm), COBOL, C, C++, REXX, CAF, CICS, and RRSF Object-relational programming, including user-defined functions, user-defined data types, and triggers In-depth coverage of locking and concurrency Whether you're developing for DB2 UDB V7.1 in an OS/390 or z/OS environment, managing DB2 UDB V7.1 application development, preparing for DB2 UDB V7.1 Family Application Development, or all three, DB2 UDB for OS/390 Version 7.1

Application Certification Guide will be your single most valuable resource. IBM DB2 Series

Master the Power of the IBM Hybrid Data Server DB2 for the COBOL Programmer

Beginning COBOL for Programmers is a comprehensive, sophisticated tutorial and modular skills reference on the COBOL programming language for established programmers. This book is for you if you are a developer who would like to—or must—add COBOL to your repertoire. Perhaps you recognize the opportunities presented by the current COBOL skills crisis, or are working in a mission critical enterprise which retains legacy COBOL applications. Whatever your situation, Beginning COBOL for Programmers meets your needs as an established programmer moving to COBOL. Beginning COBOL for Programmers includes comprehensive coverage of ANS 85 COBOL features and techniques, including control structures, condition names, sequential and direct access files, data redefinition, string handling, decimal arithmetic, subprograms, and the report writer. The final chapter includes a substantial introduction to object-oriented COBOL. Benefiting from over one hundred example programs, you'll receive an extensive introduction to the core and advanced features of the COBOL language and will learn to apply these through comprehensive and varied exercises. If you've inherited some legacy COBOL, you'll be able to grasp the COBOL idioms, understand the constructs, and recognize what's happening in the code you're working with. Today's enterprise application developers will find that COBOL skills open new—or old—doors, and this extensive COBOL reference is the book to help you acquire and develop

your COBOL skills.

IBM Db2 11.1 Certification Guide Prentice Hall

This book provides a REXX tutorial combined with practical tips on programming methods and application development. Includes practical coverage of: programming for good performance; effective debugging techniques; user interface design strategies; system dependencies and interfaces; program maintenance guidelines; REXX interpreter and compiler implementations.

The REXX Handbook IBM Press

A time-saving guide for solving all kinds of programming problems, this book picks up where other programming codebooks leave off--assuming programmers know the basics, and providing help with more complex programming problems. Each subject in the book is treated in detail, with numerous code samples that can be interfaced with all high-level languages.

Who Knew You Could Do That with RPG IV? Modern RPG for the Modern Programmer IBM Redbooks

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).

DB2 for the COBOL Programmer McGraw-Hill Companies

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

SQL/400 Developer's Guide McGraw-Hill Companies

This is a guide designed to familiarize users with the DB2 standard while helping to optimize their use of the technology.

Sams Teach Yourself COBOL in 24 Hours IBM Redbooks

This excellent tutorial provides all the necessary information to develop, test and implement COBOL application programs that access DB2 data through embedded SQL statements. Detailed instructions describe how to design efficient SQL/COBOL applications in a DB2 production setting. Every chapter features a summary of key concepts, review questions and answers plus programming workshops.

External Procedures, Triggers, and User-Defined Functions on IBM DB2 for i IBM Redbooks

DB2 pureXML Cookbook Master the Power of the IBM Hybrid Data Server Hands-On Solutions and Best Practices for Developing and Managing XML Database Applications with DB2 More and more database developers and DBAs are being asked to develop applications and manage databases that involve XML data. Many are utilizing the highly praised DB2 pureXML technology from IBM. In the DB2 pureXML Cookbook, two leading experts from IBM offer the practical solutions and proven code samples that database professionals need to build better XML solutions faster. Organized by task, this book is packed with more than 700 easy-to-adapt “recipe-style” examples covering the entire application lifecycle—from planning and design through coding, optimization, and troubleshooting. This extraordinary library of recipes includes more than 250 XQuery and SQL/XML queries. With the authors’ hands-on guidance, you’ll learn how to combine pureXML

“ingredients” to efficiently perform virtually any XML data management task, from the simplest to the most advanced. Coverage includes pureXML in DB2 9 for z/OS and DB2 9.1, 9.5, and 9.7 for Linux, UNIX, and Windows Best practices for designing XML data, applications, and storage objects Importing, exporting, loading, replicating, and federating XML data Querying XML data, from start to finish: XPath and XQuery data model and languages, SQL/XML, stored procedures, UDFs, and much more Avoiding common errors and inefficient XML queries Converting relational data to XML and vice versa Updating and transforming XML documents Defining and working with XML indexes Monitoring and optimizing the performance of XML queries and other operations Using XML Schemas to constrain and validate XML documents XML application development—including code samples for Java, .NET, C, COBOL, PL/1, PHP, and Perl

Through the Call and Beyond IBM.Com/Redbooks

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.

DB2 SQL Tuning Tips for z/OS Developers Vervante

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.

DB2 Certification Guide for Common Servers Prentice Hall Professional

Procedures, triggers, and user-defined functions (UDFs) are the key database software features for developing robust and distributed applications. IBM Universal Database™ for i (IBM DB2® for i) supported these features for many years, and they were enhanced in V5R1, V5R2, and V5R3 of IBM® OS/400® and V5R4 of IBM i5/OSTM. This IBM Redbooks® publication includes several of the announced features for procedures, triggers, and UDFs in V5R1, V5R2, V5R3, and V5R4. This book includes suggestions, guidelines, and practical examples to help you effectively develop IBM DB2 for i procedures, triggers, and UDFs. The following topics are covered in this book: External stored procedures and triggers Java procedures (both Java Database Connectivity (JDBC) and Structured Query Language for Java (SQLJ)) External triggers External UDFs This publication also offers examples that were developed in several programming languages, including RPG, COBOL, C, Java, and Visual Basic, by using native and SQL data access interfaces. This book is part of the original IBM Redbooks publication, *Stored Procedures, Triggers, and User-Defined Functions on DB2 Universal Database for iSeries*, SG24-6503-02, that covered external procedures, triggers, and functions, and also SQL procedures, triggers, and functions. All of the information that relates to external routines

was left in this publication. All of the information that relates to SQL routines was rewritten and updated. This information is in the new IBM Redbooks publication, SQL Procedures, Triggers, and Functions on IBM DB2 for i, SG24-8326. This book is intended for

anyone who wants to develop IBM DB2 for i procedures, triggers, and UDFs. Before you read this book, you need to know about relational database technology and the application development environment on the IBM i server.

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