

# Cobol Db2 Programming Guide

DB2  
 DB2 Handbook for DBAs  
 IBM Db2 11.1 Certification Guide  
 DB2 9 for Z/OS Stored Procedures  
 A Guide for the Reformed Mainframe Programmer  
 IBM Problem Determination Tools for z/OS  
 DB2 Certification Guide for Common Servers  
 Through the Call and Beyond  
 Computing Resources of the Division of Computer Research and Technology  
 Batch Modernization on z/OS  
 Murach's Mainframe COBOL  
 A Practical Guide to SCLM and SCLM Advanced Edition  
 A Solutions-Oriented Approach to Learning the Foundation and Capabilities of DB2 for z/OS  
 Explore techniques to master database programming and administration tasks in IBM Db2  
 OS/2 Presentation Manager Programming for COBOL Programmers  
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 Embedded SQL for DB2

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## **CASSIDY MIDDLETON**

*DB2* Prentice Hall

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.

[DB2 Handbook for DBAs](#) IBM Redbooks

This book will teach you the basic information and skills you need to develop applications on IBM mainframe computers running z/OS. The instruction, examples and sample programs in this book are a fast track to becoming productive as a developer in the IBM mainframe environment as quickly as possible. The coverage includes JCL, MVS Utilities, COBOL, VSAM, IMS, DB2 and CICS. The content of this book is easy to read and digest, well organized and focused on honing real job skills. Acquiring these skills is a key step in mastering IBM application development so you'll be ready to perform effectively on an application development team.

*IBM Db2 11.1 Certification Guide* McGraw-Hill Companies

This IBM® Redbooks® publication provides information about installation and migration changes to be aware of if you are responsible for migrating

systems from IBM z/OS® V1R10, z/OS V1R11, and z/OS V1R12 to z/OS V1R13. It also highlights actions that are needed to prepare for the installation of z/OS V1R12, including ensuring driving system and target system requirements are met and coexistence requirements are satisfied. There is a special focus on identifying new migration actions that must be performed for selected elements when migrating to z/OS V1R13. The book addresses the following topics: - z/OS V1R13 overview, z/OS V1R13 installation, managing volume backups with fast replication, XCF enhancements, console service enhancements - DFSMSdftp, DFSMSoam, DFSMSHsm, ISPF enhancements, DFSMSrmm enhancements, establishing IBM RACF® security for RRSF TCP/IP connections - GRS enhancements, BCP supervisor, contents supervisor and RSM updates, improved channel recovery, Service aids enhancements, System Logger - SMF - z/OS UNIX System Services, z/OS UNIX-related applications, RRS, z/OS Management Facility, z/OS HCD and HCM, C language - Storage management enhancements, Common Information Model, Predictive Failure Analysis, Extended Address Volume, BCPii, Capacity Provisioning - System SSL enhancements, UNICODE, IBM Language Environment®, SDSF enhancements, JES2 enhancements, JES3 enhancements, IBM RMFTM enhancements - IBM WebSphere® Application Server OEM, z/OSMF, CIM, and Capacity Provisioning setups - BCPii Metal C example

*DB2 9 for Z/OS Stored Procedures* Apress

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.

*A Guide for the Reformed Mainframe Programmer* \*A Wiley-QED Publication

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 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.

*IBM Problem Determination Tools for z/OS* IBM Redbooks

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.

*DB2 Certification Guide for Common Servers* IBM 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.

*Through the Call and Beyond* Packt Publishing Ltd

DB2 for the COBOL Programmer Mike Murach & Associates Incorporated

*Computing Resources of the Division of Computer Research and Technology* Pearson Education

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.

*Batch Modernization on z/OS* IBM Redbooks

"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.

*Murach's Mainframe COBOL* Morgan Kaufmann

Application development is a key part of IBM® i businesses. The IBM i operating system is a modern, robust platform to create and develop applications. The RPG language has been around for a long time, but is still being transformed into a modern business language. This IBM Redbooks® publication is focused on helping the IBM i development community understand the modern RPG language. The world of application development has been rapidly changing over the past years. The good news is that IBM i has been changing right along with it, and has made significant changes to the RPG language. This book is intended to help developers understand what modern RPG looks like and how to move from older versions of RPG to a newer, modern version. Additionally, it covers the basics of Integrated Language Environment® (ILE), interfacing with many other languages, and the best tools for doing development on IBM i. Using modern tools, methodologies, and languages are key to continuing to stay relevant in today's world. Being able to find the right talent for your company is key to your continued success. Using the guidelines and principles in this book can help set you up to find that talent today and into the future. This publication is the result of work that was done by IBM, industry experts, business partners, and some of the original authors of the first edition of this book. This information is important not only for developers, but also business decision makers (CIO for example) to understand that the IBM i is not an 'old' system. IBM i has modern languages and tools. It is a matter of what you choose to do with the IBM i that defines its age.

*A Practical Guide to SCLM and SCLM Advanced Edition* Prentice Hall

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.

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

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

**Explore techniques to master database programming and administration tasks in IBM Db2** System iNetwork

IBM® Problem Determination (PD) Tools consists of a core group of IBM products that are designed to work with compilers and run times to provide a start-to-finish development solution for the IT professional. This IBM Redbooks® publication provides you with an introduction to the tools, guidance for program preparation to use with them, an overview of their integration, and several scenarios for their use. If anabend occurs during testing, Fault Analyzer enables the programmer to quickly and easily pinpoint the abending location and optionally, the failing line of code. Many times, this information is all the programmer requires to correct the problem. However, it might be necessary to delve a little deeper into the code to figure out the problem. Debug Tool allows the programmer to step through the code at whatever level is required to determine where the error was introduced or encountered. After the code or data is corrected, the same process is followed again until no errors are encountered. However, volume testing or testing with multiple terminals is sometimes required to ensure real-world reliability. Workload Simulator can be used to perform this type of testing. After all of the tests are completed, running the application by using Application Performance Analyzer can ensure that no performance bottlenecks are encountered. It also provides a baseline to ensure that future enhancements do not introduce new performance degradation into the application. This publication is intended for z/OS® application developers and system programmers.

*OS/2 Presentation Manager Programming for COBOL Programmers* Apress

DB2 Developer's Guide is the field's #1 go-to source for on-the-job information on programming and administering DB2 on IBM z/OS mainframes. Now, three-time IBM Information Champion Craig S. Mullins has thoroughly updated this classic for DB2 v9 and v10. Mullins fully covers new DB2 innovations including temporal database support; hashing; universal tablespaces; pureXML; performance, security and governance improvements; new data types, and much more. Using current versions of DB2 for z/OS, readers will learn how to: \* Build better databases and applications for CICS, IMS, batch, CAF, and RRSAF \* Write proficient, code-optimized DB2 SQL \* Implement efficient dynamic and static SQL applications \* Use binding and rebinding to optimize applications \* Efficiently create, administer, and manage DB2 databases and applications \* Design, build, and populate efficient DB2 database structures for online, batch, and data warehousing \* Improve the performance of DB2 subsystems, databases, utilities, programs, and SQL stat DB2 Developer's Guide, Sixth Edition builds on the unique approach that has made previous editions so valuable. It combines: \* Condensed, easy-to-read coverage of all essential topics: information otherwise scattered through dozens of documents \* Detailed discussions of crucial details within each topic \* Expert, field-tested implementation advice \* Sensible examples

*DB2 9 for z/OS: Packages Revisited* IBM Redbooks

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

**Application Design and Programming** O ELO FORTE

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.

*A Guide To Db2* Pearson Education

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.

*DB2 pureXML Cookbook* Prentice Hall Professional

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 (J2SE™ ) and Java 2 Platform Enterprise Edition (J2EE™ ) 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  
*SQL/400 Developer's Guide* IBM.Com/Redbooks

Mainframe computers play a central role in the daily operations of many of the world's largest corporations, and batch processing is a fundamental part of the workloads that run on the mainframe. A large portion of the workload on IBM® z/OS® systems is processed in batch mode. Although several IBM Redbooks® publications discuss application modernization on the IBM z/OS platform, this book specifically addresses batch processing in detail. Many different technologies are available in a batch environment on z/OS systems. This book demonstrates these technologies and shows how the z/OS system offers a sophisticated environment for batch. In this practical book, we discuss a variety of themes that are of importance for batch workloads on z/OS systems and offer examples that you can try on your own system. The audience for this book includes IT architects and application developers, with a focus on batch processing on the z/OS platform.

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