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# Db2 Applications Development Handbook

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*Db2 Applications Development Handbook*

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### **DB2 Universal Database V7.1 Application Development** CRC Press

As organizations strive to do more with less, DB2 Enterprise Server Edition V9 for Linux, Unix, and Windows contains innovative features for delivering information on demand and scaling databases to new levels. The table partitioning, newly introduced in DB2 9, and the database partitioning feature provide scalability, performance, and flexibility for data store. The multi-dimension clustering table enables rows with similar values across multiple dimensions to be physically clustered together on disk. This clustering allows for efficient I/O and provides performance gain for typical analytical queries. How are these features and functions different? How do you decide which technique is best for your database needs? Can you use more

than one technique concurrently? This IBM Redbooks publication addresses these questions and more. Learn how to set up and administer database partitioning. Explore the table partitioning function and how you can easily add and remove years of data on your warehouse. Analyze your data to discern how multi-dimensional clustering can drastically improve your query performance.

[Design & Development Guide](#) McGraw-Hill Companies

This book will help you learn the basic and intermediate skills you need to write applications with DB2 11 for z/OS. The instruction, examples and questions/answers in this book are a fast track to becoming productive as quickly as possible. The content is easy to read and digest, well organized and focused on honing real job skills. DB2 11 for z/OS Developer Training and Reference Guide is a key step in the direction of mastering DB2 application development so you'll be ready to perform on a technical DB2 development team.

**Business Value, Planning, and Enterprise Roadmap** IBM

Press

Praise for Service-Oriented Architecture Compass "A comprehensive roadmap to Service-Oriented Architecture (SOA). SOA is, in reality, a business architecture to be used by those enterprises intending to prosper in the 21st century. Decision makers who desire that their business become flexible can jumpstart that process by adopting the best practices and rules of thumb described in SOA Compass." -Bob Laird, MCI IT Chief Architect "The book Service-Oriented Architecture Compass shows very clearly by means of real projects how agile business processes can be implemented using Service-Oriented Architectures. The entire development cycle from planning through implementation is presented very close to practice and the critical success factors are presented very convincingly." - Professor Dr. Thomas Obermeier, Vice Dean of FHDW Bergisch Gladbach, Germany "This book is a major improvement in the field. It gives a clear view and all the key points on how to really face a SOA deployment in today's organizations." -Mario Moreno, IT Architect Leader, Generali France "Service-Oriented Architecture enables organizations to be agile and flexible enough to adopt new business strategies and produce new services to overcome the challenges created by business dynamism today. CIOs have to consider SOA as a foundation of their Enterprise Applications Architecture primarily because it demonstrates that IT aligns to business processes and also because it positions IT as a service enabler and maximizes previous investments on business applications. To understand and profit from SOA, this book provides CIOs with the necessary concepts and knowledge needed to understand and adapt it into

their IT organizations." -Sabri Hamed Al-Azazi, CIO of Dubai Holding, Sabri "I am extremely impressed by the depth and scale of this book! The title is perfect-when you know where you want to go, you need a compass to guide you there! After good IT strategy leads you to SOA, this book is the perfect vehicle that will drive you from dream to reality. We in DSK Bank will use it as our SOA bible in the ongoing project." -Miro Vichev, CIO, DSK Bank, Bulgaria, member of OTP Group "Service-Oriented Architecture offers a pathway to networking of intra- and inter- corporate business systems. The standards have the potential to create far more flexible and resilient business information systems than have been possible in the past. This book is a must-read for those who care about the future of business IT." - Elizabeth Hackenson, CIO, MCI "Service-Oriented Architecture is key to help customers become on demand businesses-a business that can quickly respond to competitive threats and be first to take advantage of marketplace opportunities. SOA Compass is a must-read for those individuals looking to bridge the gap between IT and business in order to help their enterprises become more flexible and responsive." -Michael Liebow, Vice President, Web Services and Service-Oriented Architecture, IBM Business Consulting Services "This book is a welcome addition to SOA literature. It articulates the business case and provides practical proven real-world advice, guidance, tips, and techniques for organizations to make the evolution from simple point-to-point web services to true SOA by addressing such topics as planning, organization, analysis and design, security, and systems management." -Denis O'Sullivan, Fireman's Fund Enterprise Architect Maximize the business value and flexibility of your SOA

deployment In this book, IBM Enterprise Integration Team experts present a start-to-finish guide to planning, implementing, and managing Service-Oriented Architecture. Drawing on their extensive experience helping enterprise customers migrate to SOA, the authors share hard-earned lessons and best practices for architects, project managers, and software development leaders alike. Well-written and practical, Service-Oriented Architecture Compass offers the perfect blend of principles and "how-to" guidance for transitioning your infrastructure to SOA. The authors clearly explain what SOA is, the opportunities it offers, and how it differs from earlier approaches. Using detailed examples from IBM consulting engagements, they show how to deploy SOA solutions that tightly integrate with your processes and operations, delivering maximum flexibility and value. With detailed coverage of topics ranging from policy-based management to workflow implementation, no other SOA book offers comparable value to working IT professionals. Coverage includes SOA from both a business and technical standpoint-and how to make the business case Planning your SOA project: best practices and pitfalls to avoid SOA analysis and design for superior flexibility and value Securing and managing your SOA environment Using SOA to simplify enterprise application integration Implementing business processes and workflow in SOA environments Case studies in SOA deployment After you've deployed: delivering better collaboration, greater scalability, and more sophisticated applications The IBM Press developerWorks® Series is a unique undertaking in which print books and the Web are mutually supportive. The publications in this series are complemented by resources on the developerWorks Web site on

ibm.com. Icons throughout the book alert the reader to these valuable resources.

[A Guide to DB2 Performance for Application Developers](#) McGraw-Hill

The IBM® Midmarket Software Buying and Selling Guide is tailored specifically to help the management and IT staff of small and mid-sized businesses evaluate how the IBM midmarket portfolio can provide simple and cost-effective solutions to common business problems. Along with a midmarket customer focus, this IBM Redpaper™ publication is designed to help IBM teams and Business Partners be more effective in serving small and mid-sized businesses. We illustrate how IBM software for the midmarket can help businesses use the Web to reduce expenses, improve customer service, and expand into new markets. We cover the IBM software offering for the midmarket, which includes what the software does, the platforms it runs on, where to find more information, and how it can help your business become more profitable: - IBM Business Partners often keep a printed copy of this guide in their briefcases for software references - Customers can view this guide online and look up software-value messages and IBM product family offering comparisons - IBM Sales Representatives can print parts of this guide as "leave-behinds" for customers, to give them extra collateral on midmarket software of interest To make sure that you have the latest version of this guide, download it from this web address: <http://www.redbooks.ibm.com/abstracts/redp3975.html?Open> **Enterprise Java Programming with IBM WebSphere** Sams Publishing

DB2 Developer's Guide, Fourth Edition is completely revised and

updated, covering all the new features for Version 6 for OS/390. It includes a special chapter on how changes to the product impact its use. This book clarifies complex DB2 topics, provides performance and procedural advice for implementing well-designed DB2 applications, and describes what DB2 does behind the scenes. An entire chapter on Internet-related features is included.

*DB2 Universal Database for OS/390 Version 7.1 Certification Guide* Prentice Hall Professional

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.

*The Official Guide* Prentice Hall Professional

Now, two leading IBM solution architects show you how to use DB2 to create flexible infrastructures that simplify the construction of any enterprise-class business solution.

**Oracle to DB2 Conversion Guide: Compatibility Made Easy**

Prentice Hall Professional

-- The insider's guide to table structures, cluster configuration, and other optimization opportunities. -- Provides best practices

techniques for installing, configuring, and optimizing DB2 in the Solaris Operating Environment. -- Covers the new Solaris Operating Environment security features to make your databases even more secure! -- Part of the IBM Press DB2 Series. This is the only IBM insider's reference and guidebook for making the most of DB2 in Solaris enterprise environments. Coverage includes: integrating Solaris and DB2 to build more secure database applications; working with DB2's management utilities in a Solaris environment; client/server communications under Solaris; special issues and opportunities associated with running DB2 Universal Database Enterprise Edition under Solaris, and much more! The authors explain configuring Solaris and DB2 failover support and provide expert tips and techniques for DB2/Solaris performance monitoring, optimization, and troubleshooting. If you manage or develop for DB2 on Solaris, this book is critical to your success -- and you can't find it anywhere else!

Prentice Hall Professional

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WebSphere Version 4 Application Development Handbook DB2 Applications Development Handbook

& • Details the JMS API, covering the latest version 1.1, and discusses application development based on IBM WebSphere implementations & • Key coverage on WebSphere MQ, Websphere MQ Event Broker, JMS administration tasks, and

common usage scenarios & & • Examples coding JMS in servlets, portlets, EJBs and communicating with non-JMS applications

*Integrated Solutions with DB2* Prentice Hall Professional

The first start-to-finish guide to IBM's brand-new DB2 Application Developer certification exam! Write DB2 applications using Embedded SQL, ADO, CLI/ODBC, JDBC, SQLJ, Perl DBI, stored procedures, and more! Leverage new DB2 extenders for searching documents, XML composition/decomposition; managing multimedia databases, and more. Complete cross-platform coverage for UNIX, Linux, Windows and OS/2 environments! IBM has just expanded its highly successful DB2 certification program to include a developer's exam -- and this is the first book to offer start-to-finish preparation! The book covers every DB2 Application Developer exam objective, and includes a complete sample exam. Start by reviewing the DB2 client/server environment, comparing the multiple programming interfaces available to DB2 application developers, and understanding when to choose each. Next, walk through the fundamentals of DB2 application development with Embedded SQL, ADO, CLI/ODBC, JDBC, SQLJ, and the Perl DBI. Learn how to create effective stored procedures, and when to use them. Discover how to use DB2 extenders to enhance your application's functionality, adding more effective search features, XML support, multimedia archive management, and more. Steve Sanyal is a Software Developer for the DB2 Universal Database Application Development Team at the IBM Toronto Lab. He specializes in JDBC, SQLJ and CLI/ODBC, and leads IBM's project to develop Java and XML-based performance and troubleshooting tools for DB2. David Martineau is a Staff Software Developer providing technical support for the

DB2 UDB Application Development Team. He has provided sample code for DB2 UDB using interfaces such as ADO, CLI and Net.Data. Michael Kyprianou has worked with DB2 Universal Database and its predecessors since 1995. He is an IBM Advanced Technical Expert in DB2 DRDA and certified in DB2 UDB Database Administration and Application Development. Kevin Gashyna is a DB2 Universal Database application development specialist specializing in DB2 Extenders and Net.Data.

Certification Guide Bookbaby

DB2 Applications Development Handbook McGraw-Hill DB2 Universal Database V8 Application Development Certification Guide Prentice Hall Professional

Computerworld IBM Redbooks

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Inescapable Data FT Press

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.

*DB2 for Solaris* Prentice Hall Professional

& • Everything Java developers need to start building J2EE applications using WebSphere Tools for the WebSphere Application Server & & • Hands-on techniques and case studies: servlets, JSP, EJB, IBM VisualAge for Java, and more & & • Written by IBM insiders for IBM Press

**DB2** McGraw-Hill Companies

The book is an introduction to grid computing, a strategy central to IBM's plans to help organizations succeed through better sharing of resources. It includes case studies which demonstrate how organizations have success with grid computing across a variety of industries.

*DB2 Version 8* John Wiley & Sons

After explaining the underlying database architecture and data consistency mechanisms used by DB2 for Common Servers, the book delves deeply into application development topics such as the fundamentals of writing applications using embedded SQL, CLI functions, and API calls; descriptions of each SQL statement supported by DBS for Common Servers, Version 2.1; descriptions of each CLI (Open Database Connectivity (ODBC)) supported in DB2 for Common Servers, Version 2.1.1; and descriptions of each API function call supported in DB2 for Common Servers, Version 2.1.1.

Rexx Programmer's Reference IGI Global

-- 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 write applications using the 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.

*DB2® Universal Database V8 Application Development*

*Certification Guide, 2nd Edition* IBM Redbooks

This book brings Python, SQL, and Db2 application development together as never before, to show how these three technologies can successfully be used with each other. By reading this book, you will receive: An introduction to Db2 An overview of SQL and how it is used An introduction to Python and the Python libraries/drivers available for Db2 application development A step-by-step guide for setting up a Python-Db2 development environment (on RedHat or Ubuntu Linux) In-depth information on how to structure and build Python applications that interact with Db2 (along with the link to a GitHub site that contains over 70 sample programs and 60 Jupyter Notebooks) Whether you're a Python developer who wants to build applications that work with Db2, or you're a Db2 user who wants to know how to build Python applications that interact with Db2 servers and databases, you'll find this book a must-read.

**Current and Future Trends** Prentice Hall Professional

Inescapable Data: Harnessing the Power of Convergence Preface Overview Greetings. Technology and technological advances are always interesting. The intention of this book is not just to showcase new technologies and their specific values, but rather to examine the special values that emerge when some key technologies are intermixed, and primarily intermixed with many different (usually real-time) sources of data. Data is all around us and it is growing at a furious pace—from cellular-controlled ovens to video-controlled manufacturing to embedded chips in our bodies—and we cannot help but wonder whether the new pervasive wireless technologies will allow for unforeseen power to come from all this gathered data. The Inescapable Data

environment specifically looks for new streams of data to be combined and analyzed against other streams or historical data in an effort to drive higher personal or business value. For example, although it might be interesting to have your child's school record available electronically, it is perhaps more interesting to be able to correlate various achievements and progress against a wide population—and even further interesting to correlate that data against a detailed analysis of his or her medical history. In a more business-oriented example, technology might enable us to track inventory levels better and in real time. However, inventory-level information might be the wrong question to ask? New levels of efficiency appear in the Inescapable Data world because business systems are tied so closely together, across company boundaries, that inventory level no longer becomes the question and is replaced by "are any manufacturing dependencies suggesting date-skew anywhere in our outside supply chain for product X?" In the Inescapable Data world, we allow our business systems to join together throughout a product's value chain—and even perhaps to competitors—for the sake of efficiency and flexibility. Similarly, our personal lives demand continuous connectivity to all the activities that comprise our days. Whether it is communication with customers in different time zones or e-sending to the team a better map to the soccer field, we discover time efficiencies that in turn give us more flexibility. The tools of our business lives have become the exact same tools used in our personal lives, allowing for a convenient blending of activities. Most of this, we believe, is for the good. Some of it brings new worries and exposures. But as notable

Harvard sociologist Nicholas Christakis says, "There is a way in which technology is inexorable, so I doubt there is a way to stop any of this." Intended Audience This book is designed to inform the modern business manager (as well as the techno-curious) about important developments and usage of data-everywhere devices and networks. Our mission is to help a wide range of decision makers learn to spot the emergence of Inescapable Data and capitalize on it appropriately. A wider audience for this book includes individuals from engineering through marketing in high-technology companies who want to be informed of trends outside of their more narrow industry segments. That said, the book is broad enough in scope and written with only a modest assumption of technical understanding so that most adults can understand, appreciate, and possibly value the information. The Interviews as a Foundation Although we consider ourselves knowledgeable regarding computing, networking, and data storage, we wanted to get out on the street and talk firsthand with key people from many different disciplines. We reached out to nearly 50 different executives and experts for one-on-one interviews (the vast majority conducted in person). We wanted to learn what these people are seeing, and then showcase their knowledge in a broader light, supplemented by heavy direct research. The inside front cover of this book identifies the various people whom we interviewed at length to gain a richer understanding of the technology and trends occurring in a variety of industries, thus supplementing our general research. Their thoughts and views assisted in formulating the notions presented throughout this book. © Copyright Pearson Education. All rights reserved.