

## Db2 Sql Pl Guide

**IBM's DB2 Express Edition is one of the most capable of the free database platforms available in today's marketplace. In Beginning DB2, author Grant Allen gets you started using DB2 Express Edition for web sites, desktop applications, and more. The author covers the basics of DB2 for developers and database administrators, shows you how to manage data in both XML and relational form, and includes numerous code examples so that you are never in doubt as to how things work. In this book, you'll find: A friendly introduction to DB2 Express Edition, an industrial-strength, relational database from IBM Dozens of examples so that you are never in doubt as to how things work Coverage of important language interfaces, such as from PHP, Ruby, C#, Python, and more The book is aimed at developers who want a robust database to back their applications.**

**Learn to build web applications with Catalyst, the popular open source web framework based on the Perl programming language. The Definitive Guide to Catalyst: Writing Extensible, Scalable, and Maintainable Perl-Based Web Applications is a definitive guide to Catalyst version 5.8. This book contains Training materials for new and experience programmers. Worked examples and cookbook-style recipes of common web application programming tasks**

**Fundamentals of web application design and best-practice application style**

**Practical, Real-World ITIL Configuration Management—From Start to Finish The IT Infrastructure Library® (ITIL) places the “best practices” in IT operations at your command. ITIL helps you make better technology choices, manages IT more effectively, and drives greater business value from all your IT investments. The core of ITIL is configuration management: the discipline of identifying, tracking, and controlling your IT environment's diverse components to gain accurate and timely information for better decision-making. Now, there's a practical, start-to-finish guide to ITIL configuration management for every IT leader, manager, and practitioner. ITIL-certified architect and solutions provider Larry Klosterboer helps you establish a clear roadmap for success, customize standard processes to your unique needs, and avoid the pitfalls that stand in your way. You'll learn how to plan your implementation, deploy tools and processes, administer ongoing configuration management tasks, refine ITIL information, and leverage it for competitive advantage. Throughout, Klosterboer demystifies ITIL's jargon, illuminates each technique with real-world advice and examples, and helps you focus on the specific techniques that offer maximum business value in your environment. Coverage includes Assessing your current configuration management maturity and setting goals for improvement Gathering and managing requirements to align ITIL with organizational needs Describing the schema of your configuration management database (CMDB) Identifying, capturing, and organizing configuration data Choosing the best tools for your requirements Integrating data and processes to create a unified logical CMDB and configuration management service Implementing pilot projects to demonstrate the value of configuration management and to test your planning Moving from a pilot to wide-scale enterprise deployment Defining roles for deployment and ongoing staffing Leveraging configuration management information: Reporting and beyond Measuring and improving CMDB data accuracy Covers ITIL version 3. Preface xvii Acknowledgments xxi About the Author xxiii Chapter 1: Overview of Configuration Management 1 Part I: Planning for Configuration Management 17 Chapter 2: Gathering and Analyzing Requirements 19 Chapter 3: Determining Scope, Span, and Granularity 37 Chapter 4: Customizing the Configuration Management Process 55 Chapter 5: Planning for Data Population 67 Chapter 6: Putting Together a Useful Project Plan 85 Part II: Implementing Configuration Management 97 Chapter 7: Choosing the Right Tools 99 Chapter 8: Implementing the Process 117 Chapter 9: Populating the Configuration Management Database 127 Chapter 10: Choosing and Running a Pilot Program 137 Chapter 11: Communication and Enterprise Roll Out 149 Part III: Running an Effective Configuration Management System 161 Chapter 12: Building a Configuration Management Team 163 Chapter 13: The Many Uses for Configuration Information 179 Chapter 14: Measuring and Improving CMDB Accuracy 193 Chapter 15: Improving the Business Value of Configuration Management 207 Index 217**

**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 (usuallyreal-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 technocurious) 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.**

**A Practical Approach to Building Successful Stakeholder-based Products**

**A Guide to DB2**

**DB2 pureXML Cookbook**

**A User's Guide to the IBM Product IBM Database 2, a Relational Database Management System for the MVS Environment and Its Companion Products QMF and DXT**

**Understanding DB2 in a Big Data World**

**Getting Started with RACF**

**Mining the Talk**

The Easy, Visual Way to Master IBM® DB2 for Linux®, UNIX®, and Windows®—Fully Updated for Version 9.5 IBM DB2 9 and DB2 9.5 provide breakthrough capabilities for providing Information on Demand, implementing Web services and Service Oriented Architecture, and streamlining information management. Understanding DB2: Learning Visually with Examples, Second Edition, is the easiest way to master the latest versions of DB2 and apply their full power to your business challenges. Written by four IBM DB2 experts, this book introduces key concepts with dozens of examples drawn from the authors' experience working with DB2 in enterprise environments. Thoroughly updated for DB2 9.5, it covers new innovations ranging from manageability to performance and XML support to API integration. Each concept is presented with easy-to-understand screenshots, diagrams, charts, and tables. This book is for everyone who works with DB2: database administrators, system administrators, developers, and consultants. With hundreds of well-designed review questions and answers, it will also help professionals prepare for the IBM DB2 Certification Exams 730, 731, or 736. Coverage includes Choosing the right version of DB2 for your needs Installing and configuring DB2 Understanding the DB2 environment, instances, and databases Establishing client and server connectivity Working with database objects Utilizing breakthrough pureXML™ technology, which provides for nativeXML support Mastering administration, maintenance, performance optimization, troubleshooting, and recovery Understanding improvements in the DB2 process, memory, and storage models Implementing effective database security Leveraging the power of SQL and XQuery This certification guide offers a complete, start-to-finish coverage of DB2 Universal Database Version 8 administration. With Version 8 key topics such as Performance Enhancements, Manageability Enhancements, etc. are addressed.

"Outside-in thinking complements any approach your teams may be taking to the actual implementation of software, but it changes how you measure success. A successful outside-in team does a lot of learning and not much speculation." —Tom Poppendieck Build Software That Delivers Maximum Business Value to Every Key Stakeholder Imagine your ideal development project. It will deliver exactly what your clients need. It will achieve broad, rapid, enthusiastic adoption. And it will be designed and built by a productive, high-morale team of expert software professionals. Using this book's breakthrough "outside-in" approach to software development, your next project can be that ideal project. In Outside-in Software Development , two of IBM's most respected software leaders, Carl Kessler and John Sweitzer, show you how to identify the stakeholders who'll determine your project's real value, shape every decision around their real needs, and deliver software that achieves broad, rapid, enthusiastic adoption. The authors present an end-to-end framework and practical implementation techniques any development team can quickly benefit from, regardless of project type or scope. Using their proven approach, you can improve the effectiveness of every client conversation, define priorities with greater visibility and clarity, and make sure all your code delivers maximum business value. Coverage includes Understanding your stakeholders and the organizational and business context they operate in Clarifying the short- and long-term stakeholder goals your project will satisfy More effectively mapping project expectations to outcomes Building more "consumable" software: systems that are easier to deploy, use, and support Continuously enhancing alignment with stakeholder goals Helping stakeholders manage ongoing change long after you've delivered your product Mastering the leadership techniques needed to drive outside-in development

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

**Writing Extensible, Scalable and Maintainable Perl-Based Web Applications**

**Harnessing the Power of Convergence**

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

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

**Implementing ITIL Configuration Management**

**MySQL to DB2 Conversion Guide**

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

There is now a direct, provable link between an organization's flexibility and business performance. To optimize flexibility, companies must achieve unprecedented levels of integration and automation of key processes and infrastructure, both internally and externally. At the same time, they must learn to manage their processes far more dynamically and responsively. They must become flex-pon-sive\*. Until recently, technology stood in the way of achieving these goals. Thanks to the emergence of service oriented architecture (SOA), Web 2.0, and open standards, technology now enables companies to achieve those goals. In The New Language of Business, one of IBM's top SOA strategist demonstrates how business leaders can use innovations in technology to drive dramatic process improvements and support accelerating change. Sandy Carter shows how to deconstruct your business into a “componentized” business model, then support that model with linked, repeatable IT services that can adapt quickly, easily, and economically. These techniques will help both IT professionals and business leaders reach new levels of operational excellence to deliver the market-focused innovations that matter most. Drive competitive advantage through Service Oriented Architecture Leverage the value of business process components and IT services Achieve one version of the truth—finally! Use information as a service to improve business insight and reduce risk Master SOA governance and the service lifecycle Manage IT infrastructure for business results, both short-term and long-term Start fast: choose from three winning approaches Get quick wins with business process management, collaboration or information Implement on demand: what works—and what doesn't Discover key success factors—and ten critical mistakes to avoid

There has never been a PL/SQL Guide like this. It contains 69 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need—fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about PL/SQL. A quick look inside of some of the subjects covered: Object-PL/SQL – The PL/SQL, Oracle Corporation Various databases, PL/SQL – Dynamic SQL, Ada (programming language), Outline of software engineering – Software engineering topics, Oracle SQL Developer – Components, PL/SQL – Function, Alphabetical list of programming languages – P, Timesten – History, PL/SQL – Array handling, IBM DB2 – Competition, Postgres – Procedural languages, SQL/PSM, Oracle Data Mining – PL/SQL and Java interfaces, IBM DB2 – History, Oracle SQL Developer – Extensions, Oracle Application Express – APEX Security, Oracle SQL Developer – Features, Steven Feuerstein, Oracle Application Express – Advantages, Oracle database – Tools, PL/SQL – Trigger, StepSqlite – Architecture, Sun Certified – Oracle Forms Developer Certified Professional, Berkeley DB – Architecture, MapReduce – Lack of novelty, PL/SQL – FOR loops, Object-PL/SQL – Example 1, PL/SQL – Similar languages, Oracle RDBMS – Corporate/technical timeline, Object-PL/SQL – Examples of uses of syntax of O-PL/SQL, Oracle Forms – History, PL/SQL – Package, PL/pgSQL – Comparing with PSM, Object-PL/SQL – Autonomy, notoriety and importance of O-PL/SQL, PL/SQL – Procedure, Graph database – APIs and Graph Query/Programming Languages, PL/SQL – Data Types, Steven Feuerstein – Books, Oracle database – Physical and logical structures, and much more...

This cookbook has recipes written in a simple, easy to understand format with lots of screenshots and insightful tips and hints. If you are an IBM DB2 application developer who would like to exploit advanced features provided by DB2 to design and implement high quality applications, then this book is for you. This book assumes you have a basic understanding of the DB2 application development.

The Easy, Visual Introduction to IBM DB2 Version 10.5 for Linux, UNIX, and Windows Foreword by Judy Huber, Vice President, Distributed Data Servers and Data Warehousing; Director, IBM Canada Laboratory This book covers everything you need to get productive with the latest version of IBM DB2 and apply it to today's business challenges. It discusses key features introduced in DB2 Versions 10.5, 10.1, and 9.7, including improvements in manageability, integration, security, Big Data support, BLU Acceleration, and cloud computing. DB2 Essentials illuminates key concepts with examples drawn from the authors' extensive experience with DB2 in enterprise environments. Raul F. Chong and Clara Liu explain how DB2 has evolved, what's new, and how to choose the right products, editions, and tools. Next, they walk through installation, configuration, security, data access, remote connectivity, and day-to-day administration. Each chapter starts with an illustrative overview to introduce its key concepts using a big picture approach. Clearly explained figures are used extensively, and techniques are presented with intuitive screenshots, diagrams, charts, and tables. Case studies illustrate how “theory” is applied in real-life environments, and hundreds of review questions help you prepare for IBM's newest DB2 certification exams. Coverage includes • Understanding the role of DB2 in Big Data • Preparing for and executing a smooth installation or upgrade • Understanding the DB2 environment, instances, and databases • Configuring client and server connectivity • Working with database objects • Getting started with BLU Acceleration • Implementing security: authentication and authorization • Understanding concurrency and locking • Maintaining, backing up, and recovering data • Using basic SQL in DB2 environments • Diagnosing and solving DB2 problems This book is for anyone who plans to work with DB2, including DBAs, system administrators, developers, and consultants. It will be a great resource whether you're upgrading from an older version of DB2, migrating from a competitive database, or learning your first database platform.

**Compatibility Made Easy**

**Understanding DB2**

**IBM Rational Unified Process Reference and Certification Guide**

**The New Language of Business**

**Solution Designer (RUP)**

**Essential Guide for DB2 UDB on Linux, UNIX, Windows, I5/OS, and z/OS**

**The Definitive Guide**

"No previous build experience is necessary: Lee thoroughly explains everything from configuring SCM environments and defining build scripts through to release packaging and deployment. He offers solutions and techniques for both Base ClearCase and Unified Change Management (UCM)-IBM Rational's best practice Software Configuration Management usage model. Key techniques are presented in real-world context, through a full-fledged three-tier application case study. Book jacket."--Jacket.

Switching database vendors is often considered an exhausting challenge for database administrators and developers. Complexity, total cost, and the risk of downtime are often the reasons that restrain IT decision makers from starting the migration project. The primary goal of this book is to show that, with the proper planning and guidance, converting from MySQL to IBM® DB2® is not only feasible but straightforward. If you picked up this book, you are most likely considering converting to DB2 and are probably aware of several of the advantages of converting to DB2 data server. In this IBM Redbooks® publication, we discuss in detail how you can take advantage of this industry leading database server. This book is an informative guide that describes how to convert the database system from MySQL™ 5.1 to DB2® V9.7 on Linux® and the steps that are involved in enabling the applications to use DB2 instead of MySQL. This guide also presents the best practices in conversion strategy and planning, conversion tools, porting steps, and practical conversion examples. It is intended for technical staff that is involved in a MySQL to DB2 conversion project.

DB2 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

Structured Query Language (SQL) procedures, triggers, and functions, which are also known as user-defined functions (UDFs), are the key database features for developing robust and distributed applications. IBM® DB2® for i supported these features for many years, and they are enhanced in IBM i versions 6.1, 7.1, and 7.2. DB2 for i refers to the IBM DB2 family member and relational database management system that is integrated within the IBM Power operating system that is known as IBM i. This IBM Redbooks® publication includes several of the announced features for SQL procedures, triggers, and functions in IBM i versions 6.1, 7.1, and 7.2. This book includes suggestions, guidelines, and practical examples to develop DB2 for i SQL procedures, triggers, and functions effectively. This book covers the following topics: Introduction to the SQL/ Persistent Stored Modules (PSM) language, which is used in SQL procedures, triggers, and functions SQL procedures SQL triggers SQL functions This book is for IBM i database engineers and data-centric developers who strive to provide flexible, extensible, agile, and scalable database solutions that meet business requirements in a timely manner. Before you read this book, you need to know about relational database technology and the application development environment on the IBM Power Systems™ with the IBM i operating system.

**The Definitive Guide to Catalyst**

**Unlocking the Business Value in Unstructured Information**

**Visual Modeling with IBM Rational Software Architect and UML**

**The Java Developer's Guide to Accelerating and Automating the Build Process**

Beginning DB2  
DB2 SQL Procedural Language for Linux, UNIX, and Windows  
Service-oriented Architecture Compass

*“There is no doubt that this is a truly original and groundbreaking work in applying the Theory of Constraints. I run a services company and learned some things about the services business. Anyone involved in large services companies needs to look at what John is proposing. I will definitely quote this material frequently.” Chad Smith, Managing Partner, Constraints Management Group “The information presented in this book is badly needed by service providers who struggle to balance supply and demand with their resources.” Carol A. Ptak, CFPIM, CIRM “The techniques that John brings to light in this book are the bridge from the vision of Dr. Goldratt’s work to the successful implementation in a range of services firms.” From the Foreword by Erik Bush, Vice President, IBM Global Services Discover the powerful Theory of Constraints (TOC), and use it to drive continuous performance improvement in any services organization Identify the hidden constraints that are limiting your organization, and manage or eliminate them Use TOC to improve the way you manage resources, projects, processes, finance, marketing, and sales Determine whether your organization faces an internal or external constraint, manage that constraint accordingly, and anticipate where the next constraint will arise Release latent capacity shrouded by common business practices Simplify processes that have grown unmanageably complex Optimize your enterprise as a whole rather than suboptimizing individual business units Get buy-in to fundamental changes in strategy, tactics, and operations Managing services is extremely challenging, and traditional “industrial” management techniques are no longer adequate. In Reaching the Goal, Dr. John Arthur Ricketts presents a breakthrough management approach that embraces what makes services different: their diversity, complexity, and unique distribution methods. Ricketts draws on Eli Goldratt’s Theory of Constraints (TOC), one of this generation’s most successful management methodologies...thoroughly adapting it to the needs of today’s professional, scientific, and technical services businesses. He reveals how to identify the surprising constraints that limit your organization’s performance, execute more effectively within those constraints, and then loosen or even eliminate them. This book’s relentlessly practical techniques reflect several years of advanced IBM research and consulting with enterprise clients. Step-by-step, Ricketts shows how to apply them throughout your most crucial business functions...from project management to finance, process improvement to sales and marketing. Whatever your role in improving service delivery, processes, or profitability, this book gives you the tools to reach your goals...and go beyond them Identify, manage, and overcome your key constraints Five steps to uncovering and addressing the real obstacles to improved performance Optimize core business functions, one step at a time Improve the way you manage resources, projects, processes, finance, and marketing Implement TOC rapidly and effectively Get buy-in, deploy infrastructure, and provide the right IT support? Introductory Guide to WebSphere Business Integration from IBM Using WebSphere Business Integration (WBI) technology, you can build an enterprise-wide Business Integration (BI) infrastructure that makes it easier to connect any business resources and functions, so you can adapt more quickly to the demands of customers and partners. Now there’s an introductory guide to creating standards-based process and data integration solutions with WBI. WebSphere Business Integration Primer thoroughly explains Service Component Architecture (SCA), basic business processes, and complex long-running business flows, and guides you to choose the right process integration architecture for your requirements. Next, it introduces the key components of a WBI solution and shows how to make them work together rapidly and efficiently. This book will help developers, technical professionals, or managers understand today’s key BI issues and technologies, and streamline business processes by combining BI with Service Oriented Architecture (SOA). Coverage includes Linking BI, business process management (BPM), and SOA BI scenarios, architecture, patterns, and the IBM Business Object Framework Business orchestration utilizing WS-BPEL and other industry standards BI development with WebSphere Integration Developer (WID) and the SCA programming model WebSphere Process Server (WPS): a runtime for service-oriented applications Defining business maps, rules, business state machines, and human tasks Managing BI services: security, auditing, and more Integrating third-party and legacy systems with WebSphere adapters Utilizing WebSphere Business Modeler and WebSphere Business Monitor Using WebSphere Enterprise Service Bus (WESB) to integrate services*

*Updates the comprehensive user’s guide to IBM’s popular relational database software for mainframe computers, to describe the latest version, 2.3. Explains all the key components of the DB2 environment including the IBM “solution frameworks” AD/cycle, and the information warehouse, in which DB2 plays a pivotal role. Annotation copyrighted by Book News, Inc., Portland, OR*

*This IBM® Redbooks® publication describes IBM DB2® SQL compatibility features. The latest version of DB2 includes extensive native support for the PL/SQL procedural language, new data types, scalar functions, improved concurrency, built-in packages, OCI, SQLPlus, and more. These features can help with developing applications that run on both DB2 and Oracle and can help simplify the process of moving from Oracle to DB2. In addition, IBM now provides tools to simplify the enablement process, such as the highly scalable IBM Data Movement Tool for moving schema and data into DB2, and an Editor and Profiler for PL/SQL provided by the IBM Data Studio tool suite. This Oracle to DB2 migration guide describes new technology, preferred practices for moving to DB2, and common scenarios that can help you as you move from Oracle to DB2. This book is intended for IT architects and developers who are converting from Oracle to DB2. DB2 compatibility with Oracle is provided through native support. The new capabilities in DB2 that provide compatibility are implemented at the lowest and most intimate levels of the database kernel, as though they were originally engineered for DB2. means that the DB2 implementation is done without the aid of an emulation layer. This intimacy leads to the scalable implementation that DB2 offers, providing identical performance between DB2 compatibility features and DB2 other language elements. For example, DB2 runs SQL PL at the same performance as PL/SQL implementations of the same function.*

*PL/Sql 69 Success Secrets - 69 Most Asked Questions on PL/Sql - What You Need to Know Easy Development and Administration*

*Master the Power of the IBM Hybrid Data Server*

*How Managers Improve a Services Business Using Goldratt's Theory of Constraints (Adobe Reader)*

*Learning Visually with Examples*

*Lessons From The Trenches*

*Db2 Express*

*Leverage Your Security Expertise in IBM® System z™ Mainframe Environments For over 40 years, the IBM mainframe has been the backbone of the world’s largest enterprises. If you’re coming to the IBM System*

*z mainframe platform from UNIX®, Linux®, or Windows®, you need practical guidance on leveraging its unique security capabilities. Now, IBM experts have written the first authoritative book on*

*mainframe security specifically designed to build on your experience in other environments. Even if you’ve never logged onto a mainframe before, this book will teach you how to run today’s z/OS®*

*operating system command line and ISPF toolset and use them to efficiently perform every significant security administration task. Don’t have a mainframe available for practice? The book contains step-by-*

*step videos walking you through dozens of key techniques. Simply log in and register your book at [www.ibmpressbooks.com/register](http://www.ibmpressbooks.com/register) to gain access to these videos. The authors illuminate the mainframe’s*

*security model and call special attention to z/OS security techniques that differ from UNIX, Linux, and Windows. They thoroughly introduce IBM’s powerful Resource Access Control Facility (RACF) security*

*subsystem and demonstrate how mainframe security integrates into your enterprise-wide IT security infrastructure. If you’re an experienced system administrator or security professional, there’s no faster*

*way to extend your expertise into “big iron” environments. Coverage includes Mainframe basics: logging on, allocating and editing data sets, running JCL jobs, using UNIX System Services, and accessing*

*documentation Creating, modifying, and deleting users and groups Protecting data sets, UNIX file system files, databases, transactions, and other resources Manipulating profiles and managing permissions*

*Configuring the mainframe to log security events, filter them appropriately, and create usable reports Using auditing tools to capture static configuration data and dynamic events, identify weaknesses,*

*and remedy them Creating limited-authority administrators: how, when, and why*

*Marketshare for DB2 has been growing steadily over the past 5 years and with the announcement of DB2 Universal Database V8 (T-Rex), the product has never had more momentum. DB2 owns about 30 percent of*

*the database market--the same as Oracle. Not only is the product used in many Fortune 500 companies, but it is becoming very popular in small to medium sized businesses as well. This book provides the*

*reader with a comprehensive reference and research tool for DB2 for the mainframe. Official material is awkwardly written, spans over a dozen manuals in PDF format, and lacks real-world guidance. Author,*

*Craig Mullins, consistently hears from readers of past editions that they rely on this book as their primary reference for DB2. Craig Mullins is constantly being asked when it will support a new release.*

*Leverage Unstructured Data to Become More Competitive, Responsive, and Innovative In Mining the Talk, two leading-edge IBM researchers introduce a revolutionary new approach to unlocking the business*

*value hidden in virtually any form of unstructured data—from word processing documents to websites, emails to instant messages. The authors review the business drivers that have made unstructured data so*

*important—and explain why conventional methods for working with it are inadequate. Then, writing for business professionals—not just data mining specialists—they walk step-by-step through exploring your*

*unstructured data, understanding it, and analyzing it effectively. Next, you’ll put IBM’s techniques to work in five key areas: learning from your customer interactions; hearing the voices of customers*

*when they’re not talking to you; discovering the “collective consciousness” of your own organization; enhancing innovation; and spotting emerging trends. Whatever your organization, Mining the Talk offers*

*you breakthrough opportunities to become more responsive, agile, and competitive. Identify your key information sources and what can be learned about them Discover the underlying structure inherent in*

*your unstructured information Create flexible models that capture both domain knowledge and business objectives Create visual taxonomies: “pictures” of your data and its key interrelationships Combine*

*structured and unstructured information to reveal hidden trends, patterns, and relationships Gain insights from “informal talk” by customers and employees Systematically leverage knowledge from technical*

*literature, patents, and the Web Establish a sustainable process for creating continuing business value from unstructured data Preface xv Acknowledgements xx Chapter 1: Introduction 1 Chapter 2: Mining*

*Customer Interactions 21 Chapter 3: Mining the Voice of the Customer 71 Chapter 4: Mining the Voice of the Employee 93 Chapter 5: Mining to Improve Innovation 111 Chapter 6: Mining to See the Future 133*

*Chapter 7: Future Applications 163 Appendix: The IBM Unstructured Information Modeler Users Manual 171*

*Db2 SQL PLEssential Guide for DB2 UDB on Linux, UNIX, Windows, I5/OS, and Z/OSPrentice HallOracle to DB2 Conversion Guide: Compatibility Made EasyIBM Redbooks*

*DB2 9 for Linux, UNIX, and Windows*

*IBM Rational ClearCase, Ant, and CruiseControl*

*Essential Guide for DB2 UDB on Linux, Unix, Windows, I5/Os, and Z/OS*

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

*DB2 SQL PL, Second Edition*

*DB2 Essentials*

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

*This authoritative guide for IBM’s new “Lite” version of DB2—a new \$500 million initiative to win small-medium sized businesses--teaches best practices for developing GUI driven applications using the most popular languages in the industry: Java and Microsoft Visual Basic.*

*DB2® 9 builds on the world’s number one enterprise database to simplify the delivery of information as a service, accelerate development, and dramatically improve operational efficiency, security, and resiliency. Now, this new edition offers complete, start-to-finish coverage of DB2 9 administration and development for*

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*storage management, and storage optimization Table-partitioning features that improve scalability and manageability Powerful improvements for more agile and rapid development, including the new Eclipse-based Developer Workbench and simple SQL or XQuery access to all data Whatever your role in working with*

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*R. Dennis Gibbs covers the entire development lifecycle, from planning and requirements to post-mortems and system maintenance. Gibbs offers especially valuable insights into using the RUP to manage outsourced projects and any project relying on distributed development teams—outsourced, insourced, or both. This*

*“from the trenches” guidebook is invaluable for anyone interested in best practices for managing software development: project managers, team leaders, procurement and contracting specialists, quality assurance and software process professionals, consultants, and developers. If you’re already using the RUP, Gibbs will*

*help you more effectively use it. Whatever your role or the RUP experience, you’ll learn ways to · Simplify and streamline the management of any large-scale or outsourced project · Overcome the challenges of using the RUP in software project management · Optimize software procurement and supplier relationships,*

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*challenges of changing requirements · Organize iterations and testing in incremental development processes · Transition new systems into service: from managing expectations to migrating data · Plan system maintenance and implement effective change control · Learn all you can from project post-mortems—and put those*

*lessons into practice*

*Outside-in Software Development*

*SQL Procedures, Triggers, and Functions on IBM DB2 for i*

*DB2 SQL PL*

*Reaching The Goal*

*From Novice to Professional*

*Oracle to DB2 Conversion Guide: Compatibility Made Easy*

*Oracle to DB2 Conversion Guide*

*An interactive guide to Oracle’s intensive query tool, SQL\* Plus, discusses its powerful features, furnishes a syntax quick reference, and explains how to write and execute script files, generate reports, extract data from the database, utilize new administrative features, query*

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*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*

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*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*

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*procedures and other object-relational extensions Optimizing DB2 applications and the DB2 engine for maximum performance Whether you are administering DB2 UDB V8 in z/OS environments, planning to do so, or preparing for DB2 UDB V8 DBA certification, DB2 for z/OS*

*Version 8 DBA Certification Guide will be your single most valuable resource.*

*This IBM® Redbooks® publication describes IBM DB2® SQL compatibility features. The latest version of DB2 includes extensive native support for the PL/SQL procedural language, new data types, scalar functions, improved concurrency, built-in packages, OCI, SQL\*Plus, and*

*more. These features can help with developing applications that run on both DB2 and Oracle and can help simplify the process of moving from Oracle to DB2. In addition, IBM now provides tools to simplify the enablement process, such as the highly scalable IBM Data*

*Movement Tool for moving schema and data into DB2, and an Editor and Profiler for PL/SQL provided by the IBM Data Studio tool suite. This Oracle to DB2 migration guide describes new technology, preferred practices for moving to DB2, and common scenarios that can help*

*you as you move from Oracle to DB2. This book is intended for IT architects and developers who are converting from Oracle to DB2. DB2 compatibility with Oracle is provided through native support. The new capabilities in DB2 that provide compatibility are implemented at the*

*lowest and most intimate levels of the database kernel, as though they were originally engineered for DB2. means that the DB2 implementation is done without the aid of an emulation layer. This intimacy leads to the scalable implementation that DB2 offers, providing identical*

*performance between DB2 compatibility features and DB2 other language elements. For example, DB2 runs SQL PL at the same performance as PL/SQL implementations of the same function.*

*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.*

*A User’s Guide to the IBM Product IBM DATABASE 2 (a Relational Database Management System for the MVS Environment) and Its Major Companion Products*

*Inescapable Data*

*IBM DB2 9.7 Advanced Application Developer Cookbook*

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*Mainframe Basics for Security Professionals*

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*latest versions of the Rational Unified Process and of the IBM RUP exam. Authored by two leading RUP implementers, it draws on extensive contributions and careful reviews by the IBM RUP process leader and RUP certification manager.*

*This book covers every facet of RUP usage. It has been carefully organized to help you prepare for your exam quickly and efficiently—and to provide a handy, compact reference you can rely on for years to come. Coverage includes A full*

*section on RUP exam preparation and a 52-question practice exam Core RUP concepts, the new RUP process architecture, and key principles of business-driven development RUP’s architecture-centric approach to iterative development: practical issues and scenarios Patterns for successful RUP project implementation—and “anti-patterns” to avoid The Unified Method Architecture (UMA): basic content and process elements RUP content disciplines, in depth: Business*

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*Mastering material for dealing with DBA certification exams Key Features Prepare yourself for the IBM C2090-600 certification exam Cover over 50 Db2 procedures including database design, performance, and security Work through over*

*150 Q&As to gain confidence on each topic Book Description IBM Db2 is a relational database management system (RDBMS) that helps you store, analyze, and retrieve data efficiently. This comprehensive book is designed to help you*

*master all aspects of IBM Db2 database administration and prepare you to take and pass IBM’s Certification Exams C2090-600. Building on years of extensive experience, the authors take you through all areas covered by the test. The book*

*delves deep into each certification topic: Db2 server management, physical design, business rules implementation, activity monitoring, utilities, high availability, and security. IBM Db2 11.1 Certification Guide provides you with more than*

150 practice questions and answers, simulating real certification examination questions. Each chapter includes an extensive set of practice questions along with carefully explained answers. This book will not just prepare you for the C2090-600 exam but also help you troubleshoot day-to-day database administration challenges. What you will learn Configure and manage Db2 servers, instances, and databases Implement Db2 BLU Acceleration and a DB2 pureScale environment Create, manage, and alter Db2 database objects Use the partitioning capabilities available within Db2 Enforce constraint checking with the SET INTEGRITY command Utilize the Db2 problem determination (db2pd) and dsmtop tools Configure and manage HADR Understand how to encrypt data in transit and at rest Who this book is for The IBM Db2 11.1 Certification Guide is an excellent choice for database administrators, architects, and application developers who are keen to obtain certification in Db2. Basic understanding of Db2 is expected in order to get the most out of this guide.

**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! 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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 workingIT 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](http://ibm.com). Icons throughout the book alert the reader to these valuable resources.

Project Management with the IBM Rational Unified Process

DB2 for z/OS Version 8 DBA Certification Guide

Db2 SQL PI

DB2 Developer's Guide

WebSphere Business Integration Primer

Process Server, BPEL, SCA, and SOA

SOA & Web 2.0 (Adobe Reader)