

## Read Book Ibm Cognos Bi V10 2 Administration Essentials

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How to Transform Your Organization with Analytics: Insider Lessons from IBM 's Pioneering Experience Analytics is not just a technology: It is a better way to do business. Using analytics, you can systematically inform human judgment with data-driven insight. This doesn ' t just improve decision-making: It also enables greater innovation and creativity in support of strategy. Your transformation won ' t happen overnight; however, it is absolutely achievable, and the rewards are immense. This book demystifies your analytics journey by showing you how IBM has successfully leveraged

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analytics across the enterprise, worldwide. Three of IBM's pioneering analytics practitioners share invaluable real-world perspectives on what does and doesn't work and how you can start or accelerate your own transformation. This book provides an essential framework for becoming a smarter enterprise and shows through 31 case studies how IBM has derived value from analytics throughout its business.

Coverage Includes Creating a smarter workforce through big data and analytics More effectively optimizing supply chain processes Systematically improving financial forecasting Managing financial risk, increasing operational efficiency, and creating business value Reaching more B2B or B2C customers and deepening their engagement Optimizing manufacturing and product management processes

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Deploying your sales organization to increase revenue and effectiveness Achieving new levels of excellence in services delivery and reducing risk Transforming IT to enable wider use of analytics “Measuring the immeasurable” and filling gaps in imperfect data Whatever your industry or role, whether a current or future leader, analytics can make you smarter and more competitive. Analytics Across the Enterprise shows how IBM did it--and how you can, too.

Learn more about IBM Analytics

This IBM® Redbooks® publication is based on the book Introduction to the New Mainframe: z/OS Basics, SG24-6366, which was produced by the International Technical Support Organization (ITSO), Poughkeepsie Center. It provides students of information systems technology with the

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background knowledge and skills necessary to begin using the basic facilities of a mainframe computer. For optimal learning, students are assumed to have successfully completed an introductory course in computer system concepts, such as computer organization and architecture, operating systems, data management, or data communications. They should also have successfully completed courses in one or more programming languages, and be PC literate. This textbook can also be used as a prerequisite for courses in advanced topics, or for internships and special studies. It is not intended to be a complete text covering all aspects of mainframe operation. It is also not a reference book that discusses every feature and option of the mainframe facilities. Others who can benefit from this course

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include experienced data processing professionals who have worked with non-mainframe platforms, or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment. As we go through this course, we suggest that the instructor alternate between text, lecture, discussions, and hands-on exercises. Many of the exercises are cumulative, and are designed to show the student how to design and implement the topic presented. The instructor-led discussions and hands-on exercises are an integral part of the course, and can include topics not covered in this textbook. In this course, we use simplified examples and focus mainly on basic system functions. Hands-on exercises are provided throughout the course to help students explore

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the mainframe style of computing. At the end of this course, you will be familiar with the following information: Basic concepts of the mainframe, including its usage and architecture Fundamentals of IBM z/VSE® (VSE), an IBM zTM Systems entry mainframe operating system (OS) An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced, specialized areas of z/VSE, such as system administration or application programming

Organizations are pressured constantly to understand and react quickly to information. In addition, the complexity and volumes of data for all aspects of the environments in which organizations operate is increasing. Markets, regulatory

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environments, customer and supplier data, competitive information, and internal operational information all impact how data is viewed and interpreted. With a capable and efficient business intelligence (BI) solution, all levels of an organization can receive information how, when, and where they need it to make faster and better aligned decisions. Every user can have access to all the capabilities of the BI solution, and often organizations can determine a user's business need to access information using typical characteristics that are defined by that user's role. Many organizations often satisfy this complexity and these diverse demands with a number of point solutions. With IBM® Cognos® Business Intelligence (BI), you can satisfy needs throughout the user community and ensure that everyone can

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work and collaborate from a consistent set of data. In addition, IT is simplified with fewer components to deploy, manage, and maintain. Organizations need to make the most of a workforce that is increasingly driven to multi-task, network, and collaborate. IBM Cognos BI delivers analytics that everyone in the organization can use to answer key business questions. This IBM Redguide™ publication highlights features of IBM Cognos BI version 10.1.

The IBM Informix® Dynamic Server (IDS) has the tools to build a powerful data warehouse infrastructure platform to lower costs and increase profits by doing more with your existing operational data and infrastructure. The Informix Warehouse Feature simplifies the process for design and deployment of a high performance data warehouse. With a



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state-of-the-art extract, load, and transform (ELT) tool and an Eclipse-based GUI environment that is easy to use, this comprehensive platform provides the foundation you need to cost effectively build and deploy the data warehousing infrastructure, using the IBM Informix Dynamic Server, and needed to enable the development and use of next-generation analytic solutions . This IBM® Redbooks® publication describes the technical information and demonstrates the functions and capabilities of the Informix Dynamic Server Warehouse Feature. It can help you understand how to develop a data warehousing architecture and infrastructure to meet your particular requirements, with the Informix Dynamic Server. It can also enable you to transform and manage your operational data, and use it to

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populate your data warehouse. With that new data warehousing environment, you can support the data analysis and decision-making that are required as you monitor and manage your business processes, and help you meet your business performance management goals, objectives, and measurements.

The Architecture of Privacy

Architecting and Deploying DB2 with BLU Acceleration

Enabling Real-time Analytics on IBM z Systems Platform

On Engineering Technologies that Can Deliver Trustworthy Safeguards

Practical Examples

This IBM® Redbooks® publication

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provides performance tuning tips and best practices for IBM Business Process Manager (IBM BPM) V8.5.5 (all editions) and IBM Business Monitor V8.5.5. These products represent an integrated development and runtime environment based on a key set of service-oriented architecture (SOA) and business process management (BPM) technologies. Such technologies include Service Component Architecture (SCA), Service Data Object (SDO), Business Process Execution

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Language (BPEL) for web services, and Business Processing Modeling Notation (BPMN). Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere® Application Server infrastructure. As a result, Business Process Manager solutions benefit from tuning, configuration, and best practices information for WebSphere Application Server and the corresponding platform Java virtual

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machines (JVMs). This book targets a wide variety of groups, both within IBM (development, services, technical sales, and others) and customers. For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor, this document proves a useful reference. The book is useful both in terms of best practices during application development and deployment

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and as a reference for setup, tuning, and configuration information. This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution

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performance can be improved.

Written as a practical guide, this book will show you how to manage your reporting environment using IBM Cognos 10 and make the most out of BI tools within your business - taking a hands-on approach to stimulate learning and develop your understanding, If you are an IBM Cognos or Business Intelligence developer or consultant, have a basic knowledge of Cognos 10 BI and a good level of understanding of Cognos 8 then

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this book is for you

IBM® ILOG® ODM Enterprise is a platform to implement and deploy corporate custom solutions for optimization-based planning and scheduling. Developing a realistic plan or schedule that provides the best possible balance between customer service and revenue goals is hard work. With ILOG ODM Enterprise, business leaders can make better decisions through what-if analysis, scenario management, and



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collaboration. This IBM Redpaper™ publication showcases the optimization scenario of the Supply Demand application for ILOG ODM Enterprise. This scenario highlights the product features. It includes suggested practices for using IBM Cognos® and InfoSphere™ offerings to extract data and build reports with ILOG ODM Enterprise driving the import and export of data. The target audience for this paper is IT specialists and IT

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architects who implement ILOG ODM Enterprise solutions and decision makers such as IT managers.

A practical and fast-paced guide, with step-by-step explanations to give you all the information you need to know the power of Cognos BI Administration. If you are a Cognos BI administrator or architect, this is the book for you. You must have basic knowledge of databases and business intelligence. You also need to be familiar with

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Cognos BI and must have worked in any section of reports studio, modelling or maps, to get the best out of this book.

Workload Optimized Systems: Tuning POWER7 for Analytics

Optimization and Decision Support

Design Guide: Using IBM ILOG

Optimization Decision Manager

Leveraging DB2 10 for High Performance of Your Data Warehouse

IBM Business Process Manager Version

8.0 Production Topologies

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### IBM ILOG ODM Enterprise and Data Integration

This IBM® Redbooks® publication describes how to build production topologies for IBM Business Process Manager V8.0. This book is an update of the existing book IBM Business Process Manager V7.5 Production Topologies, SG24-7976. It is intended for IT Architects and IT Specialists who want to understand and implement these topologies. Use this book to select the

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appropriate production topologies for an environment, then follow the step-by-step instructions to build those topologies. Part 1 introduces IBM Business Process Manager and provides an overview of basic topology components, and Process Server and Process Center. This part also provides an overview of the production topologies described in this book, including a selection criteria for when to select a topology. IBM Business

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Process Manager security and the presentation layer are also addressed in this part. Part 2 provides a series of step-by-step instructions for creating production topology environments by using deployment environment patterns. This process includes topologies that incorporate IBM Business Monitor. This part also describes advanced topology topics. Part 3 covers post installation instructions for implementing

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production topology environments such as configuring IBM Business Process Manager to use IBM HTTP Server and WebSphere® proxy server.

This IBM® Redbooks® publication explains how IBM Cognos® Business Intelligence (BI) administrators, authors, modelers, and power users can use the dynamic query layer effectively. It provides guidance for determining which technology within the dynamic query layer can best satisfy

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your business requirements.

Administrators can learn how to tune the query service effectively and preferred practices for managing their business intelligence content. This book includes information about metadata modeling of relational data sources with IBM Cognos Framework Manager. It includes considerations that can help you author high-performing applications that satisfy analytical requirements of users. This



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book provides guidance for troubleshooting issues related to the dynamic query layer of Cognos BI.

Related documents: Solution Guide : Big Data Analytics with IBM Cognos BI  
Dynamic Query Blog post : IBM Cognos Dynamic Query Extensibility

IBM® Watson™ Content Analytics (Content Analytics) Version 3.0 (formerly known as IBM Content Analytics with Enterprise Search (ICAwES)) helps you to unlock the value

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of unstructured content to gain new actionable business insight and provides the enterprise search capability all in one product. Content Analytics comes with a set of tools and a robust user interface to empower you to better identify new revenue opportunities, improve customer satisfaction, detect problems early, and improve products, services, and offerings. To help you gain the most benefits from your unstructured

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content, this IBM Redbooks® publication provides in-depth information about the features and capabilities of Content Analytics, how the content analytics works, and how to perform effective and efficient content analytics on your content to discover actionable business insights. This book covers key concepts in content analytics, such as facets, frequency, deviation, correlation, trend, and sentimental analysis. It describes the content analytics miner,

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and guides you on performing content analytics using views, dictionary lookup, and customization. The book also covers using IBM Content Analytics Studio for domain-specific content analytics, integrating with IBM Content Classification to get categories and new metadata, and interfacing with IBM Cognos® Business Intelligence (BI) to add values in BI reporting and analysis, and customizing the content analytics miner with APIs. In addition,

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the book describes how to use the enterprise search capability for the discovery and retrieval of documents using various query and visual navigation techniques, and customization of crawling, parsing, indexing, and runtime search to improve search results. The target audience of this book is decision makers, business users, and IT architects and specialists who want to understand and analyze their enterprise content to

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improve and enhance their business operations. It is also intended as a technical how-to guide for use with the online IBM Knowledge Center for configuring and performing content analytics and enterprise search with Content Analytics.

This IBM® Redbooks® publication describes how to build production topologies for IBM Business Process Manager Advanced V7.5. It is aimed at IT Architects and IT Specialists who

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want to understand and implement these topologies. Use this book to select the appropriate production topologies for a given environment, then follow the step-by-step instructions included in this book to build these topologies. Part one introduces IBM Business Process Manager and provides an overview of basic topology components, and Process Server and Process Center. This part also provides an overview of the production topologies that we describe

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in this book, including a selection criteria for when to select a given topology. Part two provides a series of step-by-step instructions for creating production topology environments using deployment environment patterns. This includes topologies that incorporate IBM Business Monitor. This part also discusses advanced topology topics. IBM i2 Integrated Law Enforcement: Technical Architecture and Deployment Guide



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Co-locating Transactional and Data Warehouse Workloads on System z  
IBM ILOG Visualization Integration Scenarios

IBM Cognos Business Intelligence Theory, Systems and Industrial Applications

**Today many organizations face challenges when developing a realistic plan or schedule that provides the best possible balance between customer service and revenue goals. Optimization technology has long been used to find the best solutions to complex planning and scheduling problems. A decision-support environment that enables the flexible exploration of all the trade-**

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**offs and sensitivities needs to provide the following capabilities:**  
**Flexibility to develop and compare realistic planning and scheduling scenarios**  
**Quality sensitivity analysis and explanations**  
**Collaborative planning and scenario sharing**  
**Decision recommendations**  
**This IBM® Redbooks® publication introduces you to the IBM ILOG® Optimization Decision Manager (ODM) Enterprise. This decision-support application provides the capabilities you need to take full advantage of optimization technology. Applications built with IBM ILOG ODM Enterprise can help users create, compare, and understand planning or scheduling scenarios. They can also adjust any of the model inputs or goals, and fully understanding the binding constraints, trade-offs, sensitivities, and business options. This book enables business analysts, architects, and**

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**administrators to design and use their own operational decision management solution.**

**Master Data Analytics Hands-On by Solving Fascinating Problems You'll Actually Enjoy! Harvard Business Review recently called data science “The Sexiest Job of the 21st Century.” It’s not just sexy: For millions of managers, analysts, and students who need to solve real business problems, it’s indispensable. Unfortunately, there’s been nothing easy about learning data science—until now. Getting Started with Data Science takes its inspiration from worldwide best-sellers like Freakonomics and Malcolm Gladwell’s Outliers: It teaches through a powerful narrative packed with unforgettable stories. Murtaza Haider offers informative, jargon-free coverage of basic theory and technique, backed with plenty of vivid**

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**examples and hands-on practice opportunities. Everything's software and platform agnostic, so you can learn data science whether you work with R, Stata, SPSS, or SAS. Best of all, Haider teaches a crucial skillset most data science books ignore: how to tell powerful stories using graphics and tables. Every chapter is built around real research challenges, so you'll always know why you're doing what you're doing. You'll master data science by answering fascinating questions, such as:**

- **Are religious individuals more or less likely to have extramarital affairs?**
- **Do attractive professors get better teaching evaluations?**
- **Does the higher price of cigarettes deter smoking?**
- **What determines housing prices more: lot size or the number of bedrooms?**
- **How do teenagers and older people differ in the way they use social media?**
- **Who is more likely to**

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**use online dating services? • Why do some purchase iPhones and others Blackberry devices? • Does the presence of children influence a family's spending on alcohol? For each problem, you'll walk through defining your question and the answers you'll need; exploring how others have approached similar challenges; selecting your data and methods; generating your statistics; organizing your report; and telling your story. Throughout, the focus is squarely on what matters most: transforming data into insights that are clear, accurate, and can be acted upon.**

**IBM® InfoSphere® Warehouse is the IBM flagship data warehouse platform for departmental data marts and enterprise data warehouses. It offers leading architecture, performance, backup, and recovery tools that help improve**

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**efficiency and reduce time to market through increased understanding of current data assets, while simplifying the daily operations of managing complex warehouse deployments. InfoSphere Warehouse Advanced Enterprise Edition delivers an enhanced set of database performance, management, and design tools. These tools assist companies in maintaining and increasing value from their warehouses, while helping to reduce the total cost of maintaining these complex environments. In this IBM Redbooks® publication we explain how you can build a business intelligence system with InfoSphere Warehouse Advanced Enterprise to manage and support daily business operations for an enterprise, to generate more income with lower cost. We describe the foundation of the business analytics, the Data Warehouse features and functions, and the solutions**

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**that can deliver immediate analytics solutions and help you drive better business outcomes. We show you how to use the advanced analytics of InfoSphere Warehouse Advanced Enterprise Edition and integrated tools for data modeling, mining, text analytics, and identifying and meeting the data latency requirements. We describe how the performance and storage optimization features can make building and managing a large data warehouse more affordable, and how they can help significantly reduce the cost of ownership. We also cover data lifecycle management and the key features of IBM Cognos® Business Intelligence. This book is intended for data warehouse professionals who are interested in gaining in-depth knowledge about the operational business intelligence solution for a data warehouse that the IBM InfoSphere Warehouse Advanced**

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**Enterprise Edition offers.**

**The only authorized guide to IBM Cognos Business Intelligence v10.1 Updated for the latest release of the software, IBM Cognos Business Intelligence 10: The Official Guide explains how to create, implement, and manage an enterprise BI solution. Maximize all of the new and enhanced features, including the powerful modeling, monitoring, and analytics capabilities. Build and deliver reports that foster informed business decisions and better results. Filled with real-world examples and expert advice, this practical resource is ideal for anyone working with IBM Cognos Business Intelligence v10.1--from administrators to end users. Monitor performance using dashboards and scorecards Assign user roles and privileges Provide a single access point to application-specific**



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**data via Cognos Connection Access content from Microsoft Office applications and mobile devices Collect and analyze BI data in an interactive dashboard with Cognos Business Insight Use Cognos Administration tools for system management Implement appropriate security measures Create BI reports with relational and dimensional data using Business Insight Advanced Use Report Studio to build dimensional reports and statistical analyses Identify and deliver mission-critical information using Event Studio Monitor business performance with Metric Studio Create, modify, organize, and publish a model in Framework Manager Ensure report integrity with Lifecycle Manager**

**Optimizing DB2 Queries with IBM DB2 Analytics Accelerator for z/OS**

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## **IBM Cognos Business Intelligence 10.1 Dashboarding Cookbook**

## **Big Data Analytics with IBM Cognos Dynamic Cubes Hybrid Analytics Solution using IBM DB2 Analytics Accelerator for z/OS V3.1**

## **IBM Cognos Business Intelligence V10.1 Handbook**

IBM® Cognos® Business Intelligence (BI) provides a proven enterprise BI platform with an open data strategy. Cognos BI provides customers with the ability to use data from any source, package it into a business model, and make it available to consumers in

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various interfaces that are tailored to the task. IBM Cognos Dynamic Cubes complements the existing Cognos BI capabilities and continues the tradition of an open data model. It focuses on extending the scalability of the IBM Cognos platform to enable speed-of-thought analytics over terabytes of enterprise data, without having to invest in a new data warehouse appliance. This capability adds a new level of query intelligence so you can

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unleash the power of your enterprise data warehouse. This IBM Redbooks® publication addresses IBM Cognos Business Intelligence V10.2.2 and specifically, the IBM Cognos Dynamic Cubes capabilities. This book can help you in the following ways: Understand core features of the Cognos Dynamic Cubes capabilities of Cognos BI V10.2 Learn by example with practical scenarios by using the IBM Cognos samples This book uses fictional

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business scenarios to demonstrate the power and capabilities of IBM Cognos Dynamic Cubes. It primarily focuses on the roles of the modeler, administrator, and IT architect.

IBM® Cognos® Business Intelligence (BI) provides a proven enterprise BI platform with an open data strategy, providing customers with the ability to leverage data from any source, package it into a business model, and make it available to consumers in various

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interfaces that are tailored to the task. IBM Cognos Dynamic Cubes complements the existing Cognos BI capabilities and continues the tradition of an open data model. It focuses on extending the scalability of the IBM Cognos platform to enable speed-of-thought analytics over terabytes of enterprise data, without having to invest in a new data warehouse appliance. This capability adds a new level of query intelligence so you can

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scenarios to demonstrate the power and capabilities of IBM Cognos Dynamic Cubes. It primarily focuses on the roles of modeler, administrator, and IT architect.

Take your IBM Cognos reports to a new level: learn from advanced reports taken straight from the classrooms of top IBM Cognos instructors! • Fully reflects the expert-level design challenges IBM Cognos report developers encounter most often. • A combined



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tutorial and cookbook that demonstrates real-world solutions and integrates the authors' personal experiences as IBM Cognos instructors. •Shows how to create 'consumer-friendly' reports, match reports to analysis, override data models, and use the newest Cognos 10 features. In this book, two leading IBM Cognos instructors show experienced Cognos users exactly how to take their reporting to the next level. Drawing on the best examples they've created in

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response to their students' real business challenges, the authors show how to design reports more effectively, prepare complex queries that run more efficiently, overcome common reporting problems, and generate more meaningful information. The authors share personal insights and examples from their unsurpassed experience working with hundreds of users of IBM Cognos reporting tools in multiple business roles and environments. Combining a

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step-by-step tutorial and 'cookbook' approach, they provide multiple reporting examples that professionals can easily adapt to their own requirements. Coverage includes:

- Creating consumer-friendly reports.
- Understanding and utilizing the report hierarchy.
- Knowing when and how to override the data model.
- Mastering advanced reporting techniques, including new advances in Version 10

Systems of record (SORs) are engines

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that generates value for your business. Systems of engagement (SOE) are always evolving and generating new customer-centric experiences and new opportunities to capitalize on the value in the systems of record. The highest value is gained when systems of record and systems of engagement are brought together to deliver insight. Systems of insight (SOI) monitor and analyze what is going on with various behaviors in the systems of engagement

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and information being stored or transacted in the systems of record. SOIs seek new opportunities, risks, and operational behavior that needs to be reported or have action taken to optimize business outcomes. Systems of insight are at the core of the Digital Experience, which tries to derive insights from the enormous amount of data generated by automated processes and customer interactions. Systems of Insight can also provide the ability to

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apply analytics and rules to real-time data as it flows within, throughout, and beyond the enterprise (applications, databases, mobile, social, Internet of Things) to gain the wanted insight. Deriving this insight is a key step toward being able to make the best decisions and take the most appropriate actions. Examples of such actions are to improve the number of satisfied clients, identify clients at risk of leaving and incentivize them to

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stay loyal, identify patterns of risk or fraudulent behavior and take action to minimize it as early as possible, and detect patterns of behavior in operational systems and transportation that lead to failures, delays, and maintenance and take early action to minimize risks and costs. IBM® Operational Decision Manager is a decision management platform that provides capabilities that support both event-driven insight patterns, and

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business-rule-driven scenarios. It also can easily be used in combination with other IBM Analytics solutions, as the detailed examples will show. IBM Operational Decision Manager Advanced, along with complementary IBM software offerings that also provide capability for systems of insight, provides a way to deliver the greatest value to your customers and your business. IBM Operational Decision Manager Advanced brings together data from different



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sources to recognize meaningful trends and patterns. It empowers business users to define, manage, and automate repeatable operational decisions. As a result, organizations can create and shape customer-centric business moments. This IBM Redbooks® publication explains the key concepts of systems of insight and how to implement a system of insight solution with examples. It is intended for IT architects and professionals who are responsible for

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implementing a systems of insights solution requiring event-based context pattern detection and deterministic decision services to enhance other analytics solution components with IBM Operational Decision Manager Advanced. IBM Cognos Business Intelligence 10: The Official Guide  
IBM Cognos Business Intelligence v10 Making Sense of Data with Analytics Implementing an Advanced Application Using Processes, Rules, Events, and

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Reports

Data Warehousing with the Informix Dynamic Server

*Drive Powerful Business Value by Extending MDM to Social, Mobile, Local, and Transactional Data*

*Enterprises have long relied on Master Data Management (MDM) to improve customer-related processes. But MDM was designed primarily for structured data. Today, crucial information is increasingly captured in unstructured, transactional, and social formats: from tweets and Facebook posts to call center transcripts. Even with tools like Hadoop, extracting usable insight is*

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*difficult—often, because it's so difficult to integrate new and legacy data sources. In Beyond Big Data, five of IBM's leading data management experts introduce powerful new ways to integrate social, mobile, location, and traditional data. Drawing on pioneering experience with IBM's enterprise customers, they show how Social MDM can help you deepen relationships, improve prospect targeting, and fully engage customers through mobile channels. Business leaders and practitioners will discover powerful new ways to combine social and master data to improve performance and uncover new opportunities. Architects and other technical leaders will*

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*find a complete reference architecture, in-depth coverage of relevant technologies and use cases, and domain-specific best practices for their own projects. Coverage Includes How Social MDM extends fundamental MDM concepts and techniques Architecting Social MDM: components, functions, layers, and interactions Identifying high value relationships: person to product and person to organization Mapping Social MDM architecture to specific products and technologies Using Social MDM to create more compelling customer experiences Accelerating your transition to highly-targeted, contextual marketing Incorporating mobile data*

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*to improve employee productivity Avoiding privacy and ethical pitfalls throughout your ecosystem Previewing Semantic MDM and other emerging trends*

*As business cycles speed up, many customers gain significant competitive advantage from quicker and more accurate business decision-making by using real data.*

*For many customers, choosing the path to co-locate their transactional and analytical workloads on System z® better leverages their existing investment in hardware, software, and skills. We created a project to address a number of best practice questions on how to manage these newer, analytical type workloads, especially when co-*

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*located with traditional transactional workloads. The goal of this IBM® Redbooks® publication is to provide technical guidance and performance trade-offs associated with resource management and potentially DB2® data-sharing in a variety of mixed transactional / data warehouse System z topologies. The term co-location used here and in the rest of the book is specifically defined as the practice of housing both transactional (OLTP) and data warehouse (analytical) workloads within the same System z configuration. We also assumed that key portions of the transactional and data warehouse databases would reside on DB2 for z/OS®. The databases may or may not*

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*reside in a DB2 data-sharing environment; we discuss those pros and cons in this book. The intended audience includes DB2 data warehouse architects and practitioners who are facing choices in resource management and system topologies in the data warehouse arena. This specifically includes Business Intelligence (BI) administrators, DB2 database administrators (DBAs) and z/OS performance administrators / systems programmers. In addition, decision makers and architects can utilize this book to assist in making platform and database topology decisions. The book is divided into four parts. Part I, "Introducing the co-location project" covers the System z*



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*value proposition and why one should consider System z as the central platform for their data warehousing / business analytics needs. Some topics are risk avoidance via data consolidation, continuous availability, simplified disaster recovery, IBM Smart Analytics Optimizer, reduced network bandwidth requirements, and the unique virtualization and resource management capabilities of System z LPAR, z/VM® and WLM. Part I also provides some of the common System z co-location topologies along with an explanation of the general pros and cons of each. This would be useful input for an architect to understand where a customer is today and where they*

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*might consider moving to. Part II, "Project environment" covers the environment, products, workloads, workload drivers, and data models implemented for this study. The environment consisted of a logically partitioned z10™ 32way, running z/VM, Linux®, and z/OS operating system instances. On those instances we ran products such as z/OS DB2 V9, IBM Cognos® Business Intelligence Version 8.4 for Linux on System z, InfoSphere™ Warehouse for System z, InfoSphere Change Data Capture, z/OS WebSphere® V7, Tivoli® Omegamon for DB2 Performance expert. Utilizing these products we created transactional (OLTP), data warehouse query, and*

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*data warehouse refresh workloads. All the workloads were based on an existing web-based transactional Bookstore workload, that's currently utilized for internal testing within the System p® and z labs. While some IBM Cognos BI and ISWz product usage and experiences information is covered in this book, we do not go into the depth typically found in IBM Redbooks publications, since there's another book focused specifically on that IBM® i2® Integrated Law Enforcement is an IBM Smarter Cities® solution that addresses the needs of modern-day law enforcement agencies. It is a solution framework that provides the individual capabilities of the*

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*products that comprise the solution and extended capabilities developed through the synergistic integration of those product components. As a framework, IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new, external systems. In doing so, an organization can respond and adapt to its changing needs. Simply stated, the configuration, integration, and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement. This IBM Redpaper™ publication explains the technology*

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*and the architecture on which the solution is built. Most importantly, this paper enables technical teams to install, configure, and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1.0.1. This paper is targeted to solution architects, system and deployment engineers, security specialists, data management experts, system analysts, software developers and test engineers, and system administrators. Readers of this paper will benefit from the IBM Redguide™ publication "Integrated Law Enforcement: A Holistic Approach to Solving Crime", REDP-5116.*

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*Create custom dashboards and share using IBM Cognos BI 10.1*

*IBM Cognos Dynamic Query*

*How IBM Realizes Business Value from Big Data and Analytics*

*IBM Business Process Manager V8.5 Performance Tuning and Best Practices*

*IBM Cognos 10 Report Studio*

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Maximize the Value of Business Intelligence with IBM Cognos v10 -- Hands-on, from Start to Finish This easy-to-use, hands-on guide brings together all the

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information and insight you need to drive maximum business value from IBM Cognos v10. Long-time IBM Cognos expert and product designer Sangeeta Gautam thoroughly illuminates Cognos BI v10 ' s key capabilities: analysis, query, reporting, and dashboards. Gautam shows how to take full advantage of each key IBM Cognos feature, including brand-new innovations such as Active Reports and the new IBM Cognos Workspace report consumption environment. She concludes by walking you through successfully planning and implementing an integrated business intelligence solution using IBM ' s best-practice methodologies. The first and only guide of its kind, IBM Cognos Business Intelligence

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v10 offers expert insights for BI designers, architects, developers, administrators, project managers, nontechnical end-users, and partners throughout all areas of the business—from sales and marketing to operations and lines of business. If you 're pursuing official IBM Cognos certification, you 'll also find Cognos certification sample questions and information to help you with the certification process. Coverage Includes • Understanding IBM Cognos BI 's components and open, extensible architecture • Working with IBM Cognos key “ studio ” tools: Analysis Studio, Query Studio, Report Studio, and Event Studio • Developing and managing powerful reports that draw on the rich capabilities of IBM



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Cognos Workspace and Workspace Advanced • Designing Star Schema databases and metadata models to answer the questions your organization cares about most • Efficiently maintaining and systematically securing IBM Cognos BI environments and their objects • Using IBM Cognos Connection as your single point of entry to all corporate data • Building interactive, easy-to-manage Active Reports for casual business users • Using new IBM Cognos BI v10.1 Dynamic Query Mode (DQM) to improve performance with complex heterogeneous data • Identifying, exploring, and exploiting hidden data relationships • Creating quick ad hoc queries that deliver fast answers • Establishing user and administrator roles

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This IBM® Redbooks® publication addresses topics to help clients to take advantage of the virtualization strengths of the POWER® platform to solve system resource utilization challenges and maximize system throughput and capacity. This publication examines the tools, utilities, documentation, and other resources available to help technical teams provide business solutions and support for Cognos® Business Intelligence (BI) and Statistical Package for the Social Sciences (SPSS®) on Power Systems™ virtualized environments. This book addresses topics to help address complex high availability requirements, help maximize the availability of systems, and provide expert-

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level documentation to the worldwide support teams. This book strengthens the position of the Cognos and SPSS solutions with a well-defined and documented deployment model within a POWER system virtualized environment. This model provides clients with a planned foundation for security, scaling, capacity, resilience, and optimization. This book is targeted toward technical professionals (BI consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for providing Smart Analytics solutions and support for Cognos and SPSS on Power Systems.

IBM® ILOG® Visualization products allow you to create the most advanced graphical user interfaces for line-of-

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business applications, help users understand their data better, and react to a changing market faster and smarter. This IBM Redbooks® publication describes two IBM Visualization products: IBM ILOG JViews Enterprise and IBM ILOG Elixir® Enterprise. It provides detailed samples and scenarios covering how these products can be integrated with other IBM software such as IBM WebSphere® REST Technology, IBM Cognos®, IBM Mashup Center, IBM WebSphere Business Monitor and Business Space, and IBM WebSphere Dashboard Framework to provide Web 2.0 and Ajax visualization solutions. This book is targeted to application interface developers and programmers who develop highly

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advanced graphical user interfaces using IBM ILOG Visualization products with IBM Cognos, IBM Mashup Center, IBM WebSphere Business Monitor and Business Space, and IBM WebSphere Dashboard Framework. IBM® DB2® with BLU Acceleration is a revolutionary technology that is delivered in DB2 for Linux, UNIX, and Windows Release 10.5. BLU Acceleration delivers breakthrough performance improvements for analytic queries by using dynamic in-memory columnar technologies. Different from other vendor solutions, BLU Acceleration allows the unified computing of OLTP and analytics data inside a single database, therefore, removing barriers and accelerating results for users.

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With observed hundredfold improvement in query response time, BLU Acceleration provides a simple, fast, and easy-to-use solution for the needs of today's organizations; quick access to business answers can be used to gain a competitive edge, lower costs, and more. This IBM Redbooks® publication introduces the concepts of DB2 with BLU Acceleration. It discusses the steps to move from a relational database to using BLU Acceleration, optimizing BLU usage, and deploying BLU into existing analytic solutions today, with an example of IBM Cognos®. This book also describes integration of DB2 with BLU Acceleration into SAP Business Warehouse (SAP BW) and SAP's near-line storage

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solution on DB2. This publication is intended to be helpful to a wide-ranging audience, including those readers who want to understand the technologies and those who have planning, deployment, and support responsibilities.

IBM Business Process Manager V7.5 Production Topologies

Using Social MDM to Drive Deep Customer Insight The Complete Guide

Systems of Insight for Digital Transformation: Using IBM Operational Decision Manager Advanced and Predictive Analytics

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In this IBM® Redbooks® publication we describe how to build an advanced business application from end to end.

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business process and mediation using IBM Business Process Manager - Use IBM Cognos® Business Intelligence to develop business insight In addition, we articulate a testing strategy using IBM Rational® Quality Manager and deployment options using IBM Workload Deployer. Taken together, this book provides comprehensive guidance for building and testing a solution using core IBM Rational, Information Management, WebSphere, Cognos and Business Process Management software. It seeks to demystify the notion that developing and deploying advanced solutions is taxing. This book will appeal to IT architects and

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specialists who seek straightforward guidance on how to build comprehensive solutions. They will be able to adapt these materials to kick-start their own end-to-end projects. This IBM® Redbooks® publication gives an overview of Cloud solutions, followed by detailed information and usage scenarios for IBM CloudBurst® in a System x® environment. Cloud computing can be defined as a style of computing in which dynamically scalable resources, such as CPU, storage, or bandwidth, are provided as a service over the Internet. Cloud computing represents a massively scalable, self-service delivery model where processing, storage, networking, and applications can be

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accessed as services over the Internet. Enterprises can adopt cloud models to improve employee productivity, deploy new products and services faster and reduce operating costs—starting with workloads, such as development and test, virtual desktop, collaboration, and analytics. IBM provides a scalable variety of cloud solutions to meet these needs. This IBM Redbooks publication helps you to tailor an IBM CloudBurst installation on System x to meet virtualized computing requirements in a private cloud environment. This book is intended for IT support personnel who are responsible for customizing IBM CloudBurst to meet business cloud

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computing objectives.

Technology's influence on privacy not only concerns consumers, political leaders, and advocacy groups, but also the software architects who design new products. In this practical guide, experts in data analytics, software engineering, security, and privacy policy describe how software teams can make privacy-protective features a core part of product functionality, rather than add them late in the development process. Ideal for software engineers new to privacy, this book helps you examine privacy-protective information management architectures and their foundational components—building blocks that

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you can combine in many ways. Policymakers, academics, students, and advocates unfamiliar with the technical terrain will learn how these tools can help drive policies to maximize privacy protection. Restrict access to data through a variety of application-level controls Use security architectures to avoid creating a single point of trust in your systems Explore federated architectures that let users retrieve and view data without compromising data security Maintain and analyze audit logs as part of comprehensive system oversight Examine case studies to learn how these building blocks help solve real problems Understand the role and responsibilities of a Privacy

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Engineer for maintaining your privacy architecture  
During the 21st century business environments have become more complex and dynamic than ever before. Companies operate in a world of change influenced by globalisation, volatile markets, legal changes and technical progress. As a result, they have to handle growing volumes of data and therefore require fast storage, reliable data access, intelligent retrieval of information and automated decision-making mechanisms, all provided at the highest level of service quality. Successful enterprises are aware of these challenges and efficiently respond to the dynamic environment in which

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their business operates. Business Intelligence (BI) and Performance Management (PM) offer solutions to these challenges and provide techniques to enable effective business change. The important aspects of both topics are discussed within this state-of-the-art volume. It covers the strategic support, business applications, methodologies and technologies from the field, and explores the benefits, issues and challenges of each. Issues are analysed from many different perspectives, ranging from strategic management to data technologies, and the different subjects are complimented and illustrated by numerous examples of industrial applications. Contributions are

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authored by leading academics and practitioners representing various universities, research centres and companies worldwide. Their experience covers multiple disciplines and industries, including finance, construction, logistics, and public services, amongst others. Business Intelligence and Performance Management is a valuable source of reference for graduates approaching MSc or PhD programs and for professionals in industry researching in the fields of BI and PM for industrial application.

IBM Cognos Business Intelligence V10.1: Intelligence Unleashed



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Business Intelligence and Performance Management

IBM Cognos BI v10.2 Administration Essentials

IBM CloudBurst on System x

Analytics Across the Enterprise

***The IBM® DB2® Analytics Accelerator Version 3.1 for IBM z/OS® (simply called Accelerator in this book) is a union of the IBM System z® quality of service and IBM Netezza® technology to accelerate complex queries in a DB2 for z/OS highly secure and available environment. Superior performance and scalability with rapid appliance deployment provide an ideal solution for complex analysis. In this IBM Redbooks® publication, we provide technical decision-makers with a broad***

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***understanding of the benefits of Version 3.1 of the Accelerator's major new functions. We describe their installation and the advantages to existing analytical processes as measured in our test environment. We also describe the IBM zEnterprise® Analytics System 9700, a hybrid System z solution offering that is surrounded by a complete set of optional packs to enable customers to custom tailor the system to their unique needs..***

***With IBM® Cognos® Business Intelligence, you have a proven enterprise business intelligence (BI) platform with an open-data access strategy. Because Cognos Business Intelligence uses a business language that is relevant to consumers, you can pull data from various data sources. Then, you can package it into a business model and***

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***make it available to consumers in various interfaces that are suited to the task. IBM Cognos Dynamic Cubes, which is a feature of the Cognos Business Intelligence V10.2.2 software, complements the existing query engine. As explained in this IBM Redbooks® Solution Guide, it extends Cognos scalability to enable speed-of-thought analytics over terabytes of enterprise data, without being forced to rely on a new data-warehousing appliance. With this capability, which adds a new level of query intelligence, you can unleash the power of your large enterprise data warehouse.***

***Building on the business intelligence (BI) framework and capabilities that are outlined in InfoSphere Warehouse: A Robust Infrastructure for Business Intelligence,***

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***SG24-7813, this IBM® Redbooks® publication focuses on the new business insight challenges that have arisen in the last few years and the new technologies in IBM DB2® 10 for Linux, UNIX, and Windows that provide powerful analytic capabilities to meet those challenges. This book is organized in to two parts. The first part provides an overview of data warehouse infrastructure and DB2 Warehouse, and outlines the planning and design process for building your data warehouse. The second part covers the major technologies that are available in DB2 10 for Linux, UNIX, and Windows. We focus on functions that help you get the most value and performance from your data warehouse. These technologies include database partitioning, intrapartition***

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***parallelism, compression, multidimensional clustering, range (table) partitioning, data movement utilities, database monitoring interfaces, infrastructures for high availability, DB2 workload management, data mining, and relational OLAP capabilities. A chapter on BLU Acceleration gives you all of the details about this exciting DB2 10.5 innovation that simplifies and speeds up reporting and analytics. Easy to set up and self-optimizing, BLU Acceleration eliminates the need for indexes, aggregates, or time-consuming database tuning to achieve top performance and storage efficiency. No SQL or schema changes are required to take advantage of this breakthrough technology. This book is primarily intended for use by IBM employees, IBM clients, and IBM***

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### ***Business Partners.***

***Regarding online transaction processing (OLTP) workloads, IBM® z Systems™ platform, with IBM DB2®, data sharing, Workload Manager (WLM), geoplex, and other high-end features, is the widely acknowledged leader. Most customers now integrate business analytics with OLTP by running, for example, scoring functions from transactional context for real-time analytics or by applying machine-learning algorithms on enterprise data that is kept on the mainframe. As a result, IBM adds investment so clients can keep the complete lifecycle for data analysis, modeling, and scoring on z Systems control in a cost-efficient way, keeping the qualities of services in availability, security, reliability that z Systems***

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***solutions offer. Because of the changed architecture and tighter integration, IBM has shown, in a customer proof-of-concept, that a particular client was able to achieve an orders-of-magnitude improvement in performance, allowing that client's data scientist to investigate the data in a more interactive process. Open technologies, such as Predictive Model Markup Language (PMML) can help customers update single components instead of being forced to replace everything at once. As a result, you have the possibility to combine your preferred tool for model generation (such as SAS Enterprise Miner or IBM SPSS® Modeler) with a different technology for model scoring (such as Zementis, a company focused on PMML scoring). IBM SPSS Modeler is a leading data mining***

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***workbench that can apply various algorithms in data preparation, cleansing, statistics, visualization, machine learning, and predictive analytics. It has over 20 years of experience and continued development, and is integrated with z Systems. With IBM DB2 Analytics Accelerator 5.1 and SPSS Modeler 17.1, the possibility exists to do the complete predictive model creation including data transformation within DB2 Analytics Accelerator. So, instead of moving the data to a distributed environment, algorithms can be pushed to the data, using cost-efficient DB2 Accelerator for the required resource-intensive operations. This IBM Redbooks® publication explains the overall z Systems architecture, how the components can be installed and customized, how the***



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***new IBM DB2 Analytics Accelerator loader can help efficient data loading for z Systems data and external data, how in-database transformation, in-database modeling, and in-transactional real-time scoring can be used, and what other related technologies are available. This book is intended for technical specialists and architects, and data scientists who want to use the technology on the z Systems platform. Most of the technologies described in this book require IBM DB2 for z/OS®. For acceleration of the data investigation, data transformation, and data modeling process, DB2 Analytics Accelerator is required. Most value can be achieved if most of the data already resides on z Systems platforms, although adding external data (like from social***

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*sources) poses no problem at all.*

*IBM Cognos Dynamic Cubes*

*Implementing an Optimized Analytics Solution on IBM Power Systems*

*IBM Watson Content Analytics: Discovering Actionable Insight from Your Content*

*Beyond Big Data*

*Getting Started with Data Science*

***IBM® Cognos® Business Intelligence (BI) helps organizations meet strategic objectives and provides real value for the business by delivering the information everyone needs while also reducing the***

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***burden on IT. This IBM Redbooks® publication addresses IBM Cognos Business Intelligence V10.1. You can use this book to: - Understand core features of IBM Cognos BI V10.1 - Realize the full potential of IBM Cognos BI - Learn by example with practical scenarios This book uses a fictional business scenario to demonstrate the power of IBM Cognos BI. The book is primarily focused on the roles of Advanced Business User, Professional Report Author, Modeler,***

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***Administrator, and IT Architect. This IBM® Redbooks® publication addresses topics to use the virtualization strengths of the IBM POWER8® platform to solve clients' system resource utilization challenges and maximize systems' throughput and capacity. This book addresses performance tuning topics that will help answer clients' complex analytic workload requirements, help maximize systems' resources, and provide expert-level documentation to***

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***transfer the how-to-skills to the worldwide teams. This book strengthens the position of IBM Analytics and Big Data solutions with a well-defined and documented deployment model within a POWER8 virtualized environment, offering clients a planned foundation for security, scaling, capacity, resilience, and optimization for analytics workloads. This book is targeted toward technical professionals (analytics consultants, technical support staff, IT Architects,***

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***and IT Specialists) who are responsible for providing analytics solutions and support on IBM Power Systems™. The IBM® DB2® Analytics Accelerator Version 2.1 for IBM z/OS® (also called DB2 Analytics Accelerator or Query Accelerator in this book and in DB2 for z/OS documentation) is a marriage of the IBM System z® Quality of Service and Netezza® technology to accelerate complex queries in a DB2 for z/OS highly secure and available environment.***

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***Superior performance and scalability with rapid appliance deployment provide an ideal solution for complex analysis. This IBM Redbooks® publication provides technical decision-makers with a broad understanding of the IBM DB2 Analytics Accelerator architecture and its exploitation by documenting the steps for the installation of this solution in an existing DB2 10 for z/OS environment. In this book we define a business analytics scenario, evaluate the potential benefits***

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***of the DB2 Analytics Accelerator appliance, describe the installation and integration steps with the DB2 environment, evaluate performance, and show the advantages to existing business intelligence processes.***