

Access Free Pentaho Data Integration Beginner's Guide, Second Edition

Pentaho Data Integration Beginner's Guide, Second Edition

Your all-in-one resource for using Pentaho with MySQL for Business Intelligence and Data Warehousing Open-source Pentaho provides business intelligence (BI) and data warehousing solutions at a fraction of the cost of proprietary solutions. Now you can take advantage of Pentaho for your business needs with this practical guide written by two major

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participants in the Pentaho community. The book covers all components of the Pentaho BI Suite. You'll learn to install, use, and maintain Pentaho-and find plenty of background discussion that will bring you thoroughly up to speed on BI and Pentaho concepts. Of all available open source BI products, Pentaho offers the most comprehensive toolset and is the fastest growing open source product suite Explains how to build and load a data warehouse with Pentaho Kettle for data integration/ETL, manually create JFree

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(pentahoreporting services) reports using direct SQL queries, and createMondrian (Pentaho analysis services) cubes and attach them to aJPivot cube browser Review deploying reports, cubes and metadata to the Pentahoplatform in order to distribute BI solutions to end-users Shows how to set up scheduling, subscription and automaticdistribution The companion Web site provides complete source code examples,sample data, and links to related resources.

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Explore, transform, validate, and integrate your data with ease Get started with Pentaho Data Integration from scratch. Enrich your data transformation operations by embedding Java and JavaScript code in PDI transformations. Create a simple but complete Datamart Project that will cover all key features of PDI. Part of Packt's Beginner's Guide series: Each task gradually develops from the previous task with an organized sequence of instructions accompanied with relevant explanation and a set of challenging

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tasks that the reader will be able to accomplish. In Detail Pentaho Data Integration (a.k.a. Kettle) is a full-featured open source ETL (Extract, Transform, and Load) solution. Although PDI is a feature-rich tool, effectively capturing, manipulating, cleansing, transferring, and loading data can get complicated. This book is full of practical examples that will help you to take advantage of Pentaho Data Integration's graphical, drag-and-drop design environment. You will quickly get started with Pentaho Data Integration by

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following the step-by-step guidance in this book. The useful tips in this book will encourage you to exploit powerful features of Pentaho Data Integration and perform ETL operations with ease. Starting with the installation of the PDI software, this book will teach you all the key PDI concepts. Each chapter introduces new features, allowing you to gradually get involved with the tool. First, you will learn to work with plain files, and to do all kinds of data manipulation. Then, the book gives you a primer on databases and

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teaches you how to work with databases inside PDI. Not only that, you'll be given an introduction to data warehouse concepts and you will learn to load data in a data warehouse. After that, you will learn to implement simple and complex processes. Once you've learned all the basics, you will build a simple datamart that will serve to reinforce all the concepts learned through the book. A practical, easy-to-read guide that gives you full understanding of the Pentaho Data Integration tool and shows you how to

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use it to your advantage to manipulate data. The COVID-19 pandemic has brought into sharp focus the need for the collection of data. Such data cannot be collected or provided without medical informatics, documentation and health data management. Nor can health data be evaluated and converted into a useful tool for making the important decisions that affect us all without biometrics and epidemiology, bioinformatics and systems biology. This book presents full papers from GMDS & CEN-IBS 2020, the first

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joint online conference of the German Association of Medical Informatics, Biometry and Epidemiology (GMDS) and the Central European Network & the International Biometric Society (CEN-IBS), held online between 6 and 11 September 2020. The title of the conference was Bringing Data to Life, a reference to the increasing amount of data in medical research which is inextricably related to the fast-developing digitalization of the health system. Many challenges must be addressed in order to make use of and benefit

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from these increasing sources of data, and these can only be faced if all disciplines related to data science work together. The conference aimed to bring together the diverse disciplines within data science, including medical informatics, bioinformatics, biostatistics, epidemiology, public health and medical documentation. Topics covered in the book include central themes relevant to society in general and advances in data technology which support innovations in medical research in particular. The book

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brings together many topics related to the provision and analysis of data in medicine, and will be of interest to all those working in the field.

Over 70 practical recipes to gain operational data intelligence with Splunk Enterprise About This Book This is the most up-to-date book on Splunk 6.3 and teaches you how to tackle real-world operational intelligence scenarios efficiently Get business insights using machine data using this easy-to-follow guide Search, monitor, and analyze your operational

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data skillfully using this recipe-based, practical guide **Who This Book Is For** This book is intended for users of all levels who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool. The recipes provided in this book will appeal to individuals from all facets of business, IT, security, product, marketing, and many more! Also, existing users of Splunk who want to upgrade and get up and running with Splunk 6.3 will find this book invaluable. **What You Will Learn** Use Splunk to gather,

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analyze, and report on data Create dashboards and visualizations that make data meaningful Build an operational intelligence application with extensive features and functionality Enrich operational data with lookups and workflows Model and accelerate data and perform pivot-based reporting Build real-time, scripted, and other intelligence-driven alerts Summarize data for longer term trending, reporting, and analysis Integrate advanced JavaScript charts and leverage Splunk's API In Detail Splunk makes it easy for

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you to take control of your data, and with Splunk Operational Cookbook, you can be confident that you are taking advantage of the Big Data revolution and driving your business with the cutting edge of operational intelligence and business analytics. With more than 70 recipes that demonstrate all of Splunk's features, not only will you find quick solutions to common problems, but you'll also learn a wide range of strategies and uncover new ideas that will make you rethink what operational intelligence means to you and

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your organization. You'll discover recipes on data processing, searching and reporting, dashboards, and visualizations to make data shareable, communicable, and most importantly meaningful. You'll also find step-by-step demonstrations that walk you through building an operational intelligence application containing vital features essential to understanding data and to help you successfully integrate a data-driven way of thinking in your organization. Throughout the book, you'll dive deeper into Splunk, explore

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data models and pivots to extend your intelligence capabilities, and perform advanced searching to explore your data in even more sophisticated ways. Splunk is changing the business landscape, so make sure you're taking advantage of it. Style and approach Splunk is an excellent platform that allows you to make sense of machine data with ease. The adoption of Splunk has been huge and everyone who has gone beyond installing Splunk wants to know how to make most of it. This book will not only teach you

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how to use Splunk in real-world scenarios to get business insights, but will also get existing Splunk users up to date with the latest Splunk 6.3 release.

Big Data For Dummies

Business Intelligence Demystified

*Programming and Problem Solving with ADA
95*

*Develop Rules-based Business Logic Using the
Drools Platform*

Pentaho Data Integration Beginner's Guide

Pentaho Data Integration 4 Cookbook

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Getting Started With Amazon Redshift is a step-by-step, practical guide to the world of Redshift. Learn to load, manage, and query data on Redshift. This book is for CIOs, enterprise architects, developers, and anyone else who needs to get familiar with RedShift. The CIO will gain an understanding of what their technical staff is working on; the technical implementation personnel will get an in-depth view of the technology, and what it will take to implement their own solutions.

Data Mining: Practical Machine Learning

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Tools and Techniques, Third Edition, offers a thorough grounding in machine learning concepts as well as practical advice on applying machine learning tools and techniques in real-world data mining situations. This highly anticipated third edition of the most acclaimed work on data mining and machine learning will teach you everything you need to know about preparing inputs, interpreting outputs, evaluating results, and the algorithmic methods at the heart of successful data mining. Thorough updates reflect the

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technical changes and modernizations that have taken place in the field since the last edition, including new material on Data Transformations, Ensemble Learning, Massive Data Sets, Multi-instance Learning, plus a new version of the popular Weka machine learning software developed by the authors. Witten, Frank, and Hall include both tried-and-true techniques of today as well as methods at the leading edge of contemporary research. The book is targeted at information systems practitioners, programmers, consultants,

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developers, information technology managers, specification writers, data analysts, data modelers, database R&D professionals, data warehouse engineers, data mining professionals. The book will also be useful for professors and students of upper-level undergraduate and graduate-level data mining and machine learning courses who want to incorporate data mining as part of their data management knowledge base and expertise. Provides a thorough grounding in machine learning concepts as well as practical advice on

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applying the tools and techniques to your data mining projects Offers concrete tips and techniques for performance improvement that work by transforming the input or output in machine learning methods Includes downloadable Weka software toolkit, a collection of machine learning algorithms for data mining tasks—in an updated, interactive interface. Algorithms in toolkit cover: data pre-processing, classification, regression, clustering, association rules, visualization Find the right big data solution for your

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business or organization Big data management is one of the major challenges facing business, industry, and not-for-profit organizations. Data sets such as customer transactions for a mega-retailer, weather patterns monitored by meteorologists, or social network activity can quickly outpace the capacity of traditional data management tools. If you need to develop or manage big data solutions, you'll appreciate how these four experts define, explain, and guide you through this new and often confusing concept. You'll learn what it is, why

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it matters, and how to choose and implement solutions that work. Effectively managing big data is an issue of growing importance to businesses, not-for-profit organizations, government, and IT professionals. Authors are experts in information management, big data, and a variety of solutions. Explains big data in detail and discusses how to select and implement a solution, security concerns to consider, data storage and presentation issues, analytics, and much more. Provides essential information in a no-nonsense, easy-to-understand style that is empowering. Big

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Data For Dummies cuts through the confusion and helps you take charge of big data solutions for your organization. We seem to be living in the age of A.I. Everywhere you look, companies are touting their most recent A.I., machine learning, and deep learning breakthroughs, even when they are far short of anything that could be touted as a “breakthrough.” “A.I.” has eclipsed “Blockchain” and “Crypto” as the buzzword of today. Indeed, one of the best ways to raise VC funding is to stick ‘AI’ or ‘ML’ at the front of your prospectus and

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“.ai” at the end of your website. Separating fact from fiction is more important than it has ever been. The A.I. Marketer breaks down A.I., machine learning, and deep learning into five unique use cases—sound, time series, text, image, and video—and also reveals how marketing executives can utilize this powerful technology to help them more finely tune their marketing campaigns, better segment their customers, increase lead generation, and foster strong customer loyalty. Today, “Personalization”—the process of utilizing mobile, social, geo-

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location data, web morphing, context and even affective computing to tailor messages and experiences to an individual interacting with them—is becoming the optimum word in a radically new customer intelligence environment. The A.I. Marketer explains this complex technology in simple to understand terms and then shows how marketers can utilize the psychology of personalization with A.I. to both create more effective marketing campaigns as well as increase customer loyalty. Pearson shows companies how to avoid Adobe's warning of not using

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industrial-age technology in the digital era. Pearson also reveals how to create a platform of technology that seamlessly integrates EDW and real-time streaming data with social media content. Analytical models and neural nets can then be built on both commercial and open source technology to better understand the customer, thereby strengthening the brand and, just as importantly, increasing ROI. Business Intelligence Tools for Small Companies Second Edition

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Business Intelligence and Data Warehousing with Pentaho and MySQL

Pentaho 3.2 Data Integration Beginner's Guide

**Big Data Analytics for Internet of Things
Practical Techniques for Extracting,
Cleaning, Conforming, and Delivering Data**

One of Mark Cuban's top reads for better understanding A.I. (inc.com, 2021) Your comprehensive entry-level guide to machine learning While machine learning expertise doesn't quite mean

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you can create your own Turing Test-proof android—as in the movie Ex Machina—it is a form of artificial intelligence and one of the most exciting technological means of identifying opportunities and solving problems fast and on a large scale. Anyone who masters the principles of machine learning is mastering a big part of our tech future and opening up incredible new directions in careers that include fraud detection,

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optimizing search results, serving real-time ads, credit-scoring, building accurate and sophisticated pricing models—and way, way more. Unlike most machine learning books, the fully updated 2nd Edition of Machine Learning For Dummies doesn't assume you have years of experience using programming languages such as Python (R source is also included in a downloadable form with comments and explanations), but lets you in on the ground floor,

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covering the entry-level materials that will get you up and running building models you need to perform practical tasks. It takes a look at the underlying—and fascinating—math principles that power machine learning but also shows that you don't need to be a math whiz to build fun new tools and apply them to your work and study. Understand the history of AI and machine learning Work with Python 3.8 and TensorFlow 2.x (and R as a

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download) Build and test your own models Use the latest datasets, rather than the worn out data found in other books Apply machine learning to real problems Whether you want to learn for college or to enhance your business or career performance, this friendly beginner's guide is your best introduction to machine learning, allowing you to become quickly confident using this amazing and fast-developing technology that's impacting

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lives for the better all over the world.

Over 70 recipes to solve ETL problems using Pentaho Kettle.

Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect, developer, or production engineer new to Apache

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Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engineers from Confluent and LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability

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guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. Understand publish-subscribe messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure reliable data delivery Get best practices for building data pipelines and applications with Kafka Manage

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Kafka in production, and learn to perform monitoring, tuning, and maintenance tasks Learn the most critical metrics among Kafka's operational measurements Explore how Kafka's stream delivery capabilities make it a perfect source for stream processing systems

Learn how to transition from Excel-based business intelligence (BI) analysis to enterprise stacks of open-source BI tools. Select and implement

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the best free and freemium open-source BI tools for your company's needs and design, implement, and integrate BI automation across the full stack using agile methodologies. Business Intelligence Tools for Small Companies provides hands-on demonstrations of open-source tools suitable for the BI requirements of small businesses. The authors draw on their deep experience as BI consultants, developers, and administrators to guide you through the

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extract-transform-load/data warehousing (ETL/DWH) sequence of extracting data from an enterprise resource planning (ERP) database freely available on the Internet, transforming the data, manipulating them, and loading them into a relational database. The authors demonstrate how to extract, report, and dashboard key performance indicators (KPIs) in a visually appealing format from the relational database management system (RDBMS). They model the

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selection and implementation of free and freemium tools such as Pentaho Data Integrator and Talend for ELT, Oracle XE and MySQL/MariaDB for RDBMS, and QlikSense, Power BI, and MicroStrategy Desktop for reporting. This richly illustrated guide models the deployment of a small company BI stack on an inexpensive cloud platform such as AWS. What You'll Learn You will learn how to manage, integrate, and automate the processes of BI by selecting and

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implementing tools to: Implement and manage the business intelligence/data warehousing (BI/DWH) infrastructure Extract data from any enterprise resource planning (ERP) tool Process and integrate BI data using open-source extract-transform-load (ETL) tools Query, report, and analyze BI data using open-source visualization and dashboard tools Use a MOLAP tool to define next year's budget, integrating real data with target scenarios Deploy

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BI solutions and big data experiments inexpensively on cloud platforms Who This Book Is For Engineers, DBAs, analysts, consultants, and managers at small companies with limited resources but whose BI requirements have outgrown the limitations of Excel spreadsheets; personnel in mid-sized companies with established BI systems who are exploring technological updates and more cost-efficient solutions Liferay Portal Performance Best

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Practices

Learn Power BI

Real-time 3D Character Animation with Visual C++

Data Science For Dummies

Building Digital Experience Platforms

Data Mining: Practical Machine Learning Tools and Techniques

Practical SQL is an approachable and fast-paced guide to SQL (Structured Query Language), the standard programming language for defining, organizing, and exploring data

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in relational databases. The book focuses on using SQL to find the story your data tells, with the popular open-source database PostgreSQL and the pgAdmin interface as its primary tools. You'll first cover the fundamentals of databases and the SQL language, then build skills by analyzing data from the U.S. Census and other federal and state government agencies. With exercises and real-world examples in each chapter, this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently. You'll

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learn how to: - Create databases and related tables using your own data - Define the right data types for your information - Aggregate, sort, and filter data to find patterns - Use basic math and advanced statistical functions - Identify errors in data and clean them up - Import and export data using delimited text files - Write queries for geographic information systems (GIS) - Create advanced queries and automate tasks Learning SQL doesn't have to be dry and complicated. Practical SQL delivers clear examples with an easy-to-follow approach to teach you the tools you need to build and manage your own

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databases. This book uses PostgreSQL, but the SQL syntax is applicable to many database applications, including Microsoft SQL Server and MySQL.

Part of Packt's Beginner's Guide series, each chapter follows the creation of a fictional neighbourhood site to demonstrate an aspect of Liferay portal with practical examples, screenshots, and step-by-step instructions. All you need in order to benefit from the Liferay Beginner's Guide is programming experience. No prior knowledge of Liferay is required, although experienced Liferay portal programmers who need to get up to speed with

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its latest features will also find this book useful.

CD-ROM contains: Examples for text --

Toon3DCreator 1.7 with full source code.

This is a Cookbook with easy-to-follow recipes, containing practical and detailed examples which are all fully backed up with code, illustrations, and tips to dig deep into Backbone.js. This book is great for JavaScript developers who want to learn how to build advanced frontend applications with the Backbone.js framework. This book can be used in educational institutions to teach students how to build frontend applications

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in an MVC manner. It's assumed that you have some experience in jQuery, and are familiar with HTML.

Pentaho Data Integration Cookbook

Pentaho 3.2 Data Integration

Practical SQL

Splunk Operational Intelligence Cookbook

Mondrian in Action

Pentaho Kettle Solutions

Big Data: Principles and Paradigms

captures the state-of-the-art research on the architectural aspects, technologies, and applications of Big Data. The book

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identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. To help realize Big Data's full potential, the book addresses numerous challenges, offering the conceptual and technological solutions for tackling them. These challenges include life-cycle data management, large-scale storage, flexible processing infrastructure, data modeling, scalable machine learning, data analysis algorithms, sampling techniques, and

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privacy and ethical issues. Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and industry

Get productive quickly with Pentaho Data Integration Key Features Take away the pain of starting with a complex and powerful system Simplify your data

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transformation and integration work
Explore, transform, and validate your data
with Pentaho Data Integration Book
Description Pentaho Data Integration(PDI)
is an intuitive and graphical environment
packed with drag and drop design and
powerful Extract-Transform-Load (ETL)
capabilities. Given its power and
flexibility, initial attempts to use the
Pentaho Data Integration tool can be
difficult or confusing. This book is the
ideal solution. This book reduces your
learning curve with PDI. It provides the

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guidance needed to make you productive, covering the main features of Pentaho Data Integration. It demonstrates the interactive features of the graphical designer, and takes you through the main ETL capabilities that the tool offers. By the end of the book, you will be able to use PDI for extracting, transforming, and loading the types of data you encounter on a daily basis. What you will learn Design, preview and run transformations in Spoon Run transformations using the Pan utility Understand how to obtain data from

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different types of files Connect to a database and explore it using the database explorer Understand how to transform data in a variety of ways Understand how to insert data into database tables Design and run jobs for sequencing tasks and sending emails Combine the execution of jobs and transformations Who this book is for This book is for software developers, business intelligence analysts, and others involved or interested in developing ETL solutions, or more generally, doing any kind of data manipulation.

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Create advanced reports, including cross tabs, sub-reports, and charts that connect to practically any data source using open source Pentaho Reporting.

Summary Mondrian in Action teaches business users and developers how to use Mondrian and related tools for strategic business analysis. You'll learn how to design and populate a data warehouse and present the data via a multidimensional model. You'll follow examples showing how to create a Mondrian schema and then expand it to add basic security based on

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the users' roles. About the Technology Mondrian is an open source, lightning-fast data analysis engine designed to help you explore your business data and perform speed-of-thought analysis. Mondrian can be integrated into a wide variety of business analysis applications and learning it requires no specialized technical knowledge. About this Book Mondrian in Action teaches you to use Mondrian for strategic business analysis. In it, you'll learn how to organize and present data in a multidimensional manner. You'll follow

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apt and thoroughly explained examples showing how to create a Mondrian schema and then expand it to add basic security based on users' roles. Developers will discover how to integrate Mondrian using its olap4j Java API and web service calls via XML for Analysis. Written for developers building data analysis solutions. Appropriate for tech-savvy business users and DBAs needing to query and report on data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning

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Publications. What's Inside Mondrian from the ground up—no experience required A primer on business analytics Using Mondrian with a variety of leading applications Optimizing and restricting business data for fast, secure analysis About the Authors William D. Back is an Enterprise Architect and Director of Pentaho Services. Nicholas Goodman is a Business Intelligence pro who has authored training courses on OLAP and Mondrian. Julian Hyde founded Mondrian and is the project's lead developer. Table of

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Contents Beyond reporting: business analytics Mondrian: a first look Creating the data mart Multidimensional modeling: making analytics data accessible How schemas grow Securing data Maximizing Mondrian performance Dynamic security Working with Mondrian and Pentaho Developing with Mondrian Advanced analytics Big Data Drools JBoss Rules 5.0 Developer's Guide Proceedings of the Joint Annual Meeting of the German Association of Medical

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Informatics, Biometry and Epidemiology (gmds E.V.) and the Central European Network - International Biometric Society (CEN-IBS) 2020 in Berlin, Germany

German Medical Data Sciences: Bringing Data to Life

The A.I. Marketer

Machine Learning For Dummies

Data is arriving faster than you can process it and the overall volumes keep growing at a rate that keeps you awake at night. Hadoop can help you tame the data beast. Effective use of Hadoop however requires a mixture of

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programming, design, and system administration skills. "Hadoop Beginner's Guide" removes the mystery from Hadoop, presenting Hadoop and related technologies with a focus on building working systems and getting the job done, using cloud services to do so when it makes sense. From basic concepts and initial setup through developing applications and keeping the system running as the data grows, the book gives the understanding needed to effectively use Hadoop to solve real world problems. Starting with the basics of installing and configuring Hadoop, the book explains how to develop applications, maintain the system, and how to use additional products to

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integrate with other systems. While learning different ways to develop applications to run on Hadoop the book also covers tools such as Hive, Sqoop, and Flume that show how Hadoop can be integrated with relational databases and log collection. In addition to examples on Hadoop clusters on Ubuntu uses of cloud services such as Amazon, EC2 and Elastic MapReduce are covered.

Cowritten by Ralph Kimball, the world's leading data warehousing authority, whose previous books have sold more than 150,000 copies Delivers real-world solutions for the most time- and labor-intensive portion of data warehousing-data staging, or the extract, transform, load

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(ETL) process Delineates best practices for extracting data from scattered sources, removing redundant and inaccurate data, transforming the remaining data into correctly formatted data structures, and then loading the end product into the data warehouse Offers proven time-saving ETL techniques, comprehensive guidance on building dimensional structures, and crucial advice on ensuring data quality

This book focuses on teaching you by example. The book walks you through every aspect of Pentaho Data Integration, giving systematic instructions in a friendly style, allowing you to learn in front of your computer,

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playing with the tool. The extensive use of drawings and screenshots make the process of learning Pentaho Data Integration easy. Throughout the book, numerous tips and helpful hints are provided that you will not find anywhere else. This book is a must-have for software developers, database administrators, IT students, and everyone involved or interested in developing ETL solutions, or, more generally, doing any kind of data manipulation. Those who have never used Pentaho Data Integration will benefit most from the book, but those who have, they will also find it useful. This book is also a good starting point for database administrators, data warehouse designers,

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architects, or anyone who is responsible for data warehouse projects and needs to load data into them.

"Pentaho Data Integration (a.k.a. Kettle) is a full-featured open source ETL (Extract, Transform, and Load) solution. Although PDI is a feature-rich tool, effectively capturing, manipulating, cleansing, transferring, and loading data can get complicated. This book is full of practical examples that will help you to take advantage of Pentaho Data Integration's graphical, drag-and-drop design environment. You will quickly get started with Pentaho Data Integration by following the step-by-step guidance in this book. The useful tips in this book will encourage you to exploit

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powerful features of Pentaho Data Integration and perform ETL operations with ease."--Resource description p.

Pentaho 5.0 Reporting By Example Beginner's Guide

An end-to-end guide to exploring, transforming, and integrating your data across multiple sources

The Data Warehouse ETL Toolkit

Real-Time Data and Stream Processing at Scale

Learning Pentaho Data Integration 8 CE

A step-by-step tutorial on implementing Liferay- based portals to learn performance

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best practices. The book is good for Liferay portal developers and architects who want to learn performance best practices for implementing Liferay-based solutions. It is assumed that you have a working knowledge of the Liferay portal.

BIG DATA ANALYTICS FOR INTERNET OF THINGS Discover the latest developments in IoT Big Data with a new resource from established and emerging leaders in the field. **Big Data Analytics for Internet of Things** delivers a comprehensive overview of all

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aspects of big data analytics in Internet of Things (IoT) systems. The book includes discussions of the enabling technologies of IoT data analytics, types of IoT data analytics, challenges in IoT data analytics, demand for IoT data analytics, computing platforms, analytical tools, privacy, and security. The distinguished editors have included resources that address key techniques in the analysis of IoT data. The book demonstrates how to select the appropriate techniques to unearth valuable insights from IoT data and offers

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novel designs for IoT systems. With an abiding focus on practical strategies with concrete applications for data analysts and IoT professionals, Big Data Analytics for Internet of Things also offers readers: A thorough introduction to the Internet of Things, including IoT architectures, enabling technologies, and applications An exploration of the intersection between the Internet of Things and Big Data, including IoT as a source of Big Data, the unique characteristics of IoT data, etc. A discussion of the IoT data

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analytics, including the data analytical requirements of IoT data and the types of IoT analytics, including predictive, descriptive, and prescriptive analytics A treatment of machine learning techniques for IoT data analytics Perfect for professionals, industry practitioners, and researchers engaged in big data analytics related to IoT systems, Big Data Analytics for Internet of Things will also earn a place in the libraries of IoT designers and manufacturers interested in facilitating the efficient implementation of data analytics

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strategies.

Create reports and solve common report problems with minimal fuss. About This Book Use this unique book to master the basics and advanced features of Pentaho 8 Reporting. A book showing developers and analysts with IT skills how to create and use the best possible reports using the Pentaho platform. Written with a very practical approach: full of tutorials and practical examples (source code included). Who This Book Is For This book is written for two types of professionals and

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students: Information Technologists with a basic knowledge of Databases and Java Developers with medium seniority. Developers will be interested to discover how to embed reports in a third-party Java application. What You Will Learn The basics of Pentaho Reporting (Designer and SDK) and its initial setup. Develop the most attractive reports on top of a wide range of data sources. Perform detailed customization of layout, parameterization, internationalization, behaviors, and more for your custom reports

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developed with Pentaho Reporting. Integrate Pentaho reports into third-party Java application with full control over interactions, layout, and behavior in general. Use Pentaho reports in the other components of the Pentaho Suite (BA Platform and PDI). In Detail This hands-on tutorial, filled with exercises and examples, introduces the reader to a variety of concepts within Pentaho Reporting. With screenshots that show you how reports look at design time as well as how they should look when rendered as PDF, Excel, HTML,

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Text, Rich-Text-File, XML, and CSV, this book also contains complete example source code that you can copy and paste into your environment to get up-and-running quickly. Updated to cover the features of Pentaho 8, this book will teach you everything you need to know to build fast, efficient reports using Pentaho. If your interest lies in the technical details of creating reports and you want to see how to solve common reporting problems with a minimum of fuss, this is the book for you. Style and approach A step-by-step guide

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covering technical topics relating to environments, best practices, and source code, to enable the reader to assemble the best reports and use them in existing Java applications.

Clear your doubts about Business Intelligence and start your new journey

KEY FEATURES

- Includes successful methods and innovative ideas to achieve success with BI.

- Vendor-neutral, unbiased, and based on experience.
- Highlights practical challenges in BI journeys.

- Covers financial aspects along with technical

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aspects. □ Showcases multiple BI organization models and the structure of BI teams.

DESCRIPTION The book demystifies misconceptions and misinformation about BI. It provides clarity to almost everything related to BI in a simplified and unbiased way. It covers topics right from the definition of BI, terms used in the BI definition, coinage of BI, details of the different main uses of BI, processes that support the main uses, side benefits, and the level of importance of BI, various types of BI based on various

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parameters, main phases in the BI journey and the challenges faced in each of the phases in the BI journey. It clarifies myths about self-service BI and real-time BI. The book covers the structure of a typical internal BI team, BI organizational models, and the main roles in BI. It also clarifies the doubts around roles in BI. It explores the different components that add to the cost of BI and explains how to calculate the total cost of the ownership of BI and ROI for BI. It covers several ideas, including unconventional ideas

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to achieve BI success and also learn about IBI. It explains the different types of BI architectures, commonly used technologies, tools, and concepts in BI and provides clarity about the boundary of BI w.r.t technologies, tools, and concepts. The book helps you lay a very strong foundation and provides the right perspective about BI. It enables you to start or restart your journey with BI. WHAT YOU WILL LEARN

- Builds a strong conceptual foundation in BI.
- Gives the right perspective and clarity on BI uses, challenges, and

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architectures. □ Enables you to make the right decisions on the BI structure, organization model, and budget. □ Explains which type of BI solution is required for your business. □ Applies successful BI ideas. WHO THIS BOOK IS FOR This book is a must-read for business managers, BI aspirants, CxOs, and all those who want to drive the business value with data-driven insights. TABLE OF CONTENTS 1. What is Business Intelligence? 2. Why do Businesses need BI? 3. Types of Business Intelligence 4. Challenges in Business

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Intelligence 5. Roles in Business Intelligence 6. Financials of Business Intelligence 7. Ideas for Success with BI 8. Introduction to IBI 9. BI Architectures 10. Demystify Tech, Tools, and Concepts in BI

Pentaho Solutions

Expert Oracle Database Architecture

Learning Ceph

Hadoop Beginner's Guide

A beginner's guide to developing interactive business intelligence solutions using Microsoft Power BI

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A Guide to Free and Low-Cost Solutions
Programming and Problem Solving with Ada 95 provides a solid introduction to programming while introducing the capabilities of Ada 95 and its syntax without overwhelming the student. The book focuses on the development of good programming habits. This text offers superior pedagogy that has long defined computer science education, including problem solving case studies, testing and debugging sections, quick checks,

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exam preparation, programming warm-up exercises, and programming problems. The extensive coverage of material in such a student-friendly resource means that more rigor, more theory, greater use of abstraction and modeling, and the earlier application of software engineering principles can be employed. Now in its third edition, this best-selling book continues to bring you some of the best thinking on how to apply Oracle Database to produce

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scalable applications that perform well and deliver correct results. Tom Kyte and Darl Kuhn share a simple philosophy: "you can treat Oracle as a black box and just stick data into it, or you can understand how it works and exploit it as a powerful computing environment." If you choose the latter, then you'll find that there are few information management problems that you cannot solve quickly and elegantly. This fully revised third edition covers

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the developments up to Oracle Database 12c. Significant new content is included surrounding Oracle's new cloud feature set, and especially the use of pluggable databases. Each feature is taught in a proof-by-example manner, not only discussing what it is, but also how it works, how to implement software using it, and the common pitfalls associated with it. Don't treat Oracle Database as a black-box. Get this book. Get under the hood.

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Turbo-charge your career. Revised to cover Oracle Database 12c Proof-by-example approach: Let the evidence be your guide Dives deeply into Oracle Database's most powerful features

A complete guide to Pentaho Kettle, the Pentaho Data Integration toolset for ETL This practical book is a complete guide to installing, configuring, and managing Pentaho Kettle. If you're a database administrator or developer, you'll first get up to speed on Kettle

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basics and how to apply Kettle to create ETL solutions—before progressing to specialized concepts such as clustering, extensibility, and data vault models. Learn how to design and build every phase of an ETL solution. Shows developers and database administrators how to use the open-source Pentaho Kettle for enterprise-level ETL processes (Extracting, Transforming, and Loading data) Assumes no prior knowledge of Kettle or ETL,

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and brings beginners thoroughly up to speed at their own pace Explains how to get Kettle solutions up and running, then follows the 34 ETL subsystems model, as created by the Kimball Group, to explore the entire ETL lifecycle, including all aspects of data warehousing with Kettle Goes beyond routine tasks to explore how to extend Kettle and scale Kettle solutions using a distributed "cloud" Get the most out of Pentaho Kettle and your data

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warehousing with this detailed guide—from simple single table data migration to complex multisystem clustered data integration tasks. Pentaho Data Integration Cookbook Second Edition is written in a cookbook format, presenting examples in the style of recipes. This allows you to go directly to your topic of interest, or follow topics throughout a chapter to gain a thorough in-depth knowledge. Pentaho Data Integration

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Cookbook Second Edition is designed for developers who are familiar with the basics of Kettle but who wish to move up to the next level. It is also aimed at advanced users that want to learn how to use the new features of PDI as well as and best practices for working with Kettle.

Liferay Beginner's Guide

Pentaho Data Integration Quick Start Guide

Getting Started with Amazon Redshift

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Pentaho 8 Reporting for Java Developers
JavaFX A Beginners Guide

Create ETL processes using Pentaho

Use digital experience platforms (DXP) to improve your development productivity and release timelines.

Leverage the pre-integrated feature sets of DXPs in your organization's digital transformation journey to quickly develop a personalized, secure, and robust enterprise platform. In this book the authors examine various features of DXPs and provide rich insights into building each layer in a digital platform. Proven best practices are presented with examples for designing and building

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layers. A special focus is provided on security and quality attributes needed for business-critical enterprise applications. The authors cover modern and emerging digital trends such as Blockchain, IoT, containers, chatbots, artificial intelligence, and more. The book is divided into five parts related to requirements/design, development, security, infrastructure, and case study. The authors employ proven real-world methods, best practices, and security and integration techniques derived from their rich experience. An elaborate digital transformation case study for a banking application is included. What You'll Learn Develop a digital experience platform from end to end Understand best practices and

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proven methods for designing overall architecture, user interface and integration components, security, and infrastructure
Study real-world cases, including an elaborate digital transformation building an enterprise platform for a banking application
Know the open source tools and technology frameworks that can be used to build DXPs
Who This Book Is For Web developers, full stack developers, digital enthusiasts, digital project managers, and architects

Pentaho 3.2 Data Integration Beginner's Guide
Packt Publishing Ltd

Essential Skills--Made Easy Create immersive, interactive environments for any platform. JavaFX: A

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Beginner's Guide starts by explaining the technology behind JavaFX and quickly moves on to installing the JavaFX development environment and tools, including the JavaFX SDK, the Java SE JDK, and NetBeans. Then, you'll learn how to develop desktop, browser, and mobile applications with ease. The book covers effects and transformations, animation, events, and Swing components. Techniques for creating custom modes, embedding video and music, using JavaFX layouts, and styling with CSS are also discussed. Get started using JavaFX right away with help from this fast-paced tutorial. Designed for Easy Learning: Key Skills & Concepts--Chapter-opening lists of specific skills

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covered in the chapter Ask the Expert--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show you how to apply your skills Notes--Extra information related to the topic being covered Tips--Helpful reminders or alternate ways of doing things Annotated Syntax--Example code with commentary that describes the programming techniques being illustrated

Solve business challenges with Microsoft Power BI's advanced visualization and data analysis techniques Key Features Create effective storytelling reports by implementing simple-to-intermediate Power BI features Develop powerful analytical models to extract key

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insights for changing business needs Build, publish, and share impressive dashboards for your organization

Book Description To succeed in today's transforming business world, organizations need business intelligence capabilities to make smarter decisions faster than ever before. This Power BI book is an entry-level guide that will get you up and running with data modeling, visualization, and analytical techniques from scratch. You'll find this book handy if you want to get well-versed with the extensive Power BI ecosystem. You'll start by covering the basics of business intelligence and installing Power BI. You'll then learn the wide range of Power BI features to unlock business insights. As you progress,

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the book will take you through how to use Power Query to ingest, cleanse, and shape your data, and use Power BI DAX to create simple to complex calculations. You'll also be able to add a variety of interactive visualizations to your reports to bring your data to life. Finally, you'll gain hands-on experience in creating visually stunning reports that speak to business decision makers, and see how you can securely share these reports and collaborate with others. By the end of this book, you'll be ready to create simple, yet effective, BI reports and dashboards using the latest features of Power BI. What you will learn

Explore the different features of Power BI to create interactive dashboards Use the Query Editor to

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import and transform data Perform simple and complex DAX calculations to enhance analysis Discover business insights and tell a story with your data using Power BI Explore data and learn to manage datasets, dataflows, and data gateways Use workspaces to collaborate with others and publish your reports Who this book is for If you ' re an IT manager, data analyst, or BI user new to using Power BI for solving business intelligence problems, this book is for you. You ' ll also find this book useful if you want to migrate from other BI tools to create powerful and interactive dashboards. No experience of working with Power BI is expected.

A Beginner's Guide to Storytelling with Data

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Kafka: The Definitive Guide

Understand and Clear All Your Doubts and Misconceptions About BI (English Edition)

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Beginner's Guide

A Guide to Developing Next-Generation Enterprise Applications

Get up and running with the Pentaho Data Integration tool using this hands-on, easy-to-read guide About This Book Manipulate your data by exploring, transforming, validating, and integrating it using Pentaho Data Integration 8 CE A comprehensive guide exploring the features of Pentaho Data

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Integration & CE Connect to any database engine, explore the databases, and perform all kind of operations on relational databases Who This Book Is For This book is a must-have for software developers, business intelligence analysts, IT students, or anyone involved or interested in developing ETL solutions. If you plan on using Pentaho Data Integration for doing any data manipulation task, this book will help you as well. This book is also a good starting point for data warehouse designers, architects, or anyone who is responsible for data warehouse projects and needs to load data into them. What You Will Learn Explore the features and capabilities of Pentaho Data Integration & Community Edition Install and get started with PDI Learn the ins and outs of Spoon, the

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graphical designer tool Learn to get data from all kind of data sources, such as plain files, Excel spreadsheets, databases, and XML files Use Pentaho Data Integration to perform CRUD (create, read, update, and delete) operations on relationaldatabases Populate a data mart with Pentaho Data Integration Use Pentaho Data Integration to organize files and folders, run daily processes, deal with errors, and more In Detail Pentaho Data Integration(PDI) is an intuitive and graphical environment packed with drag-and-drop design and powerful Extract-Transform-Load (ETL) capabilities. This book shows and explains the new interactive features of Spoon, the revamped look and feel, and the newest features of the tool including transformations and jobs Executors and the

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invaluable Metadata Injection capability. We begin with the installation of PDI software and then move on to cover all the key PDI concepts. Each of the chapter introduces new features, enabling you to gradually get practicing with the tool. First, you will learn to do all kind of data manipulation and work with simple plain files. Then, the book teaches you how you can work with relational databases inside PDI. Moreover, you will be given a primer on data warehouse concepts and you will learn how to load data in a data warehouse. During the course of this book, you will be familiarized with its intuitive, graphical and drag-and-drop design environment. By the end of this book, you will learn everything you need to know in order to meet your data

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manipulation requirements. Besides, you will be given best practices and advises for designing and deploying your projects. Style and approach Step by step guide filled with practical, real world scenarios and examples.

Discover how data science can help you gain in-depth insight into your business - the easy way! Jobs in data science abound, but few people have the data science skills needed to fill these increasingly important roles. Data Science For Dummies is the perfect starting point for IT professionals and students who want a quick primer on all areas of the expansive data science space. With a focus on business cases, the book explores topics in big data, data science, and data engineering, and how these three areas are combined to

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produce tremendous value. If you want to pick-up the skills you need to begin a new career or initiate a new project, reading this book will help you understand what technologies, programming languages, and mathematical methods on which to focus. While this book serves as a wildly fantastic guide through the broad, sometimes intimidating field of big data and data science, it is not an instruction manual for hands-on implementation. Here's what to expect: Provides a background in big data and data engineering before moving on to data science and how it's applied to generate value Includes coverage of big data frameworks like Hadoop, MapReduce, Spark, MPP platforms, and NoSQL Explains machine learning and many of its algorithms as well as

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artificial intelligence and the evolution of the Internet of Things Details data visualization techniques that can be used to showcase, summarize, and communicate the data insights you generate It's a big, big data world out there—let Data Science For Dummies help you harness its power and gain a competitive edge for your organization.

If you already have basic knowledge of GNU/Linux and storage systems, but have no experience of software-defined storage solutions and Ceph, and are eager to learn about it, this is the book for you. If you are looking for your next career jump as a Ceph administrator, this book is also ideal for you. This is a problem-solution guide that starts with an introduction to a problem and continues with a discussion of

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the possible solution. The book covers best practices when working with Drools. The examples and their solutions are accompanied by plenty of code listings and figures providing a better view of the problem. The book is for Java developers who want to create rules-based business logic using the Drools platform. Basic knowledge of Java is essential.

Building Open Source ETL Solutions with Pentaho Data Integration

Principles and Paradigms

Open source business analytics

Pentaho Reporting 3.5 for Java Developers