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Get productive quickly with Pentaho Data Integration Key Features Take away the pain of starting with a complex and powerful system Simplify your data 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 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 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. Large-Scale 3D Data Integration: Challenges and Opportunities examines the fundamental aspects of 3D geo-information, focusing on the latest developments in 3D GIS (geographic information) and AEC (architecture, engineering, construction) systems. This book addresses policy makers, designers and engineers, and individuals that need to overcome 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, 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, architects, or anyone who is responsible for data warehouse projects and needs to load data into them. The big data era is upon us: data are being generated, analyzed, and used at an unprecedented scale, and data-driven decision making is sweeping through all aspects of society. Since the value of data explodes when it can be linked and fused with other data, addressing the big data integration (BDI) challenge is critical to realizing the promise of big data. BDI differs from traditional data integration along the dimensions of volume, velocity, variety, and veracity. First, not only can data sources contain a huge volume of data, but also the number of data sources is now in the millions. Second, because of the rate at which newly collected data are made available, many of the data sources are very dynamic, and the number of data sources is also rapidly exploding. Third, data sources are extremely heterogeneous in their structure and content, exhibiting considerable variety even for substantially similar entities. Fourth, the data sources are of widely differing qualities, with significant differences in the coverage, accuracy and timeliness of data provided. This book explores the progress that has been made by the data integration community on the topics of schema alignment, record linkage and data fusion in addressing these novel challenges faced by big data integration. Each of these topics is covered in a systematic way: first starting with a quick tour of the topic in the context of traditional data integration, followed by a detailed, example-driven exposition of recent innovative techniques that have been proposed to address the BDI challenges of volume, velocity, variety, and veracity. Finally, it presents merging topics and opportunities that are specific to BDI, identifying promising directions for the data integration community. How do you approach answering queries when your data is stored in multiple databases that were designed independently by different people? This is first comprehensive book on data integration and is written by three of the most respected experts in the field. This book provides an extensive introduction to the theory and concepts underlying today's data integration techniques, with detailed, instruction for their application using concrete examples throughout to explain the concepts. Data integration is the problem of answering queries that span multiple data sources (e.g., databases, web pages). Data integration problems surface in multiple contexts, including enterprise information integration, query processing on the Web, coordination between government agencies and collaboration between scientists. In some cases, data integration is the key bottleneck to making progress in a field. The authors provide a working knowledge of data integration concepts and techniques, giving you the tools you need to develop a complete and concise package of algorithms and applications. Offers a range of data integration solutions enabling you to focus on what is most relevant to the problem at hand Enables you to build your own algorithms and implement your own data integration applications Annotation In this book, Rick van der Lans explains how data virtualization servers work, what techniques to use to optimize access to various data sources and how these products can be applied in different projects. To what extent does management recognize Edge data integration as a tool to increase the results? Is the scope of Edge data integration defined? Who are the people involved in developing and implementing Edge data integration? Does Edge data integration systematically track and analyze outcomes for accountability and quality improvement? How to deal with Edge data integration Changes? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Edge data integration investments work better. This Edge data integration All-Inclusive Self-Assessment enables You to be that person. All the tools you

need to an in-depth Edge data integration Self-Assessment. Featuring new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Edge data integration improvements can be made. In using the questions you will be better able to: - diagnose Edge data integration projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Edge data integration and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Edge data integration Scorecard, you will develop a clear picture of which Edge data integration areas need attention. Your purchase includes access details to the Edge data integration self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. The development and increasingly widespread deployment of high-throughput experimental methods in the life sciences is giving rise to numerous large, complex and valuable data resources. This foundation of experimental data underpins the systematic study of organisms and diseases, which increasingly depends on the development of models of biological systems. The development of these models often requires integration of diverse experimental data resources; once constructed, the models themselves become data and present new integration challenges for tasks such as interpretation, validation and comparison. The Data Integration in the Life Sciences (DILS) Conference series brings together data and knowledge management researchers from the computer science research community with bioinformaticians and computational biologists, to improve the understanding of how emerging data integration techniques can address requirements identified in the life sciences. DILS 2010 was the seventh event in the series and was held in Gothenburg, Sweden during August 25-27, 2010. The associated proceedings contain 14 peer-reviewed papers and 2 invited papers. The sessions addressed ontology engineering, and in particular, evolution, matching and debugging of ontologies, a key component for semantic integration; Web services as an important technology for data integration in the life sciences; data and text mining techniques for discovering and recognizing biomedical entities and relationships between these entities; and information management, introducing data integration solutions for different types of applications related to cancer, systems biology and microarray experimental data, and an approach for integrating ranked data in the life sciences. The book will provide the reader with an understanding of a data integration solution approach that is truly universal, a solution that is "one size fits all." The approach is based on the Universal Data Element Framework (UDEF), an open standard. When using the UDEF for indexing enterprise data, it is analogous to using the Dewey Decimal System for indexing books in a library. In the same way a card catalog and Dewey Decimal System index books enabling a person to find a book in the library, the UDEF provides a standard for indexing data within the enterprise. The UDEF enables a person to discover data and systems to integrate data across multiple applications and enterprises. Once the enterprise data has been indexed with the UDEF, the data is enabled for simpler interoperability with any other data that has been indexed with the UDEF. The time and effort to integrate data between any two applications indexed with the UDEF is substantially reduced; thereby substantially reducing enterprise costs. The book guides the reader into understanding how the UDEF can help any enterprise index their data with the UDEF and build the associated card catalog. It also guides the reader into understanding how they can leverage the UDEF to simplify interoperability between applications. The book includes typical data sharing examples. The book describes and illustrates the six steps that an enterprise should use to reduce costs of data integration while simultaneously improving the quality of the data managed within their applications. Business data integration is a complex problem that must be solved when organizations change or enhance their internal structures. The goal of this book is to present a simple yet thorough resource that describes the challenges of business data integration and the solutions to these challenges such as schema integration, illustrated through an Operational Data Store (ODS) case study. This book contains three sections spanning ten chapters. Section I, Foundational Concepts, will provide you with the necessary basic concepts and discuss schema integration. Section II, Preparation and Design, introduces the case study and we will reverse engineer each of the data sources to create a set of data dictionary reports which will provide us with the meta data we need to apply the schema integration process. Section III, Physical Implementation, will present scripts to populate each of the source databases and spreadsheets and use reports to create Extract, Transform, and Load (ETL) specifications. The ten chapters within these three sections are: • Chapter 1 - Introduction and Roadmap • Chapter 2 - What is an Operational Data Store (ODS)? • Chapter 3 - What is Schema Integration? • Chapter 4 - The Role of the ODS within DW Architectures • Chapter 5 - Reverse Engineering the four Source Schema • Chapter 6 - Designing the Interim Schema • Chapter 7 - Preparing the ETL Specifications • Chapter 8 - Designing the Physical ODS Database Model • Chapter 9 - Designing Our ETL processes with SSIS • Chapter 10 - Data Quality Profiling Build a custom BimlExpress framework that generates dozens of SQL Server Integration Services (SSIS) packages in minutes. Use this framework to execute related SSIS packages in a single command. You will learn to configure SSIS catalog projects, manage catalog deployments, and monitor SSIS catalog execution and history. Data Integration Life Cycle Management with SSIS shows you how to bring DevOps benefits to SSIS integration projects. Practices in this book enable faster time to market, higher quality of code, and repeatable automation. Code will be created that is easier to support and maintain. The book teaches you how to more effectively manage SSIS in the enterprise environment by drawing on the art and science of modern DevOps practices. What You'll Learn Generate dozens of SSIS packages in minutes to speed your integration projects Reduce the execution of related groups of SSIS packages to a single command Successfully handle SSIS catalog deployments and their projects Monitor the execution and history of SSIS catalog projects Manage your enterprise data integration life cycle through automated tools and utilities Who This Book Is For Database professionals working with SQL Server Integration Services in enterprise environments. The book is especially useful to those readers following, or wishing to follow, DevOps practices in their use of SSIS. Find the right people with the right skills. This book clarifies best practices for creating high-functioning data integration teams, enabling you to understand the skills and requirements, documents, and solutions for planning, designing, and monitoring both one-time migration and daily integration systems. The growth of data is exploding. With multiple sources of information constantly arriving across enterprise systems, combining these systems into a single, cohesive, and documentable unit has become more important than ever. But the approach toward integration is much different than in other software disciplines, requiring the ability to code, collaborate, and disentangle complex business rules into a scalable model. Data migrations and integrations can be complicated. In many cases, project teams save the actual migration for the last weekend of the project, and any issues can lead to missed deadlines or, at worst, corrupted data that needs to be reconciled post-deployment. This book details how to plan strategically to avoid these last-minute risks as well as how to build the right solutions for future integration projects. What You Will Learn Understand the "language" of integrations and how they relate in terms of priority and ownership Create valuable documents that lead your team from discovery to deployment Research the most important integration tools in the market today Monitor your error logs and see how the output increases the cycle of continuous improvement Market across the enterprise to provide valuable integration solutions Who This Book Is For The executive and integration team leaders who are building the corresponding practice. It is also for integration architects, developers, and business analysts who need additional familiarity with ETL tools, integration processes, and associated project deliverables. What other organizational variables, such as reward systems or communication systems, affect the performance of this Data Integration process? What are the top 3 things at the forefront of our Data Integration agendas for the next 3 years? Who will be responsible for deciding whether Data Integration goes ahead or not after the initial investigations? What about Data Integration Analysis of results? Will team members perform Data Integration work when assigned and in a timely fashion? This valuable Data Integration self-assessment will make you the entrusted Data Integration domain master by revealing just what you need to know to be fluent and ready for any Data Integration challenge. How do I reduce the effort in the Data Integration work to be done to get problems solved? How can I ensure that plans of action include every Data Integration task and that every Data Integration outcome is in place? How will I save time investigating strategic and tactical options and ensuring Data Integration opportunity costs are low? How can I deliver tailored Data Integration advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Data Integration essentials are covered, from every angle: the Data Integration self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that Data Integration outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Data Integration practitioners. Their

mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Data Integration are maximized with professional results. Your purchase includes access details to the Data Integration self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. This book constitutes the refereed proceedings of the 9th International Conference on Data Integration in the Life Sciences, DILS 2013, held in Montreal, QC, Canada, in July 2013. The 10 revised papers included in this volume were carefully reviewed and selected from 23 submissions. The papers cover a range of important topics such as algorithms for ontology matching, interoperable frameworks for text mining using semantic web services, pipelines for genome-wide functional annotation, automation of pipelines providing data discovery and access to distributed resources, knowledge-driven querying-answer systems, prisms, nanopublications, electronic health records and linked data. How do you use Data Integration Tools data and information to support organizational decision making and innovation? How do we ensure that implementations of Data Integration Tools products are done in a way that ensures safety? If substitutes have been appointed, have they been briefed on the Data Integration Tools goals and received regular communications as to the progress to date? How can you measure Data Integration Tools in a systematic way? Does Data Integration Tools analysis isolate the fundamental causes of problems? This amazing Data Integration Tools self-assessment will make you the assured Data Integration Tools domain master by revealing just what you need to know to be fluent and ready for any Data Integration Tools challenge. How do I reduce the effort in the Data Integration Tools work to be done to get problems solved? How can I ensure that plans of action include every Data Integration Tools task and that every Data Integration Tools outcome is in place? How will I save time investigating strategic and tactical options and ensuring Data Integration Tools costs are low? How can I deliver tailored Data Integration Tools advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Data Integration Tools essentials are covered, from every angle: the Data Integration Tools self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Data Integration Tools outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Data Integration Tools practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Data Integration Tools are maximized with professional results. Your purchase includes access details to the Data Integration Tools self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. Data Warehouse projects fail. As an industry we have been battling with this phenomenon for decades. Though we have been getting better over the years, as an industry we still have a long way to go. Fortunately some people have found ways to beat the odds. By thinking out of the box, formulating new ideas, and creating new innovative approaches these people have each somehow unlocked the secrets of successful DW programs. Within this group there are those who have fire tested their theories with real life deployments. They have proven the merits of their ideas with perhaps the only test that really matters - actually deploying successful DW programs. Now this is a small group, a special club, and of the few members in this club, an even smaller group is willing and able to communicate and share their ideas. In this book, Integrated Data Hub™, Dario Mangano shares with us his ideas including the solution he developed and the proven architecture that he has successfully deployed in several organizations. This book is a guide to a successful data warehousing business intelligence (DWBI) program. One of the success factors is recognizing that there is no success to be found in a data warehouse project. To leverage enterprise data we have to recognize two things; first that the data warehouse is not a project with a beginning and end but rather an ongoing program, and second that this program is not technically driven but actually business and information driven. The Integrated Data Hub™ is an organizational information framework that takes into account the dynamic characteristics of the data warehouse function. Business alignment, data integration and historization are ongoing dynamic functions that need to respond to changes in the business, changes in the sources, and changes in downstream requirements. The organizational need for enterprise-wide data is an increasingly important component of enterprise management. With this increasing importance comes also an increasing need for traceability and auditability. Dario explains how the role of the business intelligence department is to manage the transformation of integrated and trusted data into understandable information with real business meaning. Dario's IDH leverages the concepts and principles of both Bill Inmon's data warehouse and corporate information factory, and of Ralph Kimball's dimensional modeling and data marts. Insofar as the goals of the IDH require an optimized modeling paradigm, Dario has specified the use of the data vault modeling approach. Dario starts by sketching the historical background and then introduces the IDH concept. Keep reading as Dario weaves the IDH components together into an effective strategy and a cohesive blueprint for enterprise information management. From a modeling perspective this book takes us from 3NF and Star Schemas to Data Vault and Dario's own Leaf Schemas. From an architectural perspective this book describes the component layers and their specific characteristics. This book is a great addition to the IP for the new age of data warehousing and information management. Data Warehouse programs using the IDH™ succeed. And perhaps that is the most compelling reason to read this book. Hans Hultgren (Author of the book: Modeling the Agile Data Warehouse with Data Vault) Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled - projects flounder, are late and go over budget. Business Intelligence Guidebook: From Data Integration to Analytics shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget - turning the deluge of data into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises as well as at small to medium-sized businesses Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources. "Customers are the heart of any business. But we can't succeed if we develop only one talk addressed to the 'average customer.' Instead we must know each customer and build our individual engagements with that knowledge. If Customer Relationship Management (CRM) is going to work, it calls for skills in Customer Data Integration (CDI). This is the best book that I have seen on the subject. Jill Dyché is to be complimented for her thoroughness in interviewing executives and presenting CDI." -Philip Kotler, S. C. Johnson Distinguished Professor of International Marketing Kellogg School of Management, Northwestern University "In this world of killer competition, hanging on to existing customers is critical to survival. Jill Dyché's new book makes that job a lot easier than it has been." -Jack Trout, author, Differentiate or Die "Jill and Evan have not only written the definitive work on Customer Data Integration, they've made the business case for it. This book offers sound advice to business people in search of innovative ways to bring data together about customers-their most important asset-while at the same time giving IT some practical tips for implementing CDI and MDM the right way." -Wayne Eckerson, The Data Warehousing Institute author of Performance Dashboards: Measuring, Monitoring, and Managing Your Business Whatever business you're in, you're ultimately in the customer business. No matter what your product, customers pay the bills. But the strategic importance of customer relationships hasn't brought companies much closer to a single, authoritative view of their customers. Written from both business and technical perspectives, Customer Data Integration shows companies how to deliver an accurate, holistic, and long-term understanding of their customers through CDI. Managing Data in Motion describes techniques that have been developed for significantly reducing the complexity of managing system interfaces and enabling scalable architectures. Author April Reeve brings over two decades of experience to present a vendor-neutral approach to moving data between computing environments and systems. Readers will learn the techniques, technologies, and best practices for managing the passage of data between computer

systems and integrating disparate data together in an enterprise environment. The average enterprise's computing environment is comprised of hundreds to thousands computer systems that have been built, purchased, and acquired over time. The data from these various systems needs to be integrated for reporting and analysis, shared for business transaction processing, and converted from one format to another when old systems are replaced and new systems are acquired. The management of the "data in motion" in organizations is rapidly becoming one of the biggest concerns for business and IT management. Data warehousing and conversion, real-time data integration, and cloud and "big data" applications are just a few of the challenges facing organizations and businesses today. Managing Data in Motion tackles these and other topics in a style easily understood by business and IT managers as well as programmers and architects. Presents a vendor-neutral overview of the different technologies and techniques for moving data between computer systems including the emerging solutions for unstructured as well as structured data types Explains, in non-technical terms, the architecture and components required to perform data integration Describes how to reduce the complexity of managing system interfaces and enable a scalable data architecture that can handle the dimensions of "Big Data" SQL Server 2012 Data Integration Recipes provides focused and practical solutions to real world problems of data integration. Need to import data into SQL Server from an outside source? Need to export data and send it to another system? SQL Server 2012 Data Integration Recipes has your back. You'll find solutions for importing from Microsoft Office data stores such as Excel and Access, from text files such as CSV files, from XML, from other database brands such as Oracle and MySQL, and even from other SQL Server databases. You'll learn techniques for managing metadata, transforming data to meet the needs of the target system, handling exceptions and errors, and much more. What DBA or developer isn't faced with the need to move data back and forth? Author Adam Aspin brings 10 years of extensive ETL experience involving SQL Server, and especially satellite products such as Data Transformation Services and SQL Server Integration Services. Extensive coverage is given to Integration Services, Microsoft's flagship tool for data integration in SQL Server environments. Coverage is also given to the broader range of tools such as OPENDATASOURCE, linked servers, OPENROWSET, Migration Assistant for Access, BCP Import, and BULK INSERT just to name a few. If you're looking for a resource to cover data integration and ETL across the gamut of Microsoft's SQL Server toolset, SQL Server 2012 Data Integration Recipes is the one book that will meet your needs. Provides practical and proven solutions towards creating resilient ETL environments Clearly answers the tough questions which professionals ask Goes beyond the tools to a thorough discussion of the underlying techniques Covers the gamut of data integration, beyond just SSIS Includes example databases and files to allow readers to test the recipes The economic, social and demographic impacts of migration are large and increasing. Policymakers, researchers and other stakeholders need data on migrants and their integration into societies. These data need be comprehensive, accurate and frequently updated. There is no single source that can provide such data, but by combining several sources together it might be possible to produce the information that users need. Some countries have developed methods for combining administrative, statistical and other data sources for the production of migration statistics. This publication provides an overview of the ways that data integration is used to produce migration statistics, based on a survey of migration data providers in over 50 countries. The one-stop-source powering Data Integration Tools success, jam-packed with ready to use insights for results, loaded with all the data you need to decide how to gain and move ahead. Based on extensive research, this lays out the thinking of the most successful Data Integration Tools knowledge experts, those who are adept at continually innovating and seeing opportunities. This is the first place to go for Data Integration Tools innovation - INCLUDED are numerous real-world Data Integration Tools blueprints, presentations and templates ready for you to access and use. Also, if you are looking for answers to one or more of these questions then THIS is the title for you: How do I use Python as an ETL - data integration tool? What classic data integration tools would one use to deal with machine data or is this not feasible? What are some promising Big Data startups? What is the best data visualization tool for web portal integration with wide sets of APIs?...and much more... There has never been a Data Integration Guide like this. Data Integration 25 Success Secrets is not about the ins and outs of Data Integration. Instead, it answers the top 25 questions that we are asked and those we come across in our forums, consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. Get the information you need--fast! This comprehensive guide offers a thorough view of key knowledge and detailed insight. This Guide introduces everything you want to know to be successful with Data Integration. A quick look inside of the subjects covered: Global Business Intelligence Can Help Businesses and Companies, The New SQL Server 2005 DTS: Introducing the Server Integration Services as the New Transformation, What are some of the specific components of PaaS?, Integrating SOA Into The Mainframe, Uses of Business Intelligence Tools, The Advantages of Attending Enterprise Architecture Conferences, Data Modeling Techniques, What are Business Process Management Tools, Benefits of MDM, The MCITP Developer: Microsoft SQL Server 2005 Exam 70-441, Data Warehouse Metadata and Its Benefits, The MDM strategy comprises different elements., Jumper 2.0 i, Need a Tool? Try Business Intelligence Software, Updates on Data Virtualization, Terminology, Platform as a Service (PaaS), MDM Component Layer Model, Special Features, MDM Myths, IT Metadata Management Products: History and Uses, Leading to Business Intelligence Best Practices, Rights Metadata, The Importance of Creating Metadata Registries, There are six distinct levels of MDM maturity., and much more... 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 Integration 8 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 8 Community Edition Install and get started with PDI Learn the ins and outs of Spoon, the 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-Tranform-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 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 manipulation requirements. Besides, your 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. Large biological data, which are often noisy and high-dimensional, have become increasingly prevalent in biology and medicine. There is a real need for good training in statistics, from data exploration through to analysis and interpretation. This book provides an overview of statistical and dimension reduction methods for high-throughput biological data, with a specific focus on data integration. It starts with some biological background, key concepts underlying the multivariate methods, and then covers an array of methods implemented using the mixOmics package in R. Features: Provides a broad and accessible overview of methods for multi-omics data integration Covers a wide range of multivariate methods, each designed to answer specific biological questions Includes comprehensive visualisation techniques to aid in data interpretation Includes many worked examples and case studies using real data Includes reproducible R code for each multivariate method, using the mixOmics package The book is suitable for researchers from a wide range of scientific disciplines wishing to apply these methods to obtain new and deeper insights into biological mechanisms and biomedical problems. The suite of tools introduced in this book will enable students and scientists to work at the interface between, and provide critical collaborative expertise to, biologists, bioinformaticians, statisticians and clinicians. Data integration in the life sciences continues

to be important but challenging. The ongoing development of new experimental methods gives rise to an increasingly wide range of data sets, which in turn must be combined to allow more integrative views of biological systems. Indeed, the growing prominence of systems biology, where mathematical models characterize behaviors observed in experiments of different types, emphasizes the importance of data integration to the life sciences. In this context, the representation of models of biological behavior as data in turn gives rise to challenges relating to provenance, data quality, annotation, etc., all of which are associated with significant research activities within computer science. The Data Integration in the Life Sciences (DILS) Workshop Series brings together data and knowledge management researchers from the computer science research community with bioinformaticians and computational biologists, to improve the understanding of how emerging data integration techniques can address requirements identified in the life sciences.

Making Data Integration Work: How to Systematically Reduce Cost, Improve Quality, and Enhance Effectiveness Today's enterprises are investing massive resources in data integration. Many possess thousands of point-to-point data integration applications that are costly, undocumented, and difficult to maintain. Data integration now accounts for a major part of the expense and risk of typical data warehousing and business intelligence projects--and, as businesses increasingly rely on analytics, the need for a blueprint for data integration is increasing now more than ever. This book presents the solution: a clear, consistent approach to defining, designing, and building data integration components to reduce cost, simplify management, enhance quality, and improve effectiveness. Leading IBM data management expert Tony Giordano brings together best practices for architecture, design, and methodology, and shows how to do the disciplined work of getting data integration right. Mr. Giordano begins with an overview of the "patterns" of data integration, showing how to build blueprints that smoothly handle both operational and analytic data integration. Next, he walks through the entire project lifecycle, explaining each phase, activity, task, and deliverable through a complete case study. Finally, he shows how to integrate data integration with other information management disciplines, from data governance to metadata. The book's appendices bring together key principles, detailed models, and a complete data integration glossary. Coverage includes

- Implementing repeatable, efficient, and well-documented processes for integrating data
- Lowering costs and improving quality by eliminating unnecessary or duplicative data integrations
- Managing the high levels of complexity associated with integrating business and technical data
- Using intuitive graphical design techniques for more effective process and data integration modeling
- Building end-to-end data integration applications that bring together many complex data sources
- Risk factors: what are the characteristics of Data Integration Initiatives that make it risky? Why is it important to have senior management support for a Data Integration Initiatives project? What is the scope of the Data Integration Initiatives effort? Are you dealing with any of the same issues today as yesterday? What can you do about this? How do you quantify and qualify impacts? This powerful Data Integration Initiatives self-assessment will make you the credible Data Integration Initiatives domain assessor by revealing just what you need to know to be fluent and ready for any Data Integration Initiatives challenge. How do I reduce the effort in the Data Integration Initiatives work to be done to get problems solved? How can I ensure that plans of action include every Data Integration Initiatives task and that every Data Integration Initiatives outcome is in place? How will I save time investigating strategic and tactical options and ensuring Data Integration Initiatives costs are low? How can I deliver tailored Data Integration Initiatives advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Data Integration Initiatives essentials are covered, from every angle: the Data Integration Initiatives self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Data Integration Initiatives outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Data Integration Initiatives practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Data Integration Initiatives are maximized with professional results. Your purchase includes access details to the Data Integration Initiatives self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria:

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- The Self-Assessment Excel Dashboard
- Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation
- In-depth and specific Data Integration Initiatives Checklists
- Project management checklists and templates to assist with implementation

INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Data integration is the process of facilitating the access to data residing at multiple heterogeneous data sources, and providing users and applications with a unified view of these data. Data integration is crucial in enterprises that store and exchange data in disparate and incompatible formats, and is one of the big challenges of the World Wide Web, where millions of heterogeneous data sources are available. This book contributes to different aspects of the design of modern data integration systems in the context of the Web. On one hand, the work contributes to the Semantic Integration research trend, which refers to the problem of reconciling data from autonomous sources using ontologies and other semantic-based tools. The work suggests a novel solution to XML-RDF semantic integration and also contributes to the problem of Ontology Alignment, defining a rigorous and scalable semantic similarity measure for RDF labelled directed graphs. On the other hand, the book suggests a novel solution to the problem of translating a user query (targeting a logical mediated schema), into queries over a set of autonomous data sources provided with restricted web interfaces. Useful attributes capture and quantify key components of the seismic amplitude and texture for subsequent integration with well log, microseismic, and production data through either interactive visualization or machine learning. Although both approaches can accelerate and facilitate the interpretation process, they can by no means replace the interpreter. Interpreter "grayware" includes the incorporation and validation of depositional, diagenetic, and tectonic deformation models, the integration of rock physics systematics, and the recognition of unanticipated opportunities and hazards. This book is written to accompany and complement the 2018 SEG Distinguished Instructor Short Course that provides a rapid overview of how 3D seismic attributes provide a framework for data integration over the life of the oil and gas field. Key concepts are illustrated by example, showing modern workflows based on interactive interpretation and display as well as those aided by machine learning. Why a book about logs? That's easy: the humble log is an abstraction that lies at the heart of many systems, from NoSQL databases to cryptocurrencies. Even though most engineers don't think much about them, this short book shows you why logs are worthy of your attention. Based on his popular blog posts, LinkedIn principal engineer Jay Kreps shows you how logs work in distributed systems, and then delivers practical applications of these concepts in a variety of common uses—data integration, enterprise architecture, real-time stream processing, data system design, and abstract computing models. Go ahead and take the plunge with logs; you're going to love them. Learn how logs are used for programmatic access in databases and distributed systems

Discover solutions to the huge data integration problem when more data of more varieties meet more systems

Understand why logs are at the heart of real-time stream processing

Learn the role of a log in the internals of online data systems

Explore how Jay Kreps applies these ideas to his own work on data infrastructure systems at LinkedIn

Since 2000, the Colorado Department of Transportation (CDOT) has undertaken several important initiatives designed to improve transportation planning, decisionmaking, and resource allocation. Today, CDOT recognizes that data integration plays a critical role in improving business processes and managing assets. Thanks to institutional policy changes and forward-thinking information technology planning, the department is successfully integrating data to support Asset Management. Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled – projects flounder, are late and go over budget. **Business Intelligence Guidebook: From Data Integration to Analytics** shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget – turning the deluge of data

into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises as well as at small to medium-sized businesses Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources. 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 Integration 8 CE* Connect to any database engine, explore the databases, and perform all kind of operations on relational databases

Who This Book Is ForThis 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 8 Community Edition* Install and get started with PDI* Learn the ins and outs of Spoon, the 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 DetailPentaho Data Integration(PDI) is an intuitive and graphical environment packed with drag-and-drop design and powerful Extract-Tranform-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 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 manipulation requirements. Besides, your will be given best practices and advises for designing and deploying your projects.

Style and approachStep by step guide filled with practical, real world scenarios and examples. A practical cookbook on building portals with GateIn including user security, gadgets, and every type of portlet possible. 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 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, 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 warehousing with this detailed guide—from simple single table data migration to complex multisystem clustered data integration tasks.

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