

Principles Of Data Integration

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Customer Data Integration
Big Data Integration
Connecting the Data
Managing Data in Motion
Data Integration Blueprint and Modeling
Pentaho Data Integration Beginner's Guide
Data Integration
Pentaho Data Integration Cookbook
Learning Pentaho Data Integration 8 CE
Data Integration
Steps Toward Large-Scale Data Integration in the Sciences
Database Design, Query Formulation, and Administration
Database Design, Application Development, and Administration
StreamSets Data Integration Architecture and Design
Enabling Manufacturing Competitiveness and Economic Sustainability
Advanced Hybrid Information Processing
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Pierre-Yves BONNEFOY
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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 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

learn the essentials of data integration with this comprehensive guide covering everything from sources to solutions and discover the key to making the most of your data stack key features learn how to leverage modern data stack tools and technologies for effective data integration design and implement data integration solutions with practical advice and best practices focus on modern technologies such as cloud based architectures real time data processing and open source tools and technologies purchase of the print or kindle book includes a free pdf ebook book descriptionthe definitive guide to data integration is an indispensable resource for navigating the complexities of modern data integration focusing on the latest tools techniques and best practices this guide helps you master data integration and unleash the full potential of your data this comprehensive guide begins by examining the challenges and key concepts of data integration such as managing huge volumes of data and dealing with the different data types you ll gain a deep understanding of the modern data stack and its architecture as well as the pivotal role of open source technologies in shaping the data landscape delving into the layers of the modern data stack you ll cover data sources types storage integration techniques transformation and processing the book also offers insights into data exposition and apis ingestion and storage strategies data preparation and analysis workflow management monitoring data quality and governance packed with practical use cases real world examples and a glimpse into the future of data integration the definitive guide to data integration is an essential resource for data eclectics by the end of this book you ll have the gained the knowledge and skills needed to optimize your data usage and excel in the ever evolving world of data what you will learn discover the evolving architecture and technologies shaping data integration process large data volumes efficiently with data warehousing tackle the complexities of integrating large datasets from diverse sources harness the power of data warehousing for efficient data storage and processing design and optimize effective data integration solutions explore data governance principles and compliance requirements who this book is for this book is perfect for data engineers data architects data analysts and it professionals looking to gain a comprehensive understanding of data integration in the modern era whether you re a beginner or an experienced professional enhancing your knowledge of the modern data stack this definitive guide will help you navigate the data integration landscape

are you struggling to manage and make sense of the vast streams of data flowing into your organization in today s data driven world the ability to effectively unify and organize disparate data sources is not just an advantage it s a necessity the challenge lies in navigating the complexities of data diversity volume and regulatory demands which can overwhelm even the most seasoned data professionals in this essential book jay borthen offers a comprehensive guide to understanding the art of data integration this book dives deep into the processes and strategies necessary for creating effective data pipelines that ensure

consistency accuracy and accessibility of your data whether you re a novice looking to understand the basics or an experienced professional aiming to refine your skills borthen s insights and practical advice grounded in real world case studies will empower you to transform your organization s data handling capabilities you will understand various data integration solutions and how different technologies can be employed gain insights into the relationship between data integration and the overall data lifecycle learn to effectively design set up and manage data integration components within pipelines acquire the knowledge to configure pipelines perform data migrations transformations and more

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

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

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

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

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 its 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

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

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

data integration is a critical problem in our increasingly interconnected but inevitably heterogeneous world there are numerous data sources available in organizational databases and on public information systems like the world wide not surprisingly the sources often use different vocabularies and different data structures being created as they are by different people at different times for different purposes the goal of data integration is to provide programmatic and human users with integrated access to multiple heterogeneous data sources giving each user the illusion of a single homogeneous database designed for his or her specific need the good news is that in many cases the data integration process can be automated this book is an introduction to the problem of data integration and a rigorous account of one of the leading approaches to solving this problem viz the relational logic approach relational logic provides a theoretical framework for discussing data integration moreover in many important cases it provides algorithms for solving the problem in a computationally practical way in many respects relational logic does for data integration what relational algebra did for database theory several decades ago a companion web site provides interactive demonstrations of the algorithms table of contents preface interactive edition introduction basic concepts query folding query planning master schema management appendix references index author biography don't have access recommend our synthesis digital library to your library or purchase a personal subscription email info@morganclaypool.com for details

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 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

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b2b business to business data integration refers to the process of integrating data between two or more businesses or organizations this involves the exchange of data between different systems applications and databases to ensure that the data is consistent accurate and up to date b2b data integration is critical for organizations that rely on timely and accurate data to make informed business decisions it allows organizations to share data with their partners suppliers and customers enabling them to collaborate more effectively and streamline their operations some common b2b data integration scenarios include integrating data from multiple suppliers into a central system sharing sales and inventory data with retail partners exchanging data with logistics and transportation providers integrating financial data with accounting systems sharing customer data between different marketing platforms b2b data integration can be achieved through a variety of methods including point to point integration direct integration between two systems middleware an intermediary layer that sits between systems and facilitates data exchange apis application programming interfaces standardized interfaces that allow systems to communicate with each other etl extract transform load tools software that extracts data from different sources transforms it into a common format and loads it into a target system successful b2b data integration requires careful planning clear communication between stakeholders and a thorough understanding of the data involved it also requires robust security measures to protect sensitive data and ensure compliance with data privacy regulations

steps toward large scale data integration in the sciences summarizes a national research council nrc workshop to identify some of the major challenges that hinder large scale data integration in the sciences and some of the technologies that could lead to solutions the workshop was held august 19 20 2009 in washington d c the workshop examined a collection of scientific research domains with application experts explaining the issues in their disciplines and current best practices this approach allowed the participants to gain insights about both commonalities and differences in the data integration challenges facing the

various communities in addition to hearing from research domain experts the workshop also featured experts working on the cutting edge of techniques for handling data integration problems this provided participants with insights on the current state of the art the goals were to identify areas in which the emerging needs of research communities are not being addressed and to point to opportunities for addressing these needs through closer engagement between the affected communities and cutting edge computer science

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streamsets data integration architecture and design streamsets data integration architecture and design is an authoritative resource designed for data engineers architects and it leaders seeking to master robust agile and scalable data integration solutions with streamsets the book provides a comprehensive view of the modern data integration landscape covering foundational paradigms such as etl elt and streaming alongside the operational challenges of hybrid architectures big data and dataops special emphasis is given to the critical role of metadata management data lineage and governance framing streamsets as a pivotal player within the contemporary ecosystem diving deep into the architecture and capabilities of the streamsets platform the book explores architectural fundamentals from control and execution planes to deployment models security and observability before moving into practical design patterns and technical strategies for building high performing data pipelines detailed sections guide readers through pipeline modeling schema evolution error handling and modular design principles as well as connectivity to a vast array of data sources integration layers and streaming protocols coverage extends to advanced processing techniques including real time transformation enrichment and scalable orchestration with enterprise scheduling devops integration and self healing automation recognizing the importance of security and compliance the book provides actionable guidance on data governance privacy preservation regulatory frameworks and policy driven management ensuring end to end enterprise readiness readers will also benefit from architectural

reference solutions and real world blueprints for data lakes cloud migration iot and multi cloud strategies positioning streamsets as an extensible and future proof integration platform through in depth technical insights and actionable best practices streamsets data integration architecture and design is an essential guide for unlocking the full potential of scalable secure and resilient data integration in the modern enterprise

the changing manufacturing environment requires more responsive and adaptable manufacturing systems the theme of the 4th international conference on changeable agile reconfigurable and virtual production carv2011 is enabling manufacturing competitiveness and economic sustainability leading edge research and best implementation practices and experiences which address these important issues and challenges are presented the proceedings include advances in manufacturing systems design planning evaluation control and evolving paradigms such as mass customization personalization changeability re configurability and flexibility new and important concepts such as the dynamic product families and platforms co evolution of products and systems and methods for enhancing manufacturing systems economic sustainability and prolonging their life to produce more than one product generation are treated enablers of change in manufacturing systems production volume and capability scalability and managing the volatility of markets competition among global enterprises and the increasing complexity of products manufacturing systems and management strategies are discussed industry challenges and future directions for research and development needed to help both practitioners and academicians are presented

this four volume set constitutes the post conference proceedings of the 7th eai international conference on advanced hybrid information processing adhip 2023 held in harbin china during september 22 24 2023 the 108 full papers presented were selected from 270 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application the theme of adhip 2022 was hybrid information processing in meta world the papers are named in topical sections as follows wireless communication for social information processing artificial intelligence technology mobile education mobile monitoring behavior understanding and object tracking wireless networks for social information processing image information processing mobile monitoring civilian audio and acoustic signal processing

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