

Read PDF Talend For Data  
Integration Guide Roberto  
Marchetto

# **Talend For Data Integration Guide Roberto Marchetto**

Primarily designed as a reference book, simple and effective exercises based upon genuine real-world tasks enable the developer to reduce the time to deliver the results. Presentation of the activities in a recipe format will enable the readers to grasp even the complex concepts with consummate ease. Talend Open Studio Cookbook is principally aimed at relative beginners and

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intermediate Talend

Developers who have used the product to perform some simple integration tasks, possibly via a training course or beginner's tutorials.

Find the right big data solution for your 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

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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 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

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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 Data For Dummies cuts through the confusion and helps you take charge of big data solutions for your organization.

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

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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

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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

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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. Learn how to take full advantage of Apache Kafka, the distributed, publish-

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subscribe queue for handling real-time data feeds. With this comprehensive book, you will understand how Kafka works and how it is designed. Authors Neha Narkhede, Gwen Shapira, and Todd Palino show you how to deploy production Kafka clusters; secure, tune, and monitor them; write rock-solid applications that use Kafka; and build scalable stream-processing applications. Learn how Kafka compares to other queues, and where it fits in the big data ecosystem. Dive into Kafka's internal design. Pick up best practices for developing applications that use Kafka. Understand



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the best way to deploy Kafka in production monitoring, tuning, and maintenance tasks. Learn how to secure a Kafka cluster.

Encyclopedia of Big Data

The Enterprise Big Data Lake

Intelligent Systems Design

and Applications

Cassandra: The Definitive

Guide

Business Intelligence Tools

for Small Companies

Snowflake: The Definitive

Guide

A complete guide to

Pentaho Kettle, the

Pentaho Data Integration

toolset for ETL This

practical book is a

complete guide to

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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

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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

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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.  
This book comprises  
selected papers from the  
16th International  
Conference on

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Intelligent Systems  
Design and Applications  
(ISDA'16), which was  
held in Porto, Portugal  
from December 1 to 16,  
2016. ISDA 2016 was  
jointly organized by the  
Portugal-based  
Instituto Superior de  
Engenharia do Porto and  
the US-based Machine  
Intelligence Research  
Labs (MIR Labs) to serve  
as a forum for the  
dissemination of state-  
of-the-art research and  
development of  
intelligent systems,  
intelligent

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technologies, and applications. The papers included address a wide variety of themes ranging from theories to applications of intelligent systems and computational intelligence area and provide a valuable resource for students and researchers in academia and industry alike.

This encyclopedia will be an essential resource for our times, reflecting the fact that we currently are living

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in an expanding data-driven world.

Technological advancements and other related trends are contributing to the production of an astoundingly large and exponentially increasing collection of data and information, referred to in popular vernacular as “Big Data.” Social media and crowdsourcing platforms and various applications ? “apps” ? are producing reams of information from the instantaneous

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transactions and input of millions and millions of people around the globe. The Internet-of-Things (IoT), which is expected to comprise tens of billions of objects by the end of this decade, is actively sensing real-time intelligence on nearly every aspect of our lives and environment. The Global Positioning System (GPS) and other location-aware technologies are producing data that is specific down to



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particular latitude and longitude coordinates and seconds of the day. Large-scale instruments, such as the Large Hadron Collider (LHC), are collecting massive amounts of data on our planet and even distant corners of the visible universe. Digitization is being used to convert large collections of documents from print to digital format, giving rise to large archives of unstructured data. Innovations in technology, in the areas

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of Cloud and molecular computing, Artificial Intelligence/Machine Learning, and Natural Language Processing (NLP), to name only a few, also are greatly expanding our capacity to store, manage, and process Big Data. In this context, the Encyclopedia of Big Data is being offered in recognition of a world that is rapidly moving from gigabytes to terabytes to petabytes and beyond. While indeed large data sets have

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long been around and in use in a variety of fields, the era of Big Data in which we now live departs from the past in a number of key respects and with this departure comes a fresh set of challenges and opportunities that cut across and affect multiple sectors and disciplines, and the public at large. With expanded analytical capacities at hand, Big Data is now being used for scientific inquiry and experimentation in

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nearly every (if not all) disciplines, from the social sciences to the humanities to the natural sciences, and more. Moreover, the use of Big Data has been well established beyond the Ivory Tower. In today's economy, businesses simply cannot be competitive without engaging Big Data in one way or another in support of operations, management, planning, or simply basic hiring decisions. In all levels of government, Big Data

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is being used to engage citizens and to guide policy making in pursuit of the interests of the public and society in general. Moreover, the changing nature of Big Data also raises new issues and concerns related to, for example, privacy, liability, security, access, and even the veracity of the data itself. Given the complex issues attending Big Data, there is a real need for a reference book that covers the subject from

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a multi-disciplinary, cross-sectoral, comprehensive, and international perspective. The Encyclopedia of Big Data will address this need and will be the first of such reference books to do so. Featuring some 500 entries, from "Access" to "Zillow," the Encyclopedia will serve as a fundamental resource for researchers and students, for decision makers and leaders, and for business analysts and

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purveyors. Developed for those in academia, industry, and government, and others with a general interest in Big Data, the encyclopedia will be aimed especially at those involved in its collection, analysis, and use. Ultimately, the Encyclopedia of Big Data will provide a common platform and language covering the breadth and depth of the topic for different segments, sectors, and disciplines.

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This book is written in a concise and easy to understand manner, and acts as a comprehensive guide on data analytics and integration with Talend big data processing jobs. If you are a chief information officer, enterprise architect, data architect, data scientist, software developer, software engineer, or a data analyst who is familiar with data processing projects and who wants to use Talend to get



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your first big data job  
executed in a reliable,  
quick, and graphical  
way, then Talend for Big  
Data is perfect for you.  
Google BigQuery: The  
Definitive Guide  
Tools and Technology for  
Effective Planning  
Practical Techniques for  
Extracting, Cleaning,  
Conforming, and  
Delivering Data  
Building Open Source ETL  
Solutions with Pentaho  
Data Integration  
Open Source Data  
Warehousing and Business  
Intelligence

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16th International Conference on Intelligent Systems Design and Applications (ISDA 2016) held in Porto, Portugal, December 16-18, 2016

Utilize this practical and easy-to-follow guide to modernize traditional enterprise data warehouse and business intelligence environments with next-generation big data technologies. Next-Generation Big Data takes a holistic approach, covering the

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most important aspects of modern enterprise big data. The book covers not only the main technology stack but also the next-generation tools and applications used for big data warehousing, data warehouse optimization, real-time and batch data ingestion and processing, real-time data visualization, big data governance, data wrangling, big data cloud deployments, and distributed in-memory big data computing.

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Finally, the book has an extensive and detailed coverage of big data case studies from Navistar, Cerner, British Telecom, Shopzilla, Thomson Reuters, and Mastercard.

What You'll Learn

Install Apache Kudu, Impala, and Spark to modernize enterprise data warehouse and business intelligence environments, complete with real-world, easy-to-follow examples, and practical advice

Integrate HBase, Solr,

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Oracle, SQL Server, MySQL, Flume, Kafka, HDFS, and Amazon S3 with Apache Kudu, Impala, and Spark Use StreamSets, Talend, Pentaho, and CDAP for real-time and batch data ingestion and processing Utilize Trifacta, Alteryx, and Datameer for data wrangling and interactive data processing Turbocharge Spark with Alluxio, a distributed in-memory storage platform Deploy big data in the cloud using Cloudera Director

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Perform real-time data visualization and time series analysis using Zoomdata, Apache Kudu, Impala, and Spark

Understand enterprise big data topics such as big data governance, metadata management, data lineage, impact analysis, and policy enforcement, and how to use Cloudera Navigator to perform common data governance tasks

Implement big data use cases such as big data warehousing, data warehouse optimization,

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Internet of Things, real-time data ingestion and analytics, complex event processing, and scalable predictive modeling  
Study real-world big data case studies from innovative companies, including Navistar, Cerner, British Telecom, Shopzilla, Thomson Reuters, and Mastercard  
Who This Book Is For BI and big data warehouse professionals interested in gaining practical and real-world insight into next-generation big data processing and analytics

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using Apache Kudu, Impala, and Spark; and those who want to learn more about other advanced enterprise topics

As you move data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure your organization meets compliance requirements. Data governance incorporates the ways people, processes, and technology work together



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to ensure data is trustworthy and can be used effectively. This practical guide shows you how to effectively implement and scale data governance throughout your organization. Chief information, data, and security officers and their teams will learn strategy and tooling to support democratizing data and unlocking its value while enforcing security, privacy, and other governance standards. Through good data governance, you can

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inspire customer trust, enable your organization to identify business efficiencies, generate more competitive offerings, and improve customer experience. This book shows you how. You'll learn: Data governance strategies addressing people, processes, and tools Benefits and challenges of a cloud-based data governance approach How data governance is conducted from ingest to preparation and use How to handle the ongoing

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improvement of data quality Challenges and techniques in governing streaming data Data protection for authentication, security, backup, and monitoring How to build a data culture in your organization

The key to a successful MDM initiative isn't technology or methods, it's people: the stakeholders in the organization and their complex ownership of the data that the initiative will affect. Master Data

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Management equips you with a deeply practical, business-focused way of thinking about MDM—an understanding that will greatly enhance your ability to communicate with stakeholders and win their support. Moreover, it will help you deserve their support: you'll master all the details involved in planning and executing an MDM project that leads to measurable improvements in business productivity and effectiveness. \*

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Presents a comprehensive roadmap that you can adapt to any MDM project. \*

- \* Emphasizes the critical goal of maintaining and improving data quality.
- \* Provides guidelines for determining which data to “master.” \*
- \* Examines special issues relating to master data metadata. \*
- \* Considers a range of MDM architectural styles. \*
- \* Covers the synchronization of master data across the application

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infrastructure.

Integrating Hadoop leverages the discipline of data integration and applies it to the Hadoop open-source software framework for storing data on clusters of commodity hardware. It is packed with the need-to-know for managers, architects, designers, and developers responsible for populating Hadoop in the enterprise, allowing you to harness big data and do it in such a way that the solution:

- Complies

with (and even extends)  
enterprise standards ·  
Integrates seamlessly  
with the existing  
information  
infrastructure · Fills a  
critical role within  
enterprise architecture.  
Integrating Hadoop  
covers the gamut of the  
setup, architecture and  
possibilities for Hadoop  
in the organization,  
including: · Supporting  
an enterprise  
information strategy ·  
Organizing for a  
successful Hadoop  
rollout · Loading and

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extracting of data in Hadoop · Managing Hadoop data once it's in the cluster · Utilizing Spark, streaming data, and master data in Hadoop processes - examples are provided to reinforce concepts.

SAP HANA 2.0

Learn Power BI

Designing, Building, and Deploying Messaging Solutions

Big Data Made Easy

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



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Microsoft Power BI  
Kafka: The Definitive  
Guide

A practical guide to implementing  
your enterprise data lake using  
Lambda Architecture as the base

About This Book Build a full-  
fledged data lake for your

organization with popular big

data technologies using the

Lambda architecture as the base

Delve into the big data

technologies required to meet

modern day business strategies

A highly practical guide to

implementing enterprise data

lakes with lots of examples and

real-world use-cases Who This

Book Is For Java developers and

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architects who would like to implement a data lake for their enterprise will find this book useful. If you want to get hands-on experience with the Lambda Architecture and big data technologies by implementing a practical solution using these technologies, this book will also help you. What You Will Learn

- Build an enterprise-level data lake using the relevant big data technologies
- Understand the core of the Lambda architecture and how to apply it in an enterprise
- Learn the technical details around Sqoop and its functionalities
- Integrate Kafka with Hadoop components to

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acquire enterprise data Use flume with streaming technologies for stream-based processing Understand stream-based processing with reference to Apache Spark Streaming Incorporate Hadoop components and know the advantages they provide for enterprise data lakes Build fast, streaming, and high-performance applications using ElasticSearch Make your data ingestion process consistent across various data formats with configurability Process your data to derive intelligence using machine learning algorithms In Detail The term "Data Lake" has recently emerged as a prominent

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term in the big data industry.

Data scientists can make use of it in deriving meaningful insights that can be used by businesses to redefine or transform the way they operate. Lambda architecture is also emerging as one of the very eminent patterns in the big data landscape, as it not only helps to derive useful information from historical data but also correlates real-time data to enable business to take critical decisions. This book tries to bring these two important aspects — data lake and lambda architecture—together. This book is divided into three main sections. The first introduces you

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to the concept of data lakes, the importance of data lakes in enterprises, and getting you up-to-speed with the Lambda architecture. The second section delves into the principal components of building a data lake using the Lambda architecture. It introduces you to popular big data technologies such as Apache Hadoop, Spark, Sqoop, Flume, and ElasticSearch. The third section is a highly practical demonstration of putting it all together, and shows you how an enterprise data lake can be implemented, along with several real-world use-cases. It also

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shows you how other peripheral components can be added to the lake to make it more efficient. By the end of this book, you will be able to choose the right big data technologies using the lambda architectural patterns to build your enterprise data lake. Style and approach The book takes a pragmatic approach, showing ways to leverage big data technologies and lambda architecture to build an enterprise-level data lake.

A practical cookbook on building portals with GateIn including user security, gadgets, and every type of portlet possible.

Big data is currently one of the

most critical emerging technologies. Organizations around the world are looking to exploit the explosive growth of data to unlock previously hidden insights in the hope of creating new revenue streams, gaining operational efficiencies, and obtaining greater understanding of customer needs. It is important to think of big data and analytics together. Big data is the term used to describe the recent explosion of different types of data from disparate sources. Analytics is about examining data to derive interesting and relevant trends and patterns, which can be used to inform

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decisions, optimize processes, and even drive new business models. With today's deluge of data comes the problems of processing that data, obtaining the correct skills to manage and analyze that data, and establishing rules to govern the data's use and distribution. The big data technology stack is ever growing and sometimes confusing, even more so when we add the complexities of setting up big data environments with large up-front investments. Cloud computing seems to be a perfect vehicle for hosting big data workloads. However, working on big data in the cloud



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brings its own challenge of reconciling two contradictory design principles. Cloud computing is based on the concepts of consolidation and resource pooling, but big data systems (such as Hadoop) are built on the shared nothing principle, where each node is independent and self-sufficient. A solution architecture that can allow these mutually exclusive principles to coexist is required to truly exploit the elasticity and ease-of-use of cloud computing for big data environments. This IBM® Redpaper™ publication is aimed at chief architects, line-of-business executives, and CIOs

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to provide an understanding of the cloud-related challenges they face and give prescriptive guidance for how to realize the benefits of big data solutions quickly and cost-effectively. Snowflake's ability to eliminate data silos and run workloads from a single platform creates opportunities to democratize data analytics, allowing users at all levels within an organization to make data-driven decisions. Whether you're an IT professional working in data warehousing or data science, a business analyst or technical manager, or an aspiring data professional wanting to get more

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hands-on experience with the Snowflake platform, this book is for you. You'll learn how Snowflake users can build modern integrated data applications and develop new revenue streams based on data. Using hands-on SQL examples, you'll also discover how the Snowflake Data Cloud helps you accelerate data science by avoiding replatforming or migrating data unnecessarily. You'll be able to: Efficiently capture, store, and process large amounts of data at an amazing speed Ingest and transform real-time data feeds in both structured and semistructured

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formats and deliver meaningful data insights within minutes Use Snowflake Time Travel and zero-copy cloning to produce a sensible data recovery strategy that balances system resilience with ongoing storage costs Securely share data and reduce or eliminate data integration costs by accessing ready-to-query datasets available in the Snowflake Marketplace Delivering the Promise of Big Data and Data Science A Working Guide to the Complete Hadoop Toolset Skills, Requirements, and Solutions for Designing Integrations

An Introduction

Cassandra: The Definitive Guide,  
(Revised) Third Edition

Next-Generation Big Data

*Enterprise Integration*

*Patterns provides an*

*invaluable catalog of*

*sixty-five patterns,*

*with real-world*

*solutions that*

*demonstrate the*

*formidable of messaging*

*and help you to design*

*effective messaging*

*solutions for your*

*enterprise. The authors*

*also include examples*

*covering a variety of*

*different integration*

*technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale*

*integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to*

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*monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.*

*Modern businesses depend on data for their very survival, creating a need for sophisticated databases and database technologies to help store, organise and transport their valuable data. This updated and expanded, easy-to-read textbook/reference presents a comprehensive*



*introduction to  
databases, opening with  
a concise history of  
databases and of data as  
an organisational asset.  
As relational database  
management systems are  
no longer the only  
database solution, the  
book takes a wider view  
of database technology,  
encompassing big data,  
NoSQL, object and object-  
relational, and in-  
memory databases.  
Presenting both  
theoretical and  
practical elements, the  
new edition also*

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*examines the issues of scalability, availability, performance and security encountered when building and running a database in the real world. Topics and features: Presents review and discussion questions at the end of each chapter, in addition to skill-building, hands-on exercises Provides new material on database adaptiveness, integration, and efficiency in relation*

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*to data growth*

*Introduces a range of  
commercial databases and  
encourages the reader to  
experiment with these in  
an associated learning  
environment Reviews use  
of a variety of  
databases in business  
environments, including  
numerous examples*

*Discusses areas for  
further research within  
this fast-moving domain  
With its learning-by-  
doing approach,  
supported by both  
theoretical and  
practical examples, this*

*clearly-structured  
textbook will be of  
great value to advanced  
undergraduate and  
postgraduate students of  
computer science,  
software engineering,  
and information  
technology. Practising  
database professionals  
and application  
developers will also  
find the book an ideal  
reference that addresses  
today's business needs.  
Open Source Data  
Warehousing and Business  
Intelligence is an all-  
in-one reference for*

*developing open source  
based data warehousing  
(DW) and business  
intelligence (BI)  
solutions that are  
business-centric, cross-  
customer viable, cross-  
functional, cross-  
technology based, and  
enterprise-wide.*

*Considering the entire  
lifecycle of an open  
source DW &*

*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 (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-*

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*saving ETL techniques,  
comprehensive guidance  
on building dimensional  
structures, and crucial  
advice on ensuring data  
quality*

*Real-Time Data and  
Stream Processing at  
Scale*

*The Data Warehouse ETL  
Toolkit*

*Building Big Data and  
Analytics Solutions in  
the Cloud*

*Data Quality Management  
with Semantic  
Technologies*

*The A.I. Marketer  
Principles of Data*

## *Wrangling*

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers.

This revised third edition--updated for Cassandra 4.0 and new developments in the Cassandra ecosystem, including deployments in Kubernetes with K8ssandra--provides technical details and practical examples to help you put this database to work in a production environment. Authors Jeff



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Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's nonrelational design, with special attention to data modeling. Developers, DBAs, and application architects looking to solve a database scaling issue or future-proof an application will learn how to harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh (the CQL shell) Create a working data model and compare it with an equivalent relational model Design and develop applications using client

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drivers Explore cluster topology and learn how nodes exchange data Maintain a high level of performance in your cluster Deploy Cassandra onsite, in the cloud, or with Docker and Kubernetes Integrate Cassandra with Spark, Kafka, Elasticsearch, Solr, and Lucene

Enter the fast-paced world of SAP HANA 2.0 with this introductory guide. Begin with an exploration of the technological backbone of SAP HANA as a database and platform. Then, step into key SAP HANA user roles and discover core capabilities for administration, application development,

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advanced analytics, security, data integration, and more. No matter how SAP HANA 2.0 fits into your business, this book is your starting point. In this book, you'll learn about:

- Technology** Discover what makes an in-memory database platform. Learn about SAP HANA's journey from version 1.0 to 2.0, take a tour of your technology options, and walk through deployment scenarios and implementation requirements.
- Tools** Unpack your SAP HANA toolkit. See essential tools in action, from SAP HANA cockpit and SAP HANA studio, to the SAP HANA Predictive Analytics

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Library and SAP HANA smart data integration. c. Key Roles Understand how to use SAP HANA as a developer, administrator, data scientist, data center architect, and more.

Explore key tasks like backend programming with SQLScript, security setup with roles and authorizations, data integration with the SAP HANA Data Management Suite, and more.

Highlights include: 1) Architecture 2) Administration 3) Application development 4) Analytics 5) Security 6) Data integration 7) Data architecture 8) Data center

Find the right people with the

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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

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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

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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. Many corporations are finding that the size of their data sets are outgrowing the capability of their systems to store and process them. The data is becoming too big to manage and use with traditional tools. The solution: implementing a big data system. As *Big Data Made Easy: A Working Guide to the Complete Hadoop Toolset* shows, Apache Hadoop offers a scalable, fault-tolerant system for storing and processing data in parallel. It has a very rich toolset that allows for storage (Hadoop),



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configuration (YARN and ZooKeeper), collection (Nutch and Solr), processing (Storm, Pig, and Map Reduce), scheduling (Oozie), moving (Sqoop and Avro), monitoring (Chukwa, Ambari, and Hue), testing (Big Top), and analysis (Hive). The problem is that the Internet offers IT pros wading into big data many versions of the truth and some outright falsehoods born of ignorance. What is needed is a book just like this one: a wide-ranging but easily understood set of instructions to explain where to get Hadoop tools, what they can do, how to install them, how to

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configure them, how to integrate them, and how to use them successfully. And you need an expert who has worked in this area for a decade—someone just like author and big data expert Mike Frampton. *Big Data Made Easy* approaches the problem of managing massive data sets from a systems perspective, and it explains the roles for each project (like architect and tester, for example) and shows how the Hadoop toolset can be used at each system stage. It explains, in an easily understood manner and through numerous examples, how to use each tool. The book

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also explains the sliding scale of tools available depending upon data size and when and how to use them. Big Data Made Easy shows developers and architects, as well as testers and project managers, how to:

- Store big data
- Configure big data
- Process big data
- Schedule processes
- Move data among SQL and NoSQL systems
- Monitor data
- Perform big data analytics
- Report on big data processes and projects
- Test big data systems

Big Data Made Easy also explains the best part, which is that this toolset is free. Anyone can download it and—with the help of this

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book—start to use it within a day.

With the skills this book will teach you under your belt, you will add value to your company or client immediately, not to mention your career.

Integrating Hadoop

Learning Spark

A Practical Introduction

Data Integration 200 Success

Secrets - 200 Most Asked

Questions on Data Integration -

What You Need to Know

Building a Data Integration Team

A Guide to Free and Low-Cost

Solutions

The proposed book will discuss various aspects of big data

Analytics. It will deliberate upon

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the tools, technology, applications, use cases and research directions in the field. Chapters would be contributed by researchers, scientist and practitioners from various reputed universities and organizations for the benefit of readers.

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

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today. Indeed, one of the best ways to raise VC funding is to stick 'AI' or 'ML' at the front of your prospectus and ".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.

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Today, “Personalization”—the process of utilizing mobile, social, geo-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

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Adobe's warning of not using 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.

Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how



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can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-throughs, code snippets, and notebooks, you'll be able to: Learn Python, SQL, Scala, or Java high-level Structured APIs Understand Spark operations and SQL Engine Inspect, tune, and debug Spark operations with Spark

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configurations and Spark UI  
Connect to data sources: JSON, Parquet, CSV, Avro, ORC, Hive, S3, or Kafka Perform analytics on batch and streaming data using Structured Streaming  
Build reliable data pipelines with open source Delta Lake and Spark  
Develop machine learning pipelines with MLlib and productionize models using MLflow

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

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architect, developer, or production engineer new to Apache 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 guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the

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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 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

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source for stream processing  
systems

Talend for Big Data

Information Technology: New  
Generations

Concise Guide to Databases

Data Governance: The Definitive  
Guide

Distributed Data at Web Scale

A Practical Guide to Apache  
Kudu, Impala, and Spark

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This third edition—updated for Cassandra 4.0—provides the

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technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's nonrelational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample

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applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data 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 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

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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, 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



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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 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

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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.

Work with petabyte-scale datasets while building a collaborative, agile workplace in the process. This practical book is the canonical reference to Google BigQuery, the query engine that lets you conduct interactive analysis of large datasets.

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BigQuery enables enterprises to efficiently store, query, ingest, and learn from their data in a convenient framework. With this book, you'll examine how to analyze data at scale to derive insights from large datasets efficiently. Valliappa Lakshmanan, tech lead for Google Cloud Platform, and Jordan Tigani, engineering director for the BigQuery team, provide best practices for modern data warehousing within an autoscaled, serverless public cloud. Whether you want to explore parts of BigQuery you're not familiar with or prefer to focus on specific tasks, this reference is indispensable.

The data lake is a daring new approach for harnessing the

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power of big data technology and providing convenient self-service capabilities. But is it right for your company? This book is based on discussions with practitioners and executives from more than a hundred organizations, ranging from data-driven companies such as Google, LinkedIn, and Facebook, to governments and traditional corporate enterprises. You'll learn what a data lake is, why enterprises need one, and how to build one successfully with the best practices in this book. Alex Gorelik, CTO and founder of Waterline Data, explains why old systems and processes can no longer support data needs in the enterprise. Then, in a collection of essays about data lake implementation, you'll examine

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data lake initiatives, analytic projects, experiences, and best practices from data experts working in various industries. Get a succinct introduction to data warehousing, big data, and data science Learn various paths enterprises take to build a data lake Explore how to build a self-service model and best practices for providing analysts access to the data Use different methods for architecting your data lake Discover ways to implement a data lake from experts in different industries

Enterprise Integration Patterns  
Big Data Integration  
Master Data Management  
Getting Started with Talend Open Studio for Data Integration  
13th International Conference on

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Information Technology

Pentaho Kettle Solutions

This book collects articles presented at the 13th International Conference on Information Technology- New Generations, April, 2016, in Las Vegas, NV USA.

It includes over 100 chapters on critical areas of IT including Web Technology, Communications, Security, and Data Mining.

Christian Fürber investigates the useful application of semantic technologies for the area of data quality management. Based on a literature analysis of typical data quality problems and typical activities of data quality management processes, he develops the Semantic Data

Quality Management framework as the major contribution of this thesis. The SDQM framework consists of three components that are evaluated in two different use cases. Moreover, this thesis compares the framework to conventional data quality software. Besides the framework, this thesis delivers important theoretical findings, namely a comprehensive typology of data quality problems, ten generic data requirement types, a requirement-centric data quality management process, and an analysis of related work.

Every enterprise application creates data, whether it consists of log messages, metrics, user

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activity, or outgoing messages. Moving all this data is just as important as the data itself. With this updated edition, application architects, developers, and production engineers new to the Kafka streaming platform will learn how to handle data in motion. Additional chapters cover Kafka's AdminClient API, transactions, new security features, and tooling changes. Engineers from Confluent and LinkedIn 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



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Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. You'll examine: Best practices for deploying and configuring Kafka Kafka producers and consumers for writing and reading messages Patterns and use-case requirements to ensure reliable data delivery Best practices for building data pipelines and applications with Kafka How to perform monitoring, tuning, and maintenance tasks with Kafka in production The most critical metrics among Kafka's operational measurements Kafka's delivery capabilities for stream processing

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systems

The most comprehensive Guide yet of Data Integration. Data incorporation includes rolling into one information inhabiting in dissimilar origins and delivering consumers with a united view of those information. This procedure goes important in a diversity of circumstances, that contain either profit-oriented (when 2 alike businesses demand to combine their databases) and methodical (combining study outcomes as of dissimilar bioinformatics depositories, for example) areas. Data incorporation shows with expanding incidence as the capacity and the demand to share existent information blows up. It

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has come to be the center of encompassing hypothetical work, and countless open difficulties stay Unsolved. In administration groups, folks often allude to information incorporation as 'enterprise Information Integration' (EII). There has never been a Data Integration Guide like this. It contains 200 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know

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about Data Integration. A quick look inside of some of the subjects covered: Hadoop - Commercially supported Hadoop-related products, Directory service - LDAP implementations, Data integration - Data Integration in the Life Sciences, Fabasoft Mindbreeze - Fabasoft Mindbreeze Solutions, Information Sciences Institute - Customers, startups, and spinoffs, Talend - Data management, Infrastructure optimization - Optimization Models, Data virtualization - Reference Books, CASE tool - Environments, Master data management Solutions, Federated database system - Five Level Schema Architecture for FDBSs, E-GIF - Selection of e-GIF

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specifications has been driven by,  
and much more...

Big Data For Dummies  
Data Warehousing, Analytics, and  
Machine Learning at Scale

Talend Open Studio Cookbook  
Big Data Analytics  
Data Lake for Enterprises

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

**A key task that any  
aspiring data-driven  
organization needs to  
learn is data wrangling,  
the process of converting  
raw data into something  
truly useful. This  
practical guide provides  
business analysts with an  
overview of various data  
wrangling techniques and  
tools, and puts the  
practice of data  
wrangling into context by  
asking, "What are you  
trying to do and why?"  
Wrangling data consumes**

**roughly 50-80% of an analyst's time before any kind of analysis is possible. Written by key executives at Trifacta, this book walks you through the wrangling process by exploring several factors—time, granularity, scope, and structure—that you need to consider as you begin to work with data. You'll learn a shared language and a comprehensive understanding of data wrangling, with an emphasis on recent agile analytic processes used**

**by many of today's data-driven organizations.**

**Appreciate the importance—and the satisfaction—of wrangling data the right way.**

**Understand what kind of data is available Choose which data to use and at what level of detail**

**Meaningfully combine multiple sources of data**

**Decide how to distill the results to a size and shape that can drive downstream analysis**

**Practical Techniques for Data Preparation**