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# Data Warehousing Solutions

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The Essential Guide to Data Warehousing Addison-Wesley Professional

The biggest names in Data Warehousing tell what they would do in the difficult situations DW professionals face every day. The book contains very real problem situations, and very practical solutions.

**Impossible Data Warehouse Situations** Packt Publishing Ltd

Data mapping in a data warehouse is the process of creating a link between two distinct data models' (source and target) tables/attributes. Data mapping is required at many stages of DW life-cycle to help save processor overhead; every stage has its own unique requirements and challenges. Therefore, many data warehouse professionals want to learn data mapping in order to move from an ETL (extract, transform, and load data between databases) developer to a data modeler role.

Data Mapping for Data Warehouse Design provides basic and advanced knowledge about business intelligence and data warehouse concepts including real life scenarios that apply the standard techniques to projects across various domains. After reading this book, readers will understand the importance of data mapping across the data warehouse life cycle. Covers all stages of data warehousing and the role of data mapping in each

Includes a data mapping strategy and techniques that can be applied to many situations Based on the author's years of real-world experience designing solutions

Oracle Data Warehousing and Business Intelligence Solutions Addison-Wesley Professional

Organization of data warehouses is a vital, but often neglected, aspect of growing an enterprise. Unlike

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most books on the subject that focus on either the technical aspects of building data warehouses or on business strategies, this valuable reference synthesizes technological know-how with managerial best practices to show how improved alignment between data warehouse plans and business strategies can lead to successful data warehouse adoption, capable of supporting an enterprise's entire infrastructure. Strategic Data Warehousing: Achieving Alignment with Business provides data warehouse developers, business managers, and IT professionals and administrators with an integrated approach to achieving successful and sustainable alignment of data warehouses and business goals. More complete than any other text in the field, this comprehensive reference details the joint roles and responsibilities of the data warehouse and business managers in achieving strategic alignment, business user satisfaction, technical integration, and improved flexibility. Complete with case studies that depict real-world scenarios, the text: Examines the organizational, user, data, and technological factors

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proven to promote successful data warehousing Includes actionable solutions for achieving strategic alignment Provides a model that readers can apply in aligning their own data warehouse needs and business goals Achieving sustainable alignment between the data warehouse and business strategies is a continuous process. Armed with this valuable reference, readers will be able to gain the solid understanding of the organizational, technical, data, and user factors needed to promote a successful data warehouse adoption and become active partners in

leveraging this powerful, but often overlooked, information resource.

## **New Insights in Data Warehousing Solutions**

Springer Nature

From concept to deployment in just 13 weeks! A proven approach to building a fully functional data mart quickly, efficiently, inexpensively.

From one of the leading data warehousing experts, here is a proven approach to building a departmental data mart in 13 weeks. Rather than provide a cookbook describing how to build a particular type of data mart using a specific set of tools, bestselling author Alan Simon provides you with a detailed blueprint that can be used to construct virtually any type of data mart. Following a brief overview of key concepts and terms, Simon launches into a week-by-week action plan, beginning with the initial planning and project definition stages in Weeks 1 and 2, and

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ending with acceptance testing, fine-tuning, and deployment in Week 13. The approach outlined works equally well for both ROLAP and MOLAP data marts, regardless of the products or technologies you use to build your mart. Whether your goal is to provide basic querying reporting, OLAP, EIS, data mining, or any combination of these, you'll find everything you need to get the job done right, in record time, and within budget, including:

- \* A proven approach to building a data mart in 90 days
- \* Step-by-step guidelines to all organizational, procedural, and technical steps involved
- \* Numerous checklists that help you make sure all the bases are covered
- \* Expert advice on how to make the most of particular technologies and products.

VISIT OUR WEBSITE AT [www.wiley.com/compbooks/Data Warehouses and OLAP](http://www.wiley.com/compbooks/Data Warehouses and OLAP)  
Packt Publishing Ltd  
Construct and implement a data warehousing plan. In

their efforts to collect information that will give them an edge, many companies have amassed vast amounts of data. Often this data becomes unwieldy and difficult to translate into anything useful. Data warehousing, storing all of this data in a system that allows for rapid retrieval of customized information, is the solution. This book, written by a data warehousing authority, is a step-by-step guide to creating and managing a data warehouse from start to finish, reviewing marketing, technology, and design issues.

**Data Warehousing in the Real World** Newnes  
Supercharge and deploy Amazon Redshift Serverless, train and deploy machine learning models using Amazon Redshift ML, and run inference queries at scale  
Key Features Leverage supervised learning to build binary classification, multi-class classification, and regression models  
Learn to use unsupervised learning using the

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K-means clustering method  
Master the art of time series forecasting using Redshift ML  
Purchase of the print or Kindle book includes a free PDF eBook  
Book Description Amazon Redshift Serverless enables organizations to run petabyte-scale cloud data warehouses quickly and in a cost-effective way, enabling data science professionals to efficiently deploy cloud data warehouses and leverage easy-to-use tools to train models and run predictions. This practical guide will help developers and data professionals working with Amazon Redshift data warehouses to put their SQL knowledge to work for training and deploying machine learning models. The book begins by helping you to explore the inner workings of Redshift Serverless as well as the foundations of data analytics and types of data machine learning. With the help of step-by-step explanations of essential concepts and practical examples, you ' ll then learn to build your own classification and regression models. As you advance, you ' ll find out how to

deploy various types of machine learning projects using familiar SQL code, before delving into Redshift ML. In the concluding chapters, you ' ll discover best practices for implementing serverless architecture with Redshift. By the end of this book, you ' ll be able to configure and deploy Amazon Redshift Serverless, train and deploy machine learning models using Amazon Redshift ML, and run inference queries at scale. What you will learn Utilize Redshift Serverless for data ingestion, data analysis, and machine learning Create supervised and unsupervised models and learn how to supply your own custom parameters Discover how to use time series forecasting in your data warehouse Create a SageMaker endpoint and use that to build a Redshift ML model for remote inference Find out how to operationalize machine learning in your data warehouse Use model explainability and calculate probabilities with Amazon Redshift ML Who this book is for Data scientists and machine learning developers

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working with Amazon Redshift who want to explore its machine-learning capabilities will find this definitive guide helpful. A basic understanding of machine learning techniques and working knowledge of Amazon Redshift is needed to make the most of this book.

### Building Big Data

Applications Tata McGraw-Hill Education

What is a cloud data warehouse? Comparing data warehouse solutions How to choose a cloud data warehouse Achieve a competitive advantage with the power of cloud data warehousing Modern organizations now have access to exponentially larger amounts of data they can analyze to gain the deepest insights possible. In addition, organizations want to securely share data - and acquire shared data - across their business units, within their business ecosystems, and beyond by using data

exchanges to monetize that data. But accessing that data poses even greater challenges that continue to plague traditional data analytics platforms. Modern enterprises now realize that cloud data warehousing is the most effective and cost-efficient way to store and analyze all their data for all their business users. This book reveals what's available and how your organization can benefit from this new and exciting technology. Inside... Why the cloud data warehouse emerged How the cloud data warehouse compares How to evaluate different warehouses Why security and governance matter The benefits of a cross-cloud solution How modern data sharing delivers even deeper insights Real-world case studies Data Warehousing in Action Anouar BEN ZAHRA Data Warehouses are the primary means by which businesses can gain competitive

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advantage through analysing and using the information stored in their computerised systems. However, the Data Warehousing market is inundated with confusing, often contradictory, technical information from suppliers of hardware, databases and tools. Data Warehousing in the Real World provides comprehensive guidelines and techniques for the delivery of decision support solutions using open-systems Data Warehouses. Written by practitioners for practitioners Data Warehousing in the Real World describes each stage of the implementation process in detail: from project planning and requirements analysis, through architecture and design to administrative issues such as user access, security, back-up and recovery. Read this book to: - Learn the fundamentals of designing large-scale Data Warehouses using relational technology- Take advantage of product-independent comprehensive guidelines which cover all the issues you need to take into account when planning

and building a Data Warehouse- Benefit from the authors' experience distilled into helpful hints and tips- Apply to your own situation with examples of real-life solutions taken from a variety of different business sectors- Make use of the templates for project-plans, system architectures and database designs provided in the appendix About the Authors: Sam Anahory is Director for Systems Integration at SHL Systemhouse (UK) where he runs their Data Warehousing practice, delivering Data Warehousing solutions to clients and managing the systems integration required. Prior to this, he built up and ran the Data Warehousing Practice for Oracle Corporation (UK). Dennis Murray is a Principal consultant with Oracle Corporation (UK). While through being the Technical Architect for many Data Warehousing solutions, he has accumulated a vast amount of experience on a wide range of hardware platforms. Together they have collaborated on developing and giving training courses, workshops and



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presentations on the business and technical issues associated with delivering a Data Warehouse. Building Cloud Data Platforms Solutions Apress  
Building upon his earlier book that detailed agile data warehousing programming techniques for the Scrum master, Ralph's latest work illustrates the agile interpretations of the remaining software engineering disciplines: Requirements management benefits from streamlined templates that not only define projects quickly, but ensure nothing essential is overlooked. Data engineering receives two new "hyper modeling" techniques, yielding data warehouses that can be easily adapted when requirements change without having to invest in ruinously expensive data-conversion programs. Quality assurance advances with not only a stereoscopic top-down and bottom-up planning method, but also the incorporation of the latest in automated test engines. Use this step-by-step guide to deepen your own application

development skills through self-study, show your teammates the world's fastest and most reliable techniques for creating business intelligence systems, or ensure that the IT department working for you is building your next decision support system the right way. Learn how to quickly define scope and architecture before programming starts Includes techniques of process and data engineering that enable iterative and incremental delivery Demonstrates how to plan and execute quality assurance plans and includes a guide to continuous integration and automated regression testing Presents program management strategies for coordinating multiple agile data mart projects so that over time an enterprise data warehouse emerges Use the provided 120-day road map to establish a robust, agile data warehousing program Pentaho Solutions John Wiley & Sons  
Build a modern data warehouse on Microsoft's Azure Platform that is flexible,

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adaptable, and fast—fast to snap together, reconfigure, and fast at delivering results to drive good decision making in your business. Gone are the days when data warehousing projects were lumbering dinosaur-style projects that took forever, drained budgets, and produced business intelligence (BI) just in time to tell you what to do 10 years ago. This book will show you how to assemble a data warehouse solution like a jigsaw puzzle by connecting specific Azure technologies that address your own needs and bring value to your business. You will see how to implement a range of architectural patterns using batches, events, and streams for both data lake technology and SQL databases. You will discover how to manage metadata and automation to accelerate the development of your warehouse while establishing resilience at every level. And you will know how to feed downstream analytic solutions such as Power BI and Azure Analysis Services to empower data-driven decision making that drives your business forward toward a pattern of success. This book teaches you how to employ the Azure platform in a strategy to dramatically improve implementation speed and flexibility of data warehousing systems. You will know how to make correct decisions in design, architecture, and infrastructure such as choosing which type of SQL engine (from at least three options) best meets the needs of your organization. You also will learn about ETL/ELT structure and the vast number of accelerators and patterns that can be used to aid implementation and ensure resilience. Data warehouse developers and architects will find this book a tremendous resource for moving their skills

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into the future through cloud-based implementations. What You Will Learn Choose the appropriate Azure SQL engine for implementing a given data warehouse Develop smart, reusable ETL/ELT processes that are resilient and easily maintained Automate mundane development tasks through tools such as PowerShell Ensure consistency of data by creating and enforcing data contracts Explore streaming and event-driven architectures for data ingestion Create advanced staging layers using Azure Data Lake Gen 2 to feed your data warehouse Who This Book Is For Data warehouse or ETL/ELT developers who wish to implement a data warehouse project in the Azure cloud, and developers currently working in on-premise environments who want to move to the cloud, and for developers with Azure experience looking to tighten

up their implementation and consolidate their knowledge Data Warehousing and Analytics John Wiley & Sons Data management and analytics simplified with Teradata Key Features Take your understanding of Teradata to the next level and build efficient data warehousing applications for your organization Covers recipes on data handling, warehousing, advanced querying and the administrative tasks in Teradata. Contains practical solutions to tackle common (and not-so-common) problems you might encounter in your day to day activities Book Description Teradata is an enterprise software company that develops and sells its eponymous relational database management system (RDBMS), which is

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considered to be a leading data warehousing solutions and provides data management solutions for analytics. This book will help you get all the practical information you need for the creation and implementation of your data warehousing solution using Teradata. The book begins with recipes on quickly setting up a development environment so you can work with different types of data structuring and manipulation function. You will tackle all problems related to efficient querying, stored procedure searching, and navigation techniques. Additionally, you ' ll master various administrative tasks such as user and security management, workload management, high availability, performance tuning, and monitoring. This book is designed to take you

through the best practices of performing the real daily tasks of a Teradata DBA, and will help you tackle any problem you might encounter in the process. What you will learn Understand Teradata's competitive advantage over other RDBMSs. Use SQL to process data stored in Teradata tables. Leverage Teradata ' s available application utilities and parallelism to play with large datasets Apply various performance tuning techniques to optimize the queries. Acquire deeper knowledge and understanding of the Teradata Architecture. Easy steps to load, archive, restore data and implement Teradata protection features Gain confidence in running a wide variety of Data analytics and develop

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applications for the Teradata environment Who this book is for This book is for Database administrator's and Teradata users who are looking for a practical, one-stop resource to solve all their problems while handling their Teradata solution. If you are looking to learn the basic as well as the advanced tasks involved in Teradata querying or administration, this book will be handy. Some knowledge of relational database concepts will be helpful to get the best out of this book. Data Warehousing For Dummies Auerbach Publications Big Data Imperatives, focuses on resolving the key questions on everyone 's mind: Which data matters? Do you have enough data volume to justify the usage? How you want to process this amount of data? How long do you really need

to keep it active for your analysis, marketing, and BI applications? Big data is emerging from the realm of one-off projects to mainstream business adoption; however, the real value of big data is not in the overwhelming size of it, but more in its effective use. This book addresses the following big data characteristics: Very large, distributed aggregations of loosely structured data – often incomplete and inaccessible Petabytes/Exabytes of data Millions/billions of people providing/contributing to the context behind the data Flat schema's with few complex interrelationships Involves time-stamped events Made up of incomplete data Includes connections between data elements that must be probabilistically inferred Big Data Imperatives explains 'what big data can do'. It can batch process millions and billions of records both

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unstructured and structured much faster and cheaper. Big data analytics provide a platform to merge all analysis which enables data analysis to be more accurate, well-rounded, reliable and focused on a specific business capability. Big Data Imperatives describes the complementary nature of traditional data warehouses and big-data analytics platforms and how they feed each other. This book aims to bring the big data and analytics realms together with a greater focus on architectures that leverage the scale and power of big data and the ability to integrate and apply analytics principles to data which earlier was not accessible. This book can also be used as a handbook for practitioners; helping them on methodology, technical architecture, analytics techniques and best practices. At the same time, this book intends to hold the interest of

those new to big data and analytics by giving them a deep insight into the realm of big data.

90 Days to the Data Mart  
Packt Publishing Ltd  
Leverage the power of Microsoft Azure Data Factory v2 to build hybrid data solutions Key Features  
Combine the power of Azure Data Factory v2 and SQL Server Integration Services  
Design and enhance performance and scalability of a modern ETL hybrid solution  
Interact with the loaded data in data warehouse and data lake using Power BI Book  
Description ETL is one of the essential techniques in data processing. Given data is everywhere, ETL will always be the vital process to handle data from different sources.  
Hands-On Data Warehousing with Azure Data Factory starts with the basic concepts of data warehousing and ETL process. You will learn how

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Azure Data Factory and SSIS can be used to understand the key components of an ETL solution. You will go through different services offered by Azure that can be used by ADF and SSIS, such as Azure Data Lake Analytics, Machine Learning and Databrick 's Spark with the help of practical examples. You will explore how to design and implement ETL hybrid solutions using different integration services with a step-by-step approach. Once you get to grips with all this, you will use Power BI to interact with data coming from different sources in order to reveal valuable insights. By the end of this book, you will not only learn how to build your own ETL solutions but also address the key challenges that are faced while building them. What you will learn

Understand the key components of an ETL solution using Azure Data Factory and Integration

Services Design the architecture of a modern ETL hybrid solution Implement ETL solutions for both on-premises and Azure data Improve the performance and scalability of your ETL solution Gain thorough knowledge of new capabilities and features added to Azure Data Factory and Integration Services Who this book is for This book is for you if you are a software professional who develops and implements ETL solutions using Microsoft SQL Server or Azure cloud. It will be an added advantage if you are a software engineer, DW/ETL architect, or ETL developer, and know how to create a new ETL implementation or enhance an existing one with ADF or SSIS.

Big Data Imperatives John Wiley & Sons

Enterprises today have recognized the importance of data warehousing solutions in making strategic

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business decisions. This thought-provoking book provides a practical line of attack to planning, building and managing a successful data warehouse. It incorporates: A business driven approach with numerous real life issues for tackling various problems encountered in every data warehousing task. The best practices developed from tried and tested methods during various project life cycles. Every important aspect the concept of data warehousing, the reasons behind it, the framework, the planning and implementation and the delivery of a data warehouse. Cloud Data Warehousing Fd, Snowflake Special Edition (Custom) John Wiley & Sons Big Data. Complex Data. It s what s for dinner!  
Data Warehousing Packt Publishing Ltd

This textbook covers all central activities of data warehousing and analytics, including transformation, preparation, aggregation, integration, and analysis. It discusses the full spectrum of the journey of data from operational / transactional databases, to data warehouses and data analytics; as well as the role that data warehousing plays in the data processing lifecycle. It also explains in detail how data warehouses may be used by data engines, such as BI tools and analytics algorithms to produce reports, dashboards, patterns, and other useful information and knowledge. The book is divided into six parts, ranging from the basics of data warehouse design (Part I - Star Schema, Part II - Snowflake and Bridge Tables, Part III -



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Advanced Dimensions, and Part IV - Multi-Fact and Multi-Input), to more advanced data warehousing concepts (Part V - Data Warehousing and Evolution) and data analytics (Part VI - OLAP, BI, and Analytics). This textbook approaches data warehousing from the case study angle. Each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty, hence learning is incremental. In addition, every chapter has also a section on further readings which give pointers and references to research papers related to the chapter. All these features make the book ideally suited for either introductory courses on data warehousing and data analytics, or even for self-studies by professionals. The

book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises.

The Modern Data Warehouse in Azure Addison-Wesley Professional

Develop modern solutions with Snowflake's unique architecture and integration capabilities; process bulk and real-time data into a data lake; and leverage time travel, cloning, and data-sharing features to optimize data operations Key Features Build and scale modern data solutions using the all-in-one Snowflake platform Perform advanced cloud analytics for implementing big data and data science solutions Make quicker and better-informed business decisions by uncovering key insights from your data Book Description Snowflake is a unique cloud-based data warehousing platform built from scratch to perform data management on the cloud. This book introduces you to Snowflake's unique architecture,

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which places it at the forefront of cloud data warehouses. You'll explore the compute model available with Snowflake, and find out how Snowflake allows extensive scaling through the virtual warehouses. You will then learn how to configure a virtual warehouse for optimizing cost and performance. Moving on, you'll get to grips with the data ecosystem and discover how Snowflake integrates with other technologies for staging and loading data. As you progress through the chapters, you will leverage Snowflake's capabilities to process a series of SQL statements using tasks to build data pipelines and find out how you can create modern data solutions and pipelines designed to provide high performance and scalability. You will also get to grips with creating role hierarchies, adding custom roles, and setting default roles for users before covering advanced topics such as data sharing, cloning, and performance optimization. By the end of this Snowflake book, you will be well-versed in Snowflake's architecture for building modern

analytical solutions and understand best practices for solving commonly faced problems using practical recipes. What you will learn Get to grips with data warehousing techniques aligned with Snowflake's cloud architecture Broaden your skills as a data warehouse designer to cover the Snowflake ecosystem Transfer skills from on-premise data warehousing to the Snowflake cloud analytics platform Optimize performance and costs associated with a Snowflake solution Stage data on object stores and load it into Snowflake Secure data and share it efficiently for access Manage transactions and extend Snowflake using stored procedures Extend cloud data applications using Spark Connector Who this book is for This book is for data warehouse developers, data analysts, database administrators, and anyone involved in designing, implementing, and optimizing a Snowflake data warehouse. Knowledge of data warehousing and database and cloud concepts will be useful. Basic familiarity

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with Snowflake is beneficial, but not necessary.

### Data Mapping for Data Warehouse Design Newnes

Your all-in-one resource for using Pentaho with MySQL for Business Intelligence and Data Warehousing Open-source Pentaho provides business intelligence (BI) and data warehousing solutions at a fraction of the cost of proprietary solutions. Now you can take advantage of Pentaho for your business needs with this practical guide written by two major participants in the Pentaho community. The book covers all components of the Pentaho BI Suite. You'll learn to install, use, and maintain Pentaho and find plenty of background discussion that will bring you thoroughly up to speed on BI and Pentaho concepts. Of all available open source

BI products, Pentaho offers the most comprehensive toolset and is the fastest growing open source product suite. Explains how to build and load a data warehouse with Pentaho Kettle for data integration/ETL, manually create JFree (Pentaho reporting services) reports using direct SQL queries, and create Mondrian (Pentaho analysis services) cubes and attach them to a JPivot cube browser. Review deploying reports, cubes and metadata to the Pentaho platform in order to distribute BI solutions to end-users. Shows how to set up scheduling, subscription and automatic distribution. The companion Web site provides complete source code examples, sample data, and links to related resources.

Social Data Analytics Prentice

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Hall

Amazon Redshift powers analytic cloud data warehouses worldwide, from startups to some of the largest enterprise data warehouses available today. This practical guide thoroughly examines this managed service and demonstrates how you can use it to extract value from your data immediately, rather than go through the heavy lifting required to run a typical data warehouse. Analytic specialists Rajesh Francis, Rajiv Gupta, and Milind Oke detail Amazon Redshift's underlying mechanisms and options to help you explore out-of-the box automation. Whether you're a data engineer who wants to learn the art of the possible or a DBA looking to take advantage of machine learning-based auto-tuning, this book helps you get the most value from Amazon Redshift. By understanding Amazon Redshift features, you'll achieve excellent analytic performance at the best price, with the least effort. This book helps you: Build a cloud data strategy around Amazon

Redshift as foundational data

warehouse Get started with Amazon Redshift with simple-to-use data models and design best practices Understand how and when to use Redshift Serverless and Redshift provisioned clusters Take advantage of auto-tuning options inherent in Amazon Redshift and understand manual tuning options Transform your data platform for predictive analytics using Redshift ML and break silos using data sharing Learn best practices for security, monitoring, resilience, and disaster recovery Leverage Amazon Redshift integration with other AWS services to unlock additional value Cloud Data Warehousing for Dummies, 2nd Snowflake Special Edition (Custom) John Wiley & Sons The rise of the Data Cloud is ushering in a new era of computing. The world 's digital data is mass migrating to the cloud, where it can be more effectively integrated, managed, and mobilized. The data cloud eliminates data

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siloes and enables data sharing with business partners, capitalizing on data network effects. It democratizes data analytics, making the most sophisticated data science tools accessible to organizations of all sizes. Data exchanges enable businesses to discover, explore, and easily purchase or sell data—opening up new revenue streams. Business leaders have long dreamed of data driving their organizations. Now, thanks to the Data Cloud, nothing stands in their way.