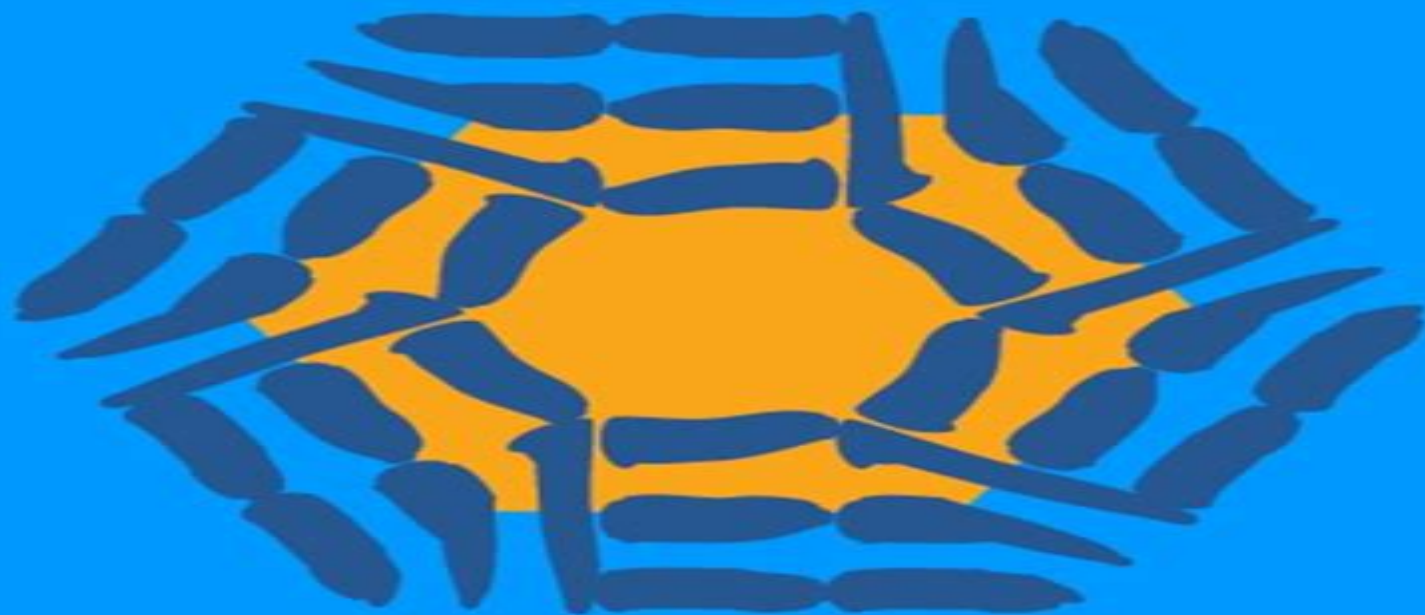


Better Data Modeling



AN INTRODUCTION TO
AGILE DATA ENGINEERING
USING DATA VAULT 2.0

Kent Graziano

Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault

Ralph Hughes



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An Introduction to Agile Data Engineering Using Data Vault 2.0 Kent Graziano, 2015-11-22 The world of data warehousing is changing Big Data Agile are hot topics But companies still need to collect report and analyze their data Usually this requires some form of data warehousing or business intelligence system So how do we do that in the modern IT landscape in a way that allows us to be agile and either deal directly or indirectly with unstructured and semi structured data The Data Vault System of Business Intelligence provides a method and approach to modeling your enterprise data warehouse EDW that is agile flexible and scalable This book will give you a short introduction to Agile Data Engineering for Data Warehousing and Data Vault 2.0 I will explain why you should be trying to become Agile some of the history and rationale for Data Vault 2.0 and then show you the basics for how to build a data warehouse model using the Data Vault 2.0 standards In addition I will cover some details about the Business Data Vault what it is and then how to build a virtual Information Mart off your Data Vault and Business Vault using the Data Vault 2.0 architecture So if you want to start learning about Agile Data Engineering with Data Vault 2.0 this book is for you

Data Engineering with dbt Roberto Zagni, 2023-06-30 Use easy to apply patterns in SQL and Python to adopt modern analytics engineering to build agile platforms with dbt that are well tested and simple to extend and run Purchase of the print or Kindle book includes a free PDF eBook Key Features Build a solid dbt base and learn data modeling and the modern data stack to become an analytics engineer Build automated and reliable pipelines to deploy test run and monitor ELTs with dbt Cloud Guided dbt Snowflake project to build a pattern based architecture that delivers reliable datasets Book Description dbt Cloud helps professional analytics engineers automate the application of powerful and proven patterns to transform data from ingestion to delivery enabling real DataOps This book begins by introducing you to dbt and its role in the data stack along with how it uses simple SQL to build your data platform helping you and your team work better together You ll find out how to leverage data modeling data quality master data management and more to build a simple to understand and future proof solution As you advance you ll explore the modern data stack understand how data related careers are changing and see how dbt enables this transition into the emerging role of an analytics engineer The chapters help you build a sample project using the free version of dbt Cloud Snowflake and GitHub to create a professional DevOps setup with continuous integration automated deployment ELT run scheduling and monitoring solving practical cases you encounter in your daily work By the end of this dbt book you ll be able to build an end to end pragmatic data platform by ingesting data exported from your source systems coding the needed transformations including master data and the desired business rules and building well formed dimensional models or wide tables that ll enable you to build reports with the BI tool of your choice What you will learn Create a dbt Cloud account and understand the ELT workflow Combine Snowflake and dbt for building modern data engineering pipelines Use SQL to transform raw data into usable data and test its accuracy Write dbt macros and use Jinja to apply software engineering principles Test data and

transformations to ensure reliability and data quality Build a lightweight pragmatic data platform using proven patterns Write easy to maintain idempotent code using dbt materialization Who this book is for This book is for data engineers analytics engineers BI professionals and data analysts who want to learn how to build simple futureproof and maintainable data platforms in an agile way Project managers data team managers and decision makers looking to understand the importance of building a data platform and foster a culture of high performing data teams will also find this book useful Basic knowledge of SQL and data modeling will help you get the most out of the many layers of this book The book also includes primers on many data related subjects to help juniors get started

The Business of Data Vault Modeling Daniel Lindstedt,Kent Graziano,Hans Hultgren,2009

Agile Data Warehousing for the Enterprise Ralph Hughes,2015-09-19 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

Fundamentals of Analytics Engineering Dumky De Wilde,Fanny Kassapian,Jovan Gligorevic,Juan Manuel Perafan,Lasse Benninga,Ricardo Angel Granados Lopez,Taís Laurindo Pereira,2024-03-29 Gain a holistic understanding of the analytics engineering lifecycle by integrating principles from both data analysis and engineering Key Features Discover how analytics engineering aligns with your organization s data strategy Access insights shared by a team of seven industry experts Tackle common analytics engineering problems faced by modern businesses Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a team of 7 industry experts Fundamentals of Analytics Engineering will introduce you to everything from foundational concepts to advanced skills to get started as an analytics engineer After conquering data ingestion and techniques for data quality and scalability you ll learn about techniques such as data cleaning transformation data modeling SQL query optimization and reuse and

serving data across different platforms Armed with this knowledge you will implement a simple data platform from ingestion to visualization using tools like Airbyte Cloud Google BigQuery dbt and Tableau You ll also get to grips with strategies for data integrity with a focus on data quality and observability along with collaborative coding practices like version control with Git You ll learn about advanced principles like CI CD automating workflows gathering scoping and documenting business requirements as well as data governance By the end of this book you ll be armed with the essential techniques and best practices for developing scalable analytics solutions from end to end What you will learn Design and implement data pipelines from ingestion to serving data Explore best practices for data modeling and schema design Scale data processing with cloud based analytics platforms and tools Understand the principles of data quality management and data governance Streamline code base with best practices like collaborative coding version control reviews and standards Automate and orchestrate data pipelines Drive business adoption with effective scoping and prioritization of analytics use cases Who this book is for This book is for data engineers and data analysts considering pivoting their careers into analytics engineering Analytics engineers who want to upskill and search for gaps in their knowledge will also find this book helpful as will other data professionals who want to understand the value of analytics engineering in their organization s journey toward data maturity To get the most out of this book you should have a basic understanding of data analysis and engineering concepts such as data cleaning visualization ETL and data warehousing

Data Architecture: A Primer for the Data Scientist W.H. Inmon, Daniel Linstedt, 2014-11-26 Today the world is trying to create and educate data scientists because of the phenomenon of Big Data And everyone is looking deeply into this technology But no one is looking at the larger architectural picture of how Big Data needs to fit within the existing systems data warehousing systems Taking a look at the larger picture into which Big Data fits gives the data scientist the necessary context for how pieces of the puzzle should fit together Most references on Big Data look at only one tiny part of a much larger whole Until data gathered can be put into an existing framework or architecture it can t be used to its full potential Data Architecture a Primer for the Data Scientist addresses the larger architectural picture of how Big Data fits with the existing information infrastructure an essential topic for the data scientist Drawing upon years of practical experience and using numerous examples and an easy to understand framework W H Inmon and Daniel Linstedt define the importance of data architecture and how it can be used effectively to harness big data within existing systems You ll be able to Turn textual information into a form that can be analyzed by standard tools Make the connection between analytics and Big Data Understand how Big Data fits within an existing systems environment Conduct analytics on repetitive and non repetitive data Discusses the value in Big Data that is often overlooked non repetitive data and why there is significant business value in using it Shows how to turn textual information into a form that can be analyzed by standard tools Explains how Big Data fits within an existing systems environment Presents new opportunities that are afforded by the advent of Big Data Demystifies the murky waters of repetitive and non repetitive data in Big Data

Agile Data Warehousing Project Management Ralph Hughes, 2012-09-28 What is agile data warehousing Iterative development in a nutshell Streamlining project management Authoring better user stories Deriving initial project backlogs Developer stories for data integration Estimating and segmenting projects Adapting agile for data warehousing Starting and scaling agile data warehousing

Introduction to Data Platforms Anthony David Giordano, 2022-11-03 Digital cloud and artificial intelligence AI have disrupted how we use data This disruption has changed the way we need to provision curate and publish data for the multiple use cases in today's technology driven environment This text will cover how to design develop and evolve a data platform for all the uses of enterprise data needed in today's digital organization This book focuses on explaining what a data platform is what value it provides how is it engineered and how to deploy a data platform and support organization In this context Introduction to Data Platforms reviews the current requirements for data in the digital age and quantifies the use cases discusses the evolution of data over the past twenty years which is a core driver of the modern data platform defines what a data platform is and defines the architectural components and layers of a data platform provides the architectural layers or capabilities of a data platform reviews cloud and commercial software vendors that populate the data platform space provides a step by step approach to engineering deploying supporting and evolving a data platform environment provides a step by step approach to migrating legacy data warehouses data marts and data lakes sandboxes to a data platform and reviews organizational structures for managing data platform environments

Advanced Research in Technologies, Information, Innovation and Sustainability Teresa Guarda, Filipe Portela, Gustavo Gatica, 2025-03-12 This three volume set CCIS 2345 2347 constitutes the revised selected papers from the 4th International Conference on Advanced Research in Technologies Information Innovation and Sustainability 2024 ARTIIS 2024 held in Santiago de Chile Chile during October 21 23 2024 The 83 full papers and 8 short papers included in these proceedings were carefully reviewed and selected from 238 submissions These papers are categorized under the following topical sections Part I Computing Solutions Part II Data Intelligence Part III Sustainability Ethics Security and Privacy

Building a Scalable Data Warehouse with Data Vault 2.0 Daniel Linstedt, Michael Olschimke, 2015-09-15 The Data Vault was invented by Dan Linstedt at the U S Department of Defense and the standard has been successfully applied to data warehousing projects at organizations of different sizes from small to large size corporations Due to its simplified design which is adapted from nature the Data Vault 2.0 standard helps prevent typical data warehousing failures Building a Scalable Data Warehouse covers everything one needs to know to create a scalable data warehouse end to end including a presentation of the Data Vault modeling technique which provides the foundations to create a technical data warehouse layer The book discusses how to build the data warehouse incrementally using the agile Data Vault 2.0 methodology In addition readers will learn how to create the input layer the stage layer and the presentation layer data mart of the Data Vault 2.0 architecture including implementation best practices Drawing upon years of practical experience and using numerous examples and an easy to

understand framework Dan Linstedt and Michael Olschimke discuss How to load each layer using SQL Server Integration Services SSIS including automation of the Data Vault loading processes Important data warehouse technologies and practices Data Quality Services DQS and Master Data Services MDS in the context of the Data Vault architecture Provides a complete introduction to data warehousing applications and the business context so readers can get up and running fast Explains theoretical concepts and provides hands on instruction on how to build and implement a data warehouse Demystifies data vault modeling with beginning intermediate and advanced techniques Discusses the advantages of the data vault approach over other techniques also including the latest updates to Data Vault 2.0 and multiple improvements to Data Vault 1.0

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Table of Contents Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault

1. Understanding the eBook Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - The Rise of Digital Reading Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Advantages of eBooks Over Traditional Books
2. Identifying Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - User-Friendly Interface
4. Exploring eBook Recommendations from Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Personalized Recommendations
 - Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault User Reviews and Ratings
 - Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault and Bestseller Lists
5. Accessing Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault Free and Paid eBooks
 - Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault Public Domain eBooks

- Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault eBook Subscription Services
- Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault Budget-Friendly Options
- 6. Navigating Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault eBook Formats
 - ePub, PDF, MOBI, and More
 - Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault Compatibility with Devices
 - Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Highlighting and Note-Taking Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Interactive Elements Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
- 8. Staying Engaged with Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
- 9. Balancing eBooks and Physical Books Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Setting Reading Goals Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Better Data Modeling An Introduction To Agile Data Engineering Using Data Vault
 - Fact-Checking eBook Content of Better Data Modeling An Introduction To Agile Data Engineering Using Data

Vault

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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