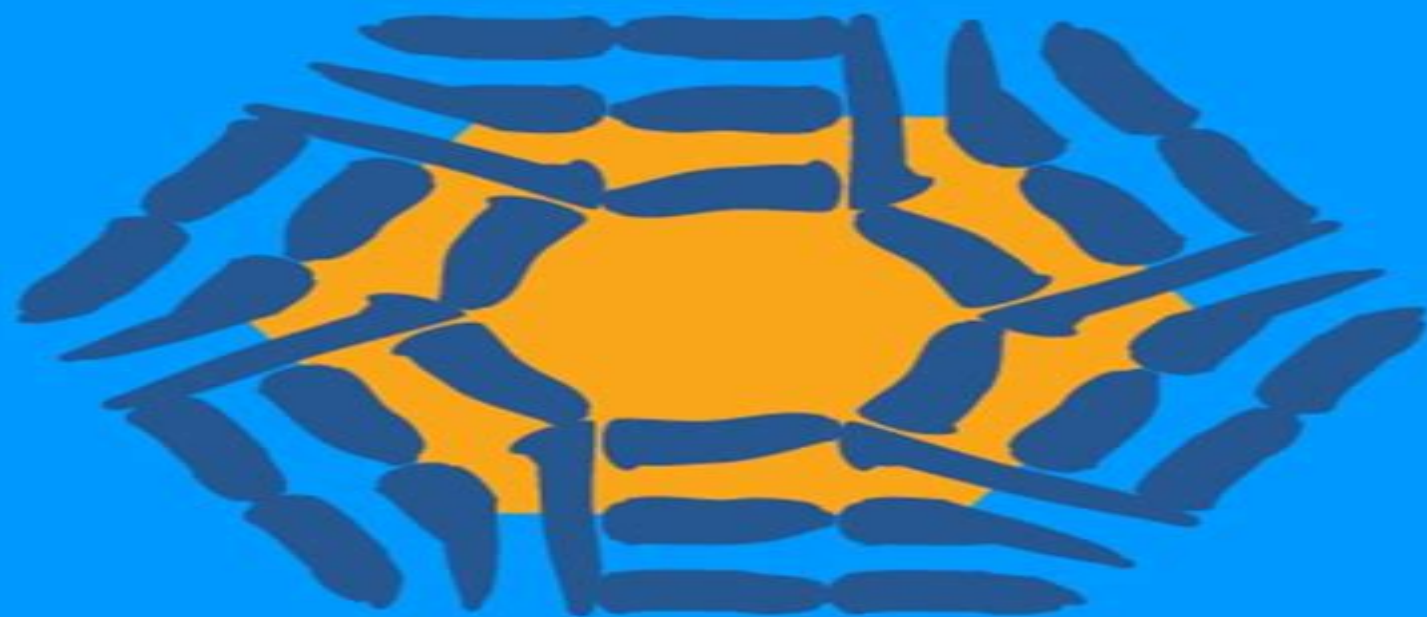


Better Data Modeling



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

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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

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

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

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