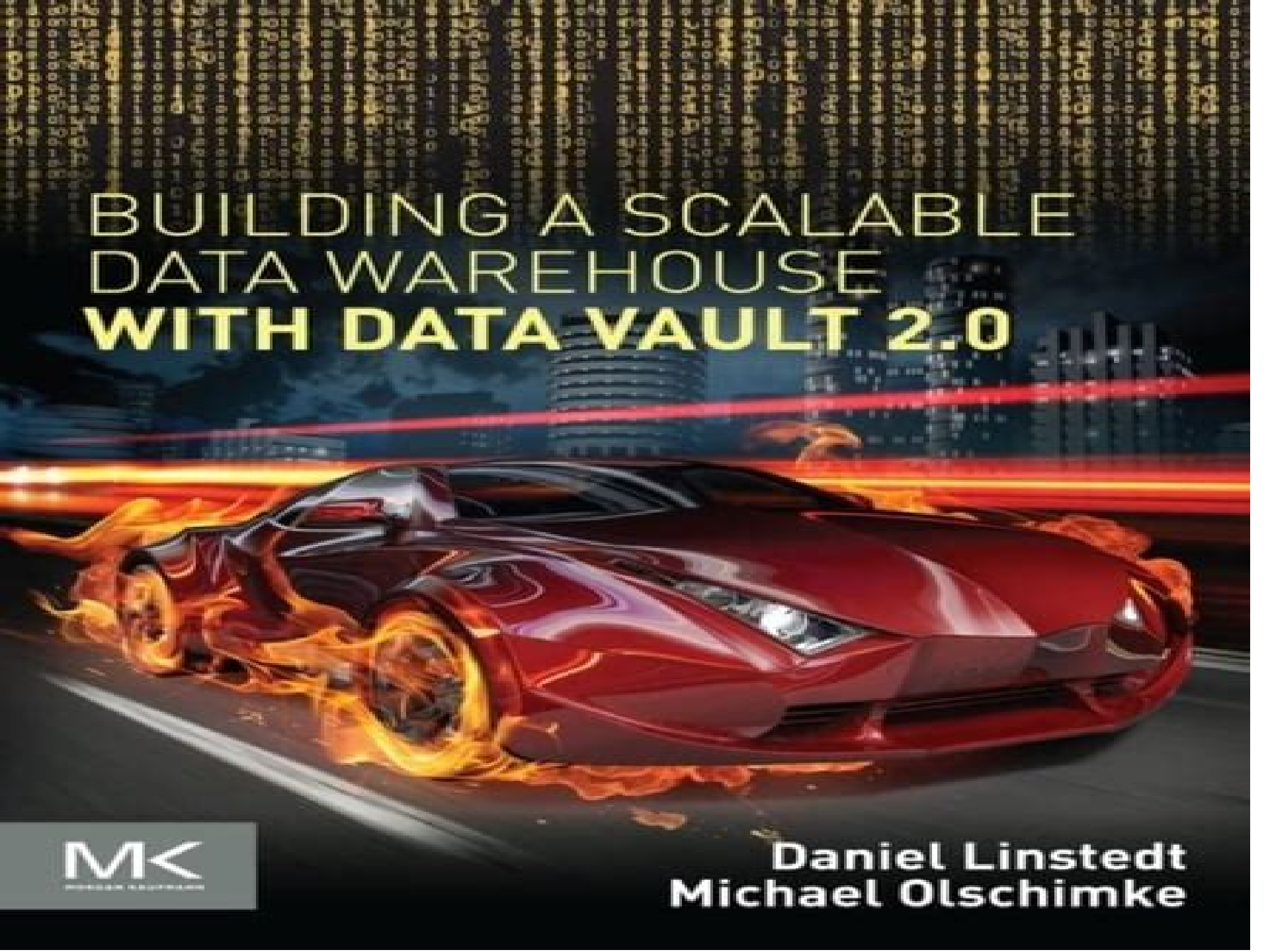




# BUILDING A SCALABLE DATA WAREHOUSE **WITH DATA VAULT 2.0**

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MODERN SOFTWARE

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# Building A Scalable Data Warehouse With Data Vault

**Daniel Linstedt, Michael Olschimke**



## **Building A Scalable Data Warehouse With Data Vault :**

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      Conceptual Modeling Alberto H. F. Laender, Barbara Pernici, Ee-Peng Lim, José Palazzo M. de Oliveira, 2019-10-28 This book constitutes the refereed proceedings of the 38th International Conference on Conceptual Modeling ER 2019 held in Salvador Brazil in November 2019 The 22 full and 22 short papers presented together with 4 keynotes were carefully reviewed and selected from 142 submissions This events covers a wide range of topics covered in the following sessions conceptual modeling big data technology I process modeling and analysis query approaches big data technology II domain specific models I domain specific models II decision making complex systems modeling model unification big data technology III and requirements modeling      **Fundamentals of Data Engineering** Joe Reis, Matt Housley, 2022-06-22 Data engineering has grown rapidly in the past decade leaving many software engineers data scientists and analysts looking for a comprehensive view of this practice With this practical book you will learn how to plan and build systems to serve the needs of your organization and customers by evaluating the best technologies available in the framework of the data engineering lifecycle Authors Joe Reis and Matt Housley walk you through the data engineering lifecycle and show you how to stitch together a variety of cloud technologies to serve the needs of downstream data consumers You will understand how to apply the concepts of data generation ingestion orchestration transformation storage

governance and deployment that are critical in any data environment regardless of the underlying technology This book will help you Assess data engineering problems using an end to end data framework of best practices Cut through marketing hype when choosing data technologies architecture and processes Use the data engineering lifecycle to design and build a robust architecture Incorporate data governance and security across the data engineering lifecycle from Publisher

*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

*The DataOps Revolution* Simon Trewin,2021-08-05 DataOps is a new way of delivering data and analytics that is proven to get results It enables IT and users to collaborate in the delivery of solutions that help organisations to embrace a data driven culture The DataOps Revolution Delivering the Data Driven Enterprise is a narrative about real world issues involved

in using DataOps to make data driven decisions in modern organisations The book is built around real delivery examples based on the author s own experience and lays out principles and a methodology for business success using DataOps Presenting practical design patterns and DataOps approaches the book shows how DataOps projects are run and presents the benefits of using DataOps to implement data solutions Best practices are introduced in this book through the telling of a story which relates how a lead manager must find a way through complexity to turn an organisation around This narrative vividly illustrates DataOps in action enabling readers to incorporate best practices into everyday projects The book tells the story of an embattled CIO who turns to a new and untested project manager charged with a wide remit to roll out DataOps techniques to an entire organisation It illustrates a different approach to addressing the challenges in bridging the gap between IT and the business The approach presented in this story lines up to the six IMPACT pillars of the DataOps model that Kinaesis [www.kinaesis.com](http://www.kinaesis.com) has been using through its consultants to deliver successful projects and turn around failing deliveries The pillars help to organise thinking and structure an approach to project delivery The pillars are broken down and translated into steps that can be applied to real world projects that can deliver satisfaction and fulfillment to customers and project team members

#### **Information Modelling and Knowledge Bases XXVIII** H. Jaakkola,B. Thalheim,Y.

Kiyoki,2017-01-03 Information modelling and knowledge bases are now essential not only to academics working in computer science but also wherever information technology is applied This book presents papers from the 26th International Conference on Information Modelling and Knowledge Bases formerly the European Japanese Conference EJC which took place in Tampere Finland in June 2016 The conference provides a platform to bring together researchers and practitioners working with information modelling and knowledge bases and the 33 accepted papers cover topics including conceptual modelling knowledge and information modelling and discovery linguistic modelling cross cultural communication and social computing environmental modelling and engineering and multimedia data modelling and systems All papers were improved and resubmitted for publication after the conference Covering state of the art research and practice the book will be of interest to all those whose work involves information modelling and knowledge bases

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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 Descriptiondbt 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     **Artificial**

**Intelligence with Microsoft Power BI** Jen Stirrup, Thomas J. Weinandy, 2024-03-28 Advance your Power BI skills by adding AI to your repertoire at a practice level With this practical book business oriented software engineers and developers will learn the terminologies practices and strategy necessary to successfully incorporate AI into your business intelligence estate Jen Stirrup CEO of AI and BI leadership consultancy Data Relish and Thomas Weinandy research economist at Upside show you how to use data already available to your organization Springboarding from the skills that you already possess this book adds AI to your organization s technical capability and expertise with Microsoft Power BI By using your conceptual knowledge of BI you ll learn how to choose the right model for your AI work and identify its value and validity Use Power BI to build a good data model for AI Demystify the AI terminology that you need to know Identify AI project roles responsibilities and teams for AI Use AI models including supervised machine learning techniques Develop and train models in Azure ML for consumption in Power BI Improve your business AI maturity level with Power BI Use the AI feedback loop to help you get started with the next project     *Engineering the Transformation of the Enterprise* Stephan Aier, Peter Rohner, Joachim Schelp, 2021-09-01 The topics in this book cover a broad range of research interests from business engineering and its application in corporate and business networking contexts to design science research as well as applied topics where those

research methods have been employed for modeling data warehousing information systems management enterprise architecture management management of large and complex projects and enterprise transformation The book is a Festschrift for Robert Winter in order to appreciate his work and to honor him as a personality with a high reputation in the information systems community To this end many professional colleagues or long time companions both from the Institute of Information Management at the University of St Gallen as well as from the international research community dedicated articles on topics related to Robert s research They reflect his ambition to uncompromisingly conduct high class research that fuels the research community and at the same time contributes to improved industrial practice The book is organized in three major parts Part I Business Engineering and Beyond focuses on the methodology strongly shaped by Robert in St Gallen with a focus on research being applied in corporate contexts Part II Design Science Research spans from reflections on the practice of design science research to perspectives on design science research methodologies and eventually up to considerations to teach design science research methodology Part III Applied Fields combines various applications of design science and related research methodologies with practical problems and future research topics     Advances in Conceptual Modeling

Sergio de Cesare,Ulrich Frank,2017-11-02 This book constitutes the refereed proceedings of five workshops and a symposium held at the 36th International Conference on Conceptual Modeling ER 2017 in Valencia Spain in November 2017 The 21 revised full papers were carefully reviewed and selected out of 47 submissions to the following events AHA 2017 3rd International Workshop on Modeling for Ambient Assistance and Healthy Ageing MoBiD 2017 6th International Workshop on Modeling and Management of Big Data MREBA 2017 4th International Workshop on Conceptual Modeling in Requirements and Business Analysis OntoCom 2017 5th International Workshop on Ontologies and Conceptual Modeling QMMQ 2017 4th Workshop on Quality of Models and Models of Quality

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