

Agile Data Warehouse Design

*Collaborative Dimensional Modeling,
from Whiteboard to Star Schema*

Lawrence Corr
with Jim Stagnitto



Agile Data Warehouse Design Collaborative Dimensional Modeling From Whiteboard To Star Schema

Serge Gershkovich



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Agile Data Warehouse Design Lawrence Corr, Jim Stagnitto, 2011-11 Agile Data Warehouse Design is a step by step guide for capturing data warehousing business intelligence DW BI requirements and turning them into high performance dimensional models in the most direct way by modelstorming data modeling brainstorming with BI stakeholders This book describes BEAM an agile approach to dimensional modeling for improving communication between data warehouse designers BI stakeholders and the whole DW BI development team BEAM provides tools and techniques that will encourage DW BI designers and developers to move away from their keyboards and entity relationship based tools and model interactively with their colleagues The result is everyone thinks dimensionally from the outset Developers understand how to efficiently implement dimensional modeling solutions Business stakeholders feel ownership of the data warehouse they have created and can already imagine how they will use it to answer their business questions Within this book you will learn Agile dimensional modeling using Business Event Analysis using data story themes not crow's feet to describe detail Storyboarding the data warehouse to discover conformed dimensions and plan iterative development Visual modeling sketching timelines charts and grids to model complex process measurement simply Agile design documentation enhancing star schemas with BEAM dimensional shorthand notation Solving difficult DW BI performance and usability problems with proven dimensional design patterns Lawrence Corr is a data warehouse designer and educator As Principal of DecisionOne Consulting he helps clients to review and simplify their data warehouse designs and advises vendors on visual data modeling techniques He regularly teaches agile dimensional modeling courses worldwide and has taught dimensional DW BI skills to thousands of students Jim Stagnitto is a data warehouse and master data management architect specializing in the healthcare financial services and information service industries He is the founder of the data warehousing and data mining consulting firm Llumino

Data Modeling with Snowflake Serge Gershkovich, 2023-05-31 Discover how Snowflake's unique objects and features can be used to leverage universal modeling techniques through real world examples and SQL recipes Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn core modeling techniques tied to practical examples using native Snowflake architecture Adopt a universal modeling language to communicate business value to functional teams Go beyond physical modeling with SQL recipes to transform and shape your Snowflake data Book Description The Snowflake Data Cloud is one of the fastest growing platforms for data warehousing and application workloads Snowflake's scalable cloud native architecture and expansive set of features and objects enables you to deliver data solutions quicker than ever before Yet we must ensure that these solutions are developed using recommended design patterns and accompanied by documentation that's easily accessible to everyone in the organization This book will help you get familiar with simple and practical data modeling frameworks that accelerate agile design and evolve with the project from concept to code These universal principles have helped guide database design for decades and this book pairs them with unique Snowflake native

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Conceptual Modeling Juan C. Trujillo, Karen C. Davis, Xiaoyong Du, Zhanhuai Li, Tok Wang Ling, Guoliang Li, Mong Li Lee, 2018-09-25 This book constitutes the refereed proceedings of the 37th International Conference on Conceptual Modeling ER 2018 held in Xi an China in October 2018 The 30 full and 13 short papers presented together with 3 keynotes were carefully reviewed and selected from 151 submissions This events covers a wide range of following topics Conceptual modeling studies ontological modeling semi structured data modeling process modeling and management spatio temporal modeling cloud based modeling schema and view modeling languages and models NoSQL modeling conceptual modeling for machine learning and reasoning applications of conceptual modeling

Big Data Analytics and Knowledge Discovery Ladjel Bellatreche, Sharma Chakravarthy, 2017-08-11 This book constitutes the refereed proceedings of the 19th International Conference on Big Data Analytics and Knowledge Discovery DaWaK 2017 held in Lyon France in August 2017 The 24 revised full papers and 11 short papers presented were carefully reviewed and selected from 97 submissions The papers are organized in the following topical sections new generation data warehouses design cloud and NoSQL databases advanced programming paradigms non functional requirements satisfaction machine learning social media and twitter analysis sentiment analysis and user influence knowledge discovery and data flow management and optimization

Beyond Databases, Architectures, and Structures Stanislaw Kozielski, Dariusz Mrozek, Pawel Kasprowski, Bożena Małysiak-Mrozek, Daniel Kostrzewa, 2014-04-18 This book constitutes the refereed proceedings of the 10th IEEE International Conference Beyond Databases Architectures and Structures BDAS 2014 held in Ustron Poland in May 2014 This book consists of 56 carefully revised selected papers that are assigned to 11 thematic groups query languages transactions and query optimization data warehousing and big data ontologies and semantic web computational intelligence and data mining

collective intelligence scheduling and parallel processing bioinformatics and biological data analysis image analysis and multimedia mining security of database systems spatial data analysis applications of database systems Web and XML in database systems

Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014 Aleksandar Marković, Slađana Barjaktarović Rakočević, 2014-06-05

Novel Approaches to Information Systems Design Prakash, Naveen, Prakash, Deepika, 2020-01-03 Though traditionally information systems have been centralized these systems are now distributed over the web This requires a re investigation into the way information systems are modeled and designed Because of this new function critical problems including security never fail systems and quality of service have begun to emerge Novel Approaches to Information Systems Design is an essential publication that explores the most recent cutting edge research in information systems and exposes the reader to emerging but relatively mature models and techniques in the area Highlighting a wide range of topics such as big data business intelligence and energy efficiency this publication is ideally designed for managers administrators system developers information system engineers researchers academicians and graduate level students seeking coverage on critical components of information systems

Advances in Conceptual Modeling Sebastian Link, Juan C. Trujillo, 2016-10-17 This book constitutes the refereed proceedings of seven workshops and a symposium held at the 35th International Conference on Conceptual Modeling ER 2016 in Gifu Japan The 19 revised full and 3 keynote papers were carefully reviewed and selected out of 52 submissions to the following events Conceptual Modeling for Ambient Assistance and Healthy Ageing AHA 2016 Modeling and Management of Big Data MoBiD 2016 Modeling and Reasoning for Business Intelligence MORE BI 2016 Conceptual Modeling in Requirements and Business Analysis MREBA 2016 Quality of Models and Models of Quality QMMQ 2016 and the Symposium on Conceptual Modeling Education SCME 2016 and Models and Modeling on Security and Privacy WM2SP 2016

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Advances in Enterprise Engineering XVII Monika Malinova Mandelburger, Sérgio Guerreiro, Cristine

Griffo, David Aveiro, Henderik A. Proper, Marianne Schnellmann, 2024-05-02 This book constitutes the refereed proceedings of the 13th Enterprise Design and Engineering Working Conference on Advances in Enterprise Engineering XVII EDEWC 2023 held in Vienna Austria during November 27 28 2023 Enterprise design and engineering aims to take an integrative and engineering oriented perspective to enterprise development management As such it considers enterprises as purposefully designed systems where all relevant aspects should be designed in coherence The new scope of EDEWC reflects the rapid increase in digitization of enterprises in the last decade This has resulted in a substantial change in the nature and structure of enterprises which was the main focus of EDEWC 2023 The 5 full papers and 2 short papers included in this book were carefully reviewed and selected from 15 submissions

The Data Warehouse Toolkit Ralph Kimball, Margy Ross, 2013-07-01 Updated new edition of Ralph Kimball's groundbreaking book on dimensional modeling for data warehousing and business intelligence The first edition of Ralph Kimball's The Data Warehouse Toolkit introduced the industry to dimensional modeling and now his books are considered the most authoritative guides in this space This new third edition is a complete library of updated dimensional modeling techniques the most comprehensive collection ever It covers new and enhanced star schema dimensional modeling patterns adds two new chapters on ETL techniques includes new and expanded business matrices for 12 case studies and more Authored by Ralph Kimball and Margy Ross known worldwide as educators consultants and influential thought leaders in data warehousing and business intelligence Begins with fundamental design recommendations and progresses through increasingly complex scenarios Presents unique modeling techniques for business applications such as inventory management procurement invoicing accounting customer relationship management big data analytics and more Draws real world case studies from a variety of industries including retail sales financial services telecommunications education health care insurance e commerce and more Design dimensional databases that are easy to understand and provide fast query response with The Data Warehouse Toolkit The Definitive Guide to Dimensional Modeling 3rd Edition

The Unified Star Schema Bill Inmon, Francesco Puppini, 2020-10 Master the most agile and resilient design for building analytics applications the Unified Star Schema USS approach The USS has many benefits over traditional dimensional modeling Witness the power of the USS as a single star schema that serves as a foundation for all present and future business requirements of your organization

Rapid Data Warehouse Design Lawrence Corr, Jim Stagnitto, 2010-05-13 An exciting new approach to dimensional data warehouse design invented by the author This how to guide shows you how a revolutionary new approach to dimensional modeling invented by the author can be used throughout the data warehouse analysis and design phases to improve communication between IT and business users and consequently produce better results Featuring proven techniques devised by the author this book introduces Business Event Analysis and Modeling BEAM a powerful yet simple technique for modeling directly with business users You'll learn how to run facilitated BEAM sessions with users to create consensus on data definitions and a sense of business

ownership of the data warehouse design Demonstrates how to use Business Event Analysis and Modeling BEAM to readily capture the 5W1H combinations that represent the unique business events of any organization Presents common reusable modeling techniques for handling the complexities of people and groups the who products and services the what geography the where for each dimension type Offers extensive detailed examples for translating each BEAM model into a dimensional star schema model The companion website will include all sample models document templates and SQL code examples These proven techniques will help you accomplish your end goal ensuring that the data warehouse design meet the real needs of users

Mastering Data Warehouse Design Claudia Imhoff, Nicholas Gallemmo, Jonathan G. Geiger, 2003 A cutting edge response to Ralph Kimball's challenge to the data warehouse community that answers some tough questions about the effectiveness of the relational approach to data warehousing Written by one of the best known exponents of the Bill Inmon approach to data warehousing Addresses head on the tough issues raised by Kimball and explains how to choose the best modeling technique for solving common data warehouse design problems Weighs the pros and cons of relational vs dimensional modeling techniques Focuses on tough modeling problems including creating and maintaining keys and modeling calendars hierarchies transactions and data quality

The Star Schema Handbook Christopher Adamson, 2009-10-02 The first comprehensive handbook on star schema design The Star Schema Handbook is a comprehensive guide to dimensional modeling covering both basic and advanced topics Organized around technical concepts rather than business examples this is the perfect resource for data warehouse designers or developers The book is architecture neutral providing full coverage of the best practices for the design of star schema and OLAP cubes in any environment You'll find numerous examples of designs drawn from real world situations The book covers schema capabilities ETL loading reporting and more The Star Schema Handbook is a complete reference for dimensional modeling and star schema design whether you're new to the field or are seeking advanced information to help you address specific design challenges The book explores best practices for star schema design and OLAP cubes it is architecture neutral providing guidance on best design practices for any environment Topics include schema capabilities ETL loading reporting and much more This comprehensive guide covers both basic and advanced topics making it the complete reference for all data warehouse designers

Modeling the Agile Data Warehouse with Data Vault Hans Hultgren, 2015-09-11 Data Modeling for Agile Data Warehouse using Data Vault Modeling Approach Includes Enterprise Data Warehouse Architecture This is a complete guide to the data vault data modeling approach The book also includes business and program considerations for the agile data warehousing and business intelligence program There are over 200 diagrams and figures concerning modeling core business concepts architecture business alignment semantics and modeling comparisons with 3NF and Dimensional modeling

Mastering Data Warehouse Aggregates Christopher Adamson, 2012-06-27 This is the first book to provide in depth coverage of star schema aggregates used in dimensional modeling from selection and design to loading and usage to

specific tasks and deliverables for implementation projects Covers the principles of aggregate schema design and the pros and cons of various types of commercial solutions for navigating and building aggregates Discusses how to include aggregates in data warehouse development projects that focus on incremental development iterative builds and early data loads

Star Schema The Complete Reference Christopher Adamson, 2010-07-22 The definitive guide to dimensional design for your data warehouse Learn the best practices of dimensional design Star Schema The Complete Reference offers in depth coverage of design principles and their underlying rationales Organized around design concepts and illustrated with detailed examples this is a step by step guidebook for beginners and a comprehensive resource for experts This all inclusive volume begins with dimensional design fundamentals and shows how they fit into diverse data warehouse architectures including those of W H Inmon and Ralph Kimball The book progresses through a series of advanced techniques that help you address real world complexity maximize performance and adapt to the requirements of BI and ETL software products You are furnished with design tasks and deliverables that can be incorporated into any project regardless of architecture or methodology Master the fundamentals of star schema design and slow change processing Identify situations that call for multiple stars or cubes Ensure compatibility across subject areas as your data warehouse grows Accommodate repeating attributes recursive hierarchies and poor data quality Support conflicting requirements for historic data Handle variation within a business process and correlation of disparate activities Boost performance using derived schemas and aggregates Learn when it s appropriate to adjust designs for BI and ETL tools

Data Warehouse Design: Modern Principles and Methodologies Matteo Golfarelli, Stefano Rizzi, 2009-03-03 Foreword by Mark Stephen LaRow Vice President of Products MicroStrategy A unique and authoritative book that blends recent research developments with industry level practices for researchers students and industry practitioners Il Yeol Song Professor College of Information Science and Technology Drexel University

The Data Warehouse Toolkit Ralph Kimball, Margy Ross, 2011-08-08 This old edition was published in 2002 The current and final edition of this book is The Data Warehouse Toolkit The Definitive Guide to Dimensional Modeling 3rd Edition which was published in 2013 under ISBN 9781118530801 The authors begin with fundamental design recommendations and gradually progress step by step through increasingly complex scenarios Clear cut guidelines for designing dimensional models are illustrated using real world data warehouse case studies drawn from a variety of business application areas and industries including Retail sales and e commerce Inventory management Procurement Order management Customer relationship management CRM Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts

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









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