

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

Bill Inmon, Francesco Puppini



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

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

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

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

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

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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 event 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

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

Handbook of Research on Big Data Storage and Visualization Techniques

Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programing systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

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

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 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 *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 **Higher Education Strategy and Planning** Tony Strike,2017-07-14 Higher Education

Strategy and Planning is an indispensable guide for academic leaders scholars strategic planners and postgraduate students particularly aimed at those who work in strategy and planning roles and leaders who need to plan and work with planners The book is produced with the support of HESPA the Higher Education Strategic Planners Association and draws together experts from across the sector Split into five parts it covers context and positioning integrated planning centrality coordination and connection analytical capacity and capability and insight and information **Data Management: a gentle introduction - 2nd edition** Bas van Gils,2025-09-18

html body data pb style EGG8YBP justify content flex start display flex flex direction column background position left top background size cover background repeat no repeat background attachment scroll The overall objective of this second edition is to reaffirm that data management is an exciting and valuable capability one that deserves dedicated time and effort Building on the foundation of the first edition this updated version introduces new chapters fresh insights and additional interviews with practitioners to reflect the evolving landscape of the field More specifically the book now aims to Provide an enriched introduction to data management combining core concepts with updated theory practical frameworks such as TOGAF ArchiMate and DMBOK and new real world examples drawn from recent assignments Offer guidance on building effective data management capabilities illustrated through a broader set of

use cases and enriched by new practitioner stories that highlight current challenges and solutions The book continues to serve busy professionals actively involved in managing data as well as Bachelor s and Master s students interested in the field It remains industry agnostic with relevance across sectors such as government finance telecommunications and more Intended roles include members of data governance offices or councils data owners data stewards enterprise and data architects process managers business analysts and IT analysts The structure remains clear and accessible divided into three main parts theory practice and closing remarks Chapters are concise and focused with a clear separation between main text and examples Readers familiar with a topic can easily skip ahead while newcomers will find a smooth and engaging learning path

Sports Analytics Benjamin C. Alamar, 2013-08-06 Benjamin C Alamar founded the first journal dedicated to sports statistics the Journal of Quantitative Analysis in Sports He developed and teaches a class on sports analytics for managers at the University of San Francisco and has published numerous cutting edge studies on strategy and player evaluation Today he cochairs the sports statistics section of the International Statistics Institute and consults with several professional teams and businesses in sports analytics There isn t a better representative of this emerging field to show diverse organizations how to implement analytics into their decision making strategies especially as analytic tools grow increasingly complex Alamar provides a clear easily digestible survey of the practice and a detailed understanding of analytics vast possibilities He explains how to evaluate different programs and put them to use Using concrete examples from professional sports teams and case studies demonstrating the use and value of analytics in the field Alamar designs a roadmap for managers general managers and other professionals as they build their own programs and teach their approach to others

Advances in Computers , 2019-01-08 Advances in Computers Volume 112 the latest volume in a series published since 1960 presents detailed coverage of innovations in computer hardware software theory design and applications Chapters in this updated volume include Mobile Application Quality Assurance Advances in Combinatorial Testing Advances in Applications of Object Constraint Language for Software Engineering Advances in Techniques for Test Prioritization Data Warehouse Testing Mutation Testing Advances An Analysis and Survey Event Based Concurrency Applications Abstractions and Analyses and A Taxonomy of Software Integrity Protection Techniques Provides in depth surveys and tutorials on new computer technology Covers well known authors and researchers in the field Presents extensive bibliographies with most chapters Includes volumes that are devoted to single themes or subfields of computer science

Business Intelligence & Big Data Hassan Badir, Fadila Bentayeb, Omar Boussaid, 2020-02-10 L entreposage de donn es et l analyse en ligne On Line Analytical Processing OLAP se sont impos s comme des outils fondamentaux de l informatique d cisionnelle Business Intelligence BI Avec l av nement des m gadonn es big data caract ris es par leur tr s grand volume leur v locit et leur vari t et des technologies et infrastructures mergentes NoSQL Cloud Hadoop ces outils d analyse et d aide la d cision sont confront s de nouveaux d fis scientifiques La conf rence francophone sur les entrep ts de donn es et l analyse en ligne EDA dans sa quatorzi

me dition vise cr er un espace de rencontres et d changes entre chercheurs industriels et utilisateurs int ress s par les avanc es dans le domaine de la BI et des big data Le pr sent recueil constitue les actes de la conf rence EDA 2018 qui s est d roul e Tanger les 4 5 et 6 octobre 2018 avec un programme comprenant vingt cinq pr sentations scientifiques avec deux conf rences invit es

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

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

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 **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

Whispering the Techniques of Language: An Emotional Journey through **Agile Data Warehouse Design Collaborative Dimensional Modeling From Whiteboard To Star Schema**

In a digitally-driven earth where monitors reign supreme and instant connection drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases often move unheard. However, located within the pages of **Agile Data Warehouse Design Collaborative Dimensional Modeling From Whiteboard To Star Schema** a interesting literary value pulsating with organic emotions, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, this charming opus encourages viewers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the very cloth of each and every word. Within the emotional depths of this emotional review, we will embark upon a sincere exploration of the book is key styles, dissect its fascinating writing fashion, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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Introduction

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