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Mastering Data Warehouse Aggregates

Solutions for
Star Schema
Performance

Christopher Adamson
with a foreword by Ralph Kimball



Mastering Data Warehouse Aggregates Solutions For Star Schema Performance

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Mastering Data Warehouse Aggregates Solutions For Star Schema Performance:

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 **Data**

Warehousing and Analytics David Taniar, Wenny Rahayu, 2022-02-04 This textbook covers all central activities of data warehousing and analytics including transformation preparation aggregation integration and analysis It discusses the full spectrum of the journey of data from operational transactional databases to data warehouses and data analytics as well as the role that data warehousing plays in the data processing lifecycle It also explains in detail how data warehouses may be used by data engines such as BI tools and analytics algorithms to produce reports dashboards patterns and other useful information and knowledge The book is divided into six parts ranging from the basics of data warehouse design Part I Star Schema Part II Snowflake and Bridge Tables Part III Advanced Dimensions and Part IV Multi Fact and Multi Input to more advanced data warehousing concepts Part V Data Warehousing and Evolution and data analytics Part VI OLAP BI and Analytics This textbook approaches data warehousing from the case study angle Each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty hence learning is incremental In addition every chapter has also a section on further readings which give pointers and references to research papers related to the chapter All these features make the book ideally suited for either introductory courses on data warehousing and data analytics or even for self studies by professionals The book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises *Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment* Josip Stjepandić, Georg Rock, Cees Bil, 2012-08-10 The CE Conference series is organized annually by the International Society for Productivity Enhancement ISPE and constitutes an important forum for international scientific exchange on concurrent and collaborative enterprise engineering These international conferences attract a significant number of researchers industrialists and students as well as government representatives who are interested in the recent advances in concurrent engineering research and applications Concurrent Engineering Approaches for Sustainable Product Development in a Multi Disciplinary Environment Proceedings of the 19th ISPE International Conference on Concurrent Engineering contains papers accepted peer reviewed and presented at the annual conference held at the University of Applied Sciences in Trier Germany from 3rd 7th of September 2012 This covers a wide range of cutting edge topics including Systems Engineering and Innovation Design for Sustainability Knowledge Engineering and Management Managing product variety Product Life Cycle Management and Service Engineering Value Engineering

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

The DAMA Guide to the Data Management Body of Knowledge (DAMA-DMBOK) Spanish Edition DAMA International, 2015-12-29 Escrito por m s de 120 profesionistas en la gesti n de datos la gu a DAMA de los fundamentos para la gesti n de datos DAMA DMBOK es la recopilaci n m s impresionante jam s realizada de principios y mejores pr cticas en la gesti n de datos Este libro proporciona a profesionales de IT ejecutivos trabajadores del conocimiento educadores e investigadores de gesti n de datos un m todo de manejo de datos para desarrollar su arquitectura de informaci n En comparaci n con los libros PMBOK o el BABOK el libro DAMA DMBOK proporciona informaci n sobre Gobierno de datos Gesti n de Arquitectura de Datos Desarrollo de datos Gesti n de Operaciones de base de datos Gesti n de la seguridad de datos Gesti n de datos maestros y de referencia Gesti n de almacenamiento de datos e inteligencia de negocios Gesti n de documentaci n y contenidos Gesti n de metadatos Gesti n de calidad de datos Desarrollo profesional Como introducci n oficial a la gesti n de datos los objetivos de la gu a DAMA DMBOK son Construir consensos para una visi n general aplicable a las funciones de gesti n de datos Proporcionar definiciones estandarizadas para funciones com nmente utilizadas en la gesti n de datos resultados roles y otras terminolog as Documentar principios guiados para la gesti n de datos Presentar una visi n neutral de buenas pr cticas com nmente aceptadas t cnicas y m todos ampliamente adoptados y alcances alternativos significantes Clarificar los alcances y l mites de la gesti n de datos Desempe arse como gu a de referencia para una mayor compresi n para el lector Editores Mark Mosley Editor de desarrollo Michel Brackett Editor de producci n Susan Early Asistente de editor y Deborah Henderson Patrocinador del proyecto Prologo por John Zachman Prefacio por John Schley presidente internacional de DAMA y Deborah Henderson Presidenta de fundaci n DAMA Vicepresidenta internacional de educaci n e investigaci n DAMA y Epilogo por Michel Brackett

Galardonado al Premio a la Trayectoria de DAMA Internacional El DMBOK fue traducido al español por Derly Almanza Cinthia Carolina Sanchez Osorio Karen Dawson Ramon Vasquez Juan Azcurra Juan Diego Lorenzo Fernando Giliberto Sergio Tornati y Pablo Cigliuti Prólogo por John Zachman El libro es una recopilación exhaustiva de todos los temas y casos posibles que merecen consideración para iniciar y ejecutar sus responsabilidades de gestión de datos en una empresa moderna Es impresionante en su integralidad No solo identifica las metas y los objetivos de todos los temas de gestión de datos y las responsabilidades sino también sugiere de manera natural los participantes en la organización y los resultados finales que se deben esperar La publicación comienza como una recopilación trascendente muy necesaria de artículos y hechos sustantivos acerca del poco entendimiento del tema de la gestión de datos organizada por algunas personas de la sección Chicago de DAMA Este material fue nuevo en su momento por la carencia de información relacionada a este tema Ha progresado hasta convertirse en un manual facultativo que merece un lugar en cualquier anaquele de gestión de datos Hay una gran cantidad de información para el principiante de datos pero también es de gran valor para el experto utilizándolo como una lista de comprobación y validación de sus conocimientos y responsabilidades para asegurar que nada se le ha olvidado Es impresionante su amplitud y exhaustividad La guía DAMA DMBOK merece un lugar en cada estantería de libros de profesionistas de gestión de datos y para un gerente general servir como guía para establecer expectativas y para asignar responsabilidades para la gestión y la práctica de lo que se ha convertido en el recurso más crítico de la empresa que ha progresado en la era de la información

DAMA-DMBOK: Guía Del Conocimiento Para La Gestión De Datos (Spanish Edition) DAMA International, La Guía del Conocimiento para la Gestión de Datos DAMA DMBOK2 presenta una visión exhaustiva de los desafíos complejidades y valor de la gestión eficaz de los datos Las organizaciones de hoy en día reconocen que la gestión de los datos es fundamental para su éxito Reconocen que los datos tienen valor y quieren aprovechar ese valor A medida que nuestra capacidad y deseo de crear y explotar datos ha aumentado también lo ha hecho la necesidad de prácticas de gestión de datos confiables La segunda edición de la Guía del Conocimiento para la Gestión de Datos de DAMA International actualiza y aumenta el exitoso DMBOK1 DMBOK2 un libro de referencia accesible y autorizado escrito por los principales pensadores en el campo y ampliamente revisado por los miembros de DAMA reúne materiales que describen exhaustivamente los desafíos de la gestión de datos y cómo cumplirlos mediante Definir un conjunto de principios rectores para la gestión de datos y describir cómo se pueden aplicar estos principios dentro de las áreas funcionales de gestión de datos Proporcionar un marco de referencia funcional para la implementación de prácticas de gestión de datos empresariales incluyendo prácticas métodos y técnicas ampliamente adoptadas funciones roles entregables y métricas Establecer un vocabulario común para los conceptos de gestión de datos y servir de base para las mejores prácticas para los profesionales de la gestión de datos DAMA DMBOK2 proporciona a los profesionales de la gestión de datos y de TI a ejecutivos trabajadores del conocimiento educadores e investigadores un marco para gestionar sus datos y madurar su infraestructura de información

basado en estos principios Los datos son un activo con propiedades nicas El valor de los datos puede y debe expresarse en t rminos econ micos Gestionar los datos significa gestionar la calidad de los datos Se necesitan metadatos para gestionar los datos Se necesita planificaci n para gestionar los datos La gesti n de datos es multifuncional y requiere una amplia gama de habilidades y experiencia La gesti n de datos requiere una perspectiva empresarial La gesti n de datos debe tener en cuenta una serie de perspectivas La gesti n de datos es la gesti n del ciclo de vida de los datos Los diferentes tipos de datos tienen diferentes requerimientos de ciclo de vida La gesti n de datos incluye la gesti n de los riesgos asociados a los datos Los requerimientos de gesti n de datos deben impulsar las decisiones sobre tecnolog a de la informaci n Una gesti n eficaz de los datos requiere un compromiso de liderazgo Los cap tulos incluyen Gesti n de Datos Manejo tico de los Datos Gobierno de Datos Arquitectura de Datos Modelado y Dise o de Datos Almacenamiento de Datos y Operaciones Seguridad de Datos Integraci n de Datos e Interoperabilidad Gesti n de Documentos y Contenidos Datos Maestros y de Referencia Data Warehousing e Inteligencia de Negocios Gesti n de Metadatos Calidad de Datos Big Data y Ciencia de Datos Evaluaci n de la Madurez de la Gesti n de Datos Organizaci n de la Gesti n de Datos y Expectativas de Roles Gesti n de Datos y Gesti n del Cambio Organizacional La estandarizaci n de las disciplinas de gesti n de datos ayudar a los profesionales de la gesti n de datos a desempe arse de forma m s eficaz y consistente Tambi n permitir a los l deres de la organizaci n reconocer el valor y las contribuciones de las actividades de gesti n de datos

Modellierung von Business-Intelligence-Systemen Michael Hahne,2014-07-10 Die Modellierung von Business Intelligence Systemen BI umfasst eine Vielzahl unterschiedlicher Facetten die im Kontext von Operational BI agile Warehousing Real Time und Self Service BI zu bewerten sind Dieses Buch beschreibt die Architektur und Gestaltung von unternehmensweiten analyseorientierten Informationssystemen insbesondere unter dem Aspekt zunehmend agiler Gesch ftsanforderungen und deren Unterst tzung durch BI Methoden Neben der Darstellung von Best Practices der Historisierung und der Data Mart Modellierung ist der Aufbau eines Enterprise Data Warehouse von zentraler Bedeutung Behandelt werden im Einzelnen Business Intelligence Architektur Mehrdimensionale Datenstrukturen Semantische mehrdimensionale Modellierung Bestandteile und Varianten des Star Schemas Historisierung und Zeitabh ngigkeit im Data Warehouse Faktenmodellierung Dimensionsmodellierung Core Data Warehouse Modellierung Dieses Buch ist ein Muss f r alle mit der Gestaltung und Nutzung von BI Systemen betrauten Architekten Analysten Entwickler und Projektleiter

Business Intelligence - Arbeits- und Übungsbuch Hans-Georg Kemper,Henning Baars,2009-03-05 Das Arbeits und bungsbuch Business Intelligence ist ein eigenst ndiges Werk und stellt eine ideale Erg nzung zum Lehrbuch Business Intelligence Grundlagen und praktische Anwendungen dar Es deckt s mtliche Facetten des Bereiches Business Intelligence ab Wertvoll sind das Glossar die praxisrelevanten Aufgabenstellungen und die detaillierten L sungsskizzen Das Buch ist sowohl f r individuelles Lernen als auch f r gruppenorientiertes Arbeiten in Teams geeignet und bietet selbstverst ndlich auch Dozenten wertvolle Hilfestellungen bei der Vorbereitung und Durchf hrung von Pr sentationen Vorlesungen und

bungen **The British National Bibliography** Arthur James Wells,2006 **American Book Publishing Record** ,2005

The Data Warehouse Toolkit Ralph Kimball,1996-02-16 one of the definitive books of our industry If you take the time to read only one professional book make it this book W H Inmon One of the most dramatic new developments in database design the dimensional data warehouse is a powerful database model that significantly enhances managers ability to quickly analyze large multidimensional data sets Written by the leading proponent of this revolutionary new approach this valuable book CD toolkit outfits you with all the nuts and bolts information you need to design build manage and use dimensional data warehouses for virtually any type of business application as well as software for querying dimensional data warehouses Employing many real life case studies of data warehouses Ralph Kimball provides clear cut guidelines on how to model data and design data warehouses to support advanced multidimensional decision support systems Beginning with the relatively simple example of a data warehouse for a grocery store he progresses step by step through an increasingly complex array of business applications in retail manufacturing banking insurance subscriptions and airline reservations By the end of the book you will have mastered the full range of powerful techniques for creating controlling and navigating dimensional business databases that are easy to understand and navigate On the CD ROM you ll find Software for querying dimensional data warehouses Working models of all the databases described in the book *Mastering Data Warehouse Design* Claudia Imhoff,Nicholas Galembo,Jonathan G. Geiger,2003-08-19 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

Star Schema The Complete Reference Christopher Adamson,2010-07-28 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

Star Schema: The Complete Ref. Adamson, 2010-08-19

About the Book This all inclusive volume begins with dimensional design fundamentals and shows how dimensional design fits 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

Christopher Adamson is a faculty member at The Data Warehousing Institute TDWI and an independent data warehousing consultant who has managed all phases of data warehouse implementation for clients that include Fortune 500 companies large and small businesses government agencies and data warehousing software vendors

Data Warehousing Source Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 38 Chapters Aggregate data warehouse Anchor Modeling Bill Inmon Bitemporal Modeling Business analytics Dashboard business Data extraction Data mart Data Vault Modeling Data warehouse appliance Data warehouse architectures Degenerate dimension Dimensional Fact Model Dimensional modeling Dimension data warehouse Dimension table DIRKS Document warehouse Early arriving fact Enterprise bus matrix Expense and Cost Recovery System ECRS Extract transform load Fact data warehouse Fact table Hub and spokes architecture Integration warehouse Log trigger Master data management Measure data warehouse Noetix OLAP cube Operational database Operational data store Operational system Ralph Kimball Reverse star schema Slowly changing dimension Snowflake schema Spreadmart Staging data The Kimball Lifecycle Time variance

Object-oriented Data Warehouse Design William A. Giovinazzo, 2000

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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

Building a Data Warehouse Vincent Rainardi,2008-03-11 Building a Data Warehouse With Examples in SQL Server describes how to build a data warehouse completely from scratch and shows practical examples on how to do it Author Vincent Rainardi also describes some practical issues he has experienced that developers are likely to encounter in their first data warehousing project along with solutions and advice The relational database management system RDBMS used in the examples is SQL Server the version will not be an issue as long as the user has SQL Server 2005 or later The book is organized as follows In the beginning of this book chapters 1 through 6 you learn how to build a data warehouse for example defining the architecture understanding the methodology gathering the requirements designing the data models and creating the databases Then in chapters 7 through 10 you learn how to populate the data warehouse for example extracting from source systems loading the data stores maintaining data quality and utilizing the metadata After you populate the data warehouse in chapters 11 through 15 you explore how to present data to users using reports and multidimensional databases and how to use the data in the data warehouse for business intelligence customer relationship management and other purposes Chapters 16 and 17 wrap up the book After you have built your data warehouse before it can be released to production you need to test it thoroughly After your application is in production you need to understand how to administer data warehouse operation

Data Warehouse Design Weiping Li,2000 [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 book delves into Mastering Data Warehouse Aggregates Solutions For Star Schema Performance. Mastering Data Warehouse Aggregates Solutions For Star Schema Performance is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mastering Data Warehouse Aggregates Solutions For Star Schema Performance, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Mastering Data Warehouse Aggregates Solutions For Star Schema Performance
 - Chapter 3: Mastering Data Warehouse Aggregates Solutions For Star Schema Performance in Everyday Life
 - Chapter 4: Mastering Data Warehouse Aggregates Solutions For Star Schema Performance in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Mastering Data Warehouse Aggregates Solutions For Star Schema Performance. The first chapter will explore what Mastering Data Warehouse Aggregates Solutions For Star Schema Performance is, why Mastering Data Warehouse Aggregates Solutions For Star Schema Performance is vital, and how to effectively learn about Mastering Data Warehouse Aggregates Solutions For Star Schema Performance.
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 5. In chapter 4, the author will scrutinize the relevance of Mastering Data Warehouse Aggregates Solutions For Star Schema Performance in specific contexts. This chapter will explore how Mastering Data Warehouse Aggregates Solutions For Star Schema Performance is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Mastering Data Warehouse Aggregates Solutions For Star Schema Performance. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mastering Data Warehouse Aggregates Solutions For Star Schema Performance.

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