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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

Christopher Adamson

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 espa ol por Derly Almanza Cinthia Carolina Sanchez Osorio Karen Dawson Ram n Vasquez Juan Azcurra Juan Diego Lorenzo Fernado Giliberto Sergio Tornati y Pablo Cigliuti Pr logo por John Zachman El libro es una recopilaci n exhaustiva de todos los temas y casos posibles que merecen consideraci n para iniciar y ejecutar u responsabilidades de gesti n de datos en una empresa moderna Es impresionante en su integralidad No s lo identifica las metas y los objetivos de todos los temas de gesti n de datos y las responsabilidades sino tambi n sugiere de manera natural los participantes en la organizaci n y los resultados finales que se deben esperar La publicaci n comenz como una recopilaci n trascendente muy necesaria de art culos y hechos sustantivos acerca del poco entendimiento del tema de la gesti n de datos organizada por algunas personas de la secci n Chicago de DAMA Este material fue nico en su momento por la carencia de informaci n relacionada a este tema Ha progresado hasta convertirse en un manual facultativo que merece un lugar en cualquier anaquel de gesti n de datos Hay una gran cantidad de informaci n para el principiante de datos pero tambi n es de gran valor para el experto utiliz ndolo como una lista de comprobaci n y validaci n de sus conocimientos y responsabilidades para asegurar que nada se le ha olvidado Es impresionante su amplitud y exhaustividad La gu a DAMA DMBOK merece un lugar en cada estanter a de libros de profesionistas de gesti n de datos y para un gerente general servir como gu a para establecer expectativas y para asignar responsabilidades para la gesti n y la pr ctica de lo que se ha convertido en el recurso m s cr tico de la empresa que ha progresado en la era de la informaci n DATOS **DAMA-DMBOK: Guía Del Conocimiento Para La Gestión De Datos (Spanish Edition)** DAMA International, La Gu a del Conocimiento para la Gesti n de Datos DAMA DMBOK2 presenta una visi n exhaustiva de los desaf os complejidades y valor de la gesti n eficaz de los datos Las organizaciones de hoy en d a reconocen que la gesti n de los datos es fundamental para su xito 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 tambi n lo ha hecho la necesidad de pr cticas de gesti n de datos confiables La segunda edici n de la Gu a del Conocimiento para la Gesti n 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 re ne materiales que describen exhaustivamente los desaf os de la gesti n de datos y c mo cumplirlos mediante Definir un conjunto de principios rectores para la gesti n de datos y describir c mo se pueden aplicar estos principios dentro de las reas funcionales de gesti n de datos Proporcionar un marco de referencia funcional para la implementaci n de pr cticas de gesti n de datos empresariales incluyendo pr cticas m todos y t cnicas ampliamente adoptadas funciones roles entregables y m tricas Establecer un vocabulario com n para los conceptos de gesti n de datos y servir de base para las mejores pr cticas para los profesionales de la gesti n de datos DAMA DMBOK2 proporciona a los profesionales de la gesti n de datos y de TI a ejecutivos trabajadores del conocimiento educadores e investigadores un marco para gestionar sus datos y madurar su infraestructura de informaci n

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 Galemmo,Jonathan G. Geiger,2003-08-19 A cutting edge response to Ralph Kimball s challenge to thedata warehouse community that answers some tough questions aboutthe effectiveness of the relational approach to datawarehousing Written by one of the best known exponents of the Bill Inmonapproach to data warehousing Addresses head on the tough issues raised by Kimball andexplains how to choose the best modeling technique for solvingcommon data warehouse design problems Weighs the pros and cons of relational vs dimensional modelingtechniques Focuses on tough modeling problems including creating andmaintaining 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 toolsChristopher 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 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE *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

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