



Figure 1.2 A star schema for the orders process.

Dimensions provide all context for facts. They are used to filter data for reports, drive master detail relationships, determine how facts will be aggregated, and appear with facts on reports. A rich set of descriptive dimensional attributes provides for powerful and informative reporting. Schema designers therefore focus a significant amount of time and energy identifying useful dimensional attributes. Columns whose instance values are codes, such as

Mastering Data Warehouse Aggregates Maximizing Star Schema Performance

**Soumendra Mohanty, Madhu
Jagadeesh, Harsha Srivatsa**



Mastering Data Warehouse Aggregates Maximizing 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 **Oracle**

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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 *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

Mastering Data Warehouse Design Claudia Imhoff, Nicholas Galletta, Jonathan G. Geiger, 2003-08-08 Since its groundbreaking inception the approach to understanding data warehousing has been split into two mindsets Ralph Kimball who pioneered the use of dimensional modeling techniques for building the data warehouse and Bill Inmon who introduced the Corporate Information Factory and leads those who believe in using relational modeling techniques for the data warehouse Mastering Data Warehouse Design successfully merges Inmon's data warehouse design philosophies with Kimball's data mart design philosophies to provide you with a compelling and complete overview of exactly what is involved in designing and building a sustainable and extensible data warehouse

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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 *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 **Fundamentals of Data Warehouses**

Matthias Jarke,Maurizio Lenzerini,Yannis Vassiliou,Panos Vassiliadis,2013-03-09 Data warehouses have captured the attention of practitioners and researchers alike But the design and optimization of data warehouses remains an art rather than a science This book presents the first comparative review of the state of the art and best current practice of data warehouses It covers source and data integration multidimensional aggregation query optimization update propagation metadata management quality assessment and design optimization Also based on results of the European Data Warehouse Quality project it offers a conceptual framework by which the architecture and quality of data warehouse efforts can be assessed and improved using enriched metadata management combined with advanced techniques from databases business modeling and artificial intelligence For researchers and database professionals in academia and industry the book offers an excellent introduction to the issues of quality and metadata usage in the context of data warehouses 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

Big Data Imperatives Soumendra Mohanty, Madhu Jagadeesh, Harsha Srivatsa, 2013-06-24 Big Data Imperatives focuses on resolving the key questions on everyone's mind Which data matters Do you have enough data volume to justify the usage How you want to process this amount of data How long do you really need to keep it active for your analysis marketing and BI applications Big data is emerging from the realm of one off projects to mainstream business adoption however the real value of big data is not in the overwhelming size of it but more in its effective use Big Data Imperatives describes the complementary nature of traditional data warehouses and big data analytics platforms and how they feed each other This book aims to bring the big data and analytics realms together with a greater focus on architectures that leverage the scale and power of big data and the ability to integrate and apply analytics principles to data which earlier was not accessible This book can also be used as a handbook for practitioners helping them on methodology technical architecture analytics techniques and best practices At the same time this book intends to hold the interest of those new to big data and analytics by giving them a deep insight into the realm of big data

Data Mapping for Data Warehouse Design Qamar Shahbaz, 2015-12-08 Data mapping in a data warehouse is the process of creating a link between two distinct data models source and target tables attributes Data mapping is required at many stages of DW life cycle to help save processor overhead every stage has its own unique requirements and challenges Therefore many data warehouse professionals want to learn data mapping in order to move from an ETL extract transform and load data between databases developer to a data modeler role Data Mapping for Data Warehouse Design provides basic and advanced knowledge about business intelligence and data warehouse concepts including real life scenarios that apply the standard techniques to projects across various domains After reading this book readers will understand the importance of data mapping across the data warehouse life cycle Covers all stages of data warehousing and the role of data mapping in each Includes a data mapping strategy and techniques that can be applied to many situations Based on the author's years of real world experience designing solutions

Building a Better Data Warehouse Don Meyer, Casey Cannon, 1998 This book cuts through the hype and theory about data

warehousing and gets down to the basics of walking every member of the team through the design and implementation of a data warehouse Beyond how to do it this book is an implementation methodology that helps project teams identify who will be doing what and what tools each member will need **Data Warehouse** Joyce Bischoff,Ted Alexander,1997 A practical handbook for the Data Warehouse that is designed to prepare people to progress toward providing any data anywhere anytime Data Warehouse Practical Advice from the Experts will help technical managers project managers and members of data warehouse project teams in all aspects of planning designing developing implementing and administering a data warehouse It is a practical book based on real world experiences in building hundreds of data warehouses since each chapter is written by an internationally recognized authority in that particular field An essential handbook for Technical Managers Project Managers Technical Personnel Data Warehouse Project Teams and end users who want to provide access to the wealth of corporate data that has remained unavailable to those who need it Building Big Data Applications Krish Krishnan,2019-11-15 Building Big Data Applications helps data managers and their organizations make the most of unstructured data with an existing data warehouse It provides readers with what they need to know to make sense of how Big Data fits into the world of Data Warehousing Readers will learn about infrastructure options and integration and come away with a solid understanding on how to leverage various architectures for integration The book includes a wide range of use cases that will help data managers visualize reference architectures in the context of specific industries healthcare big oil transportation software etc Explores various ways to leverage Big Data by effectively integrating it into the data warehouse Includes real world case studies which clearly demonstrate Big Data technologies Provides insights on how to optimize current data warehouse infrastructure and integrate newer infrastructure matching data processing workloads and requirements

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