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The  
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# Star Schema

- Covers dimensional design for beginners and experts
- Best practices, underlying rationale, and real-world examples
- Architecture-neutral techniques suitable for any data warehouse

**Christopher Adamson**

# Star Schema The Complete Reference

**Jeffrey Shapiro**



## **Star Schema The Complete Reference:**

**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 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 is 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

**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 will 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 are 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

**Tableau 10 Complete Reference** Joshua N. Milligan, Tristan Guillevin, 2018-12-24 Explore and understand data with the powerful data visualization techniques of Tableau and then communicate insights in powerful ways Key Features Apply best practices in data visualization and chart types exploration Explore the latest version of Tableau Desktop with hands on examples Understand the fundamentals of Tableau storytelling Book Description Graphical presentation of data enables us to easily understand complex data sets Tableau 10 Complete Reference provides easy to follow recipes with several use cases and real world business scenarios to get you up and running with Tableau 10 This Learning Path begins with the history of data visualization and its importance in today's businesses You will also be introduced to Tableau how to connect clean and analyze data in this visual analytics software Then you will learn how to apply what you've learned by creating some simple calculations in Tableau and using Table Calculations to help drive greater analysis from your data Next you will explore different advanced chart types in Tableau These chart types require you to have some understanding of the Tableau interface and understand basic calculations You will study in detail all dashboard techniques and best practices A number of recipes specifically for geospatial visualization

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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

*Data Modeling with Microsoft Power BI* Markus Ehrenmueller-Jensen, 2024-06-10 Data modeling is the single most overlooked feature in Power BI Desktop yet it's what sets Power BI apart from other tools on the market This practical book serves as your fast forward button for data modeling with Power BI Analysis Services tabular and SQL databases It serves as a starting point for data modeling as well as a handy refresher Author Markus Ehrenmueller-Jensen founder of Savory Data shows you the basic concepts of Power BI's semantic model with hands on examples in DAX Power Query and T SQL If you're looking to build a data warehouse layer chapters with T SQL examples will get you started You'll begin with simple steps and gradually solve more complex problems

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*Microsoft Power BI Complete Reference* Devin Knight, Brian Knight, Mitchell Pearson, Manuel Quintana, Brett Powell, 2018-12-21 Design develop and master efficient Power BI solutions for impactful business insights Key Features Get to grips with the fundamentals of Microsoft Power BI Combine data from multiple sources create visuals and publish reports across platforms Understand Power BI concepts with real world use cases Book Description Microsoft Power BI Complete Reference Guide gets you started with business intelligence by showing you how to install the Power BI toolset design effective data models and build basic dashboards and visualizations that make your data come to life In this Learning Path you will learn to create powerful interactive reports by visualizing your data and learn visualization styles tips and tricks to bring your data to life You will be able to administer your organization s Power BI environment to create and share dashboards You will also be able to streamline deployment by implementing security and regular data refreshes Next you will delve deeper into the nuances of Power BI and handling projects You will get acquainted with planning a Power BI project development and distribution of content and deployment You will learn to connect and extract data from various sources to create robust datasets reports and dashboards Additionally you will learn how to format reports and apply custom visuals animation and analytics to further refine your data By the end of this Learning Path you will learn to implement the various Power BI tools such as on premises gateway together along with staging and securely distributing content via apps This Learning Path includes content from the following Packt products Microsoft Power BI Quick Start Guide by Devin Knight et al Mastering Microsoft Power BI by Brett Powell What you will learn Connect to data sources using both import and DirectQuery options Leverage built in and custom visuals to design effective reports Administer a Power BI cloud tenant for your organization Deploy your Power BI Desktop files into the Power BI Report Server Build efficient data retrieval and transformation processes Who this book is for Microsoft Power BI Complete Reference Guide is for those who want to learn and use the Power BI features to extract maximum information and make intelligent decisions that boost their business If you have a basic understanding of BI concepts and want to learn how to apply them using Microsoft Power BI then Learning Path is for you It consists of real world examples on Power BI and goes deep into the technical issues covers additional protocols and much more

**SQL The Complete Reference, 3rd Edition** James R. Groff, Paul N. Weinberg, Andy Oppel, 2008-10-01 The Definitive Guide to SQL Get comprehensive coverage of every aspect of SQL from three leading industry experts Revised with coverage of the latest RDBMS software versions this one stop guide explains how to build populate and administer high performance databases and develop robust SQL based applications SQL The Complete

Reference Third Edition shows you how to work with SQL commands and statements set up relational databases load and modify database objects perform powerful queries tune performance and implement reliable security policies Learn how to employ DDL statements and APIs integrate XML and Java scripts use SQL objects build web servers handle remote access and perform distributed transactions Techniques for managing in memory stream and embedded databases that run on today s mobile handheld and wireless devices are included in this in depth volume Build SQL based relational databases and applications Create load and modify database objects using SQL Construct and execute simple multitable and summary queries Implement security measures with authentication privileges roles and views Handle database optimization backup recovery and replication Work with stored procedures functions extensions triggers and objects Extend functionality using APIs dynamic SQL and embedded SQL Explore advanced topics such as DBMS transactions locking mechanisms materialized views and two phase commit protocol Understand the latest market trends and the future of SQL

**BusinessObjects XI (Release 2): The Complete Reference** Cindi Howson,2005-09-05 This book is a must read for anyone deploying BusinessObjects It covers everything from planning your upgrade to the latest release to best practices in universe design and powerful report creation that maximizes business insight This book covers the most frequently used features for the full BI suite in one comprehensive book There s in depth coverage of Designer security via the Central Management Console InfoView Web Intelligence and Desktop Intelligence It goes beyond step by step instructions to cover how and why in a business context Transition notes are interspersed for version 5 and 6 customers to understand the biggest changes in XI Release 2 If you drive BI requirements in your company or are a data warehouse program manager Business Objects administrator report author or consumer this book is for you

**SAP BusinessObjects BI 4.0 The Complete Reference 3/E** Cindi Howson,Elizabeth Newbould,2012-10-22 The definitive reference for building actionable business intelligence completely revised for SAP BusinessObjects BI 4 0 Unleash the full potential of business intelligence with fact based decisions aligned to business goals using reports and dashboards that lead from insight to action SAP BusinessObjects BI 4 0 The Complete Reference offers completely updated coverage of the latest BI platform Find out how to work with the new Information Design Tool to create universes that access multiple data sources and SAP BW See how to translate complex business questions into highly efficient Web Intelligence queries and publish your results to the BI Launchpad Learn how to create dashboards from data sourced through a universe or spreadsheet The most important concepts for universe designers report and dashboard authors and business analysts are fully explained and illustrated by screenshots diagrams and step by step instructions Establish and evolve BI goals Maximize your BI investments by offering the right module to the right user Create robust universes with the Information Design Tool leveraging multiple data sources derived tables aggregate awareness and parameters Develop a security plan that is scalable and flexible Design Web Intelligence reports from basic to advanced Create sophisticated calculations and advanced formatting to highlight critical business trends Build powerful

dashboards to embed in PowerPoint or the BI Launchpad Use Explorer to visually navigate large data sets and uncover patterns *Business Objects: The Complete Reference* Cindi Howson,2003-06-05 If your objective in business intelligence reporting is Business Objects success this is the resource for you Gives a thorough run down of the software plus coverage of Web intelligence complex queries multidimensional analysis and more Author Cindi Howson has plenty of hands on experience with the product Microsoft SQL Server 2014 Query Tuning & Optimization Benjamin Nevarez,2014-10-10 Optimize Microsoft SQL Server 2014 queries and applications Microsoft SQL Server 2014 Query Tuning Optimization is filled with ready to use techniques for creating high performance queries and applications The book describes the inner workings of the query processor so you can write better queries and provide the query processor with the quality information it needs to produce efficient execution plans You ll also get tips for troubleshooting underperforming queries In Memory OLTP Hekaton a key new feature of SQL Server 2014 is fully covered in this practical guide Understand how the query optimizer works Troubleshoot queries using extended events SQL trace dynamic management views DMVs the data collector and other tools Work with query operators for data access joins aggregations parallelism and updates Speed up queries and dramatically improve application performance by creating the right indexes Understand statistics and how to detect and fix cardinality estimation errors Maximize OLTP query performance using In Memory OLTP Hekaton features including memory optimized tables and natively compiled stored procedures Monitor and promote plan caching and reuse to improve application performance Improve the performance of data warehouse queries using columnstore indexes Handle query processor limitations with hints and other methods SQL Server 2000 Jeffrey R. Shapiro,2000 This reference empowers beginning to advanced SQL Server DBAs and developers with clear tips and great techniques to more effectively design databases maintain their peak efficiency and simplify long term administration Covers basic to advanced topics important throughout the enterprise 10 illustrations The Indian National Bibliography Bellary Shamanna Kesavan,2011 **Indian National Bibliography** B. S. Kesavan,2011 Microsoft SQL Server 2005: The Complete Reference Jeffrey Shapiro,2006-12-08 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product SQL Server 2005 is Microsoft s next generation data management and analysis software designed to deliver increased scalability availability and security to enterprise data and analytical applications while making them easier to create deploy and manage Filled with practical solutions and real world examples this resource includes full details on Enterprise data management capabilities including security and clustering Powerful developer tools T SQL NET CLR XML ADO NET 2 0 Business Intelligence features such as Integration Services data warehousing and reports **Microsoft SQL Server 2000 Reference Library: Analysis services** ,2001 **Electronic Design Automation Frameworks** Franz J. Rammig,Flavio Wagner,1995-08-31 Design frameworks have become an important infrastructure for building complex design systems Electronic Design Automation Frameworks

presents a state of the art review of the latest research results covering this topic results which are also of value for other design frameworks The book contains the selected proceedings of the Fourth International Working Conference on Electronic Design Frameworks organized by the International Federation for Information Processing and held in Gramado Brazil in November 1994

**Microsoft SQL Server 2012 Bible** Adam Jorgensen, Jorge Segarra, Patrick LeBlanc, Jose Chinchilla, Aaron Nelson, 2012-08-28 Harness the powerful new SQL Server 2012 Microsoft SQL Server 2012 is the most significant update to this product since 2005 and it may change how database administrators and developers perform many aspects of their jobs If you re a database administrator or developer Microsoft SQL Server 2012 Bible teaches you everything you need to take full advantage of this major release This detailed guide not only covers all the new features of SQL Server 2012 it also shows you step by step how to develop top notch SQL Server databases and new data connections and keep your databases performing at peak The book is crammed with specific examples sample code and a host of tips workarounds and best practices In addition downloadable code is available from the book s companion web site which you can use to jumpstart your own projects Serves as an authoritative guide to Microsoft s SQL Server 2012 for database administrators and developers Covers all the software s new features and capabilities including SQL Azure for cloud computing enhancements to client connectivity and new functionality that ensures high availability of mission critical applications Explains major new changes to the SQL Server Business Intelligence tools such as Integration Reporting and Analysis Services Demonstrates tasks both graphically and in SQL code to enhance your learning Provides source code from the companion web site which you can use as a basis for your own projects Explores tips smart workarounds and best practices to help you on the job Get thoroughly up to speed on SQL Server 2012 with Microsoft SQL Server 2012 Bible

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