The Data Warehouse

# Lifecycle Toolkit

Expert Methods for Designing, Developing and Deploying Data Warthouses



# RALPH KIMBALL

Laura Reeves Margy Ross Warren Thornthwaite

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The Data Warehouse Lifecycle Toolkit Ralph Kimball, Margy Ross, Warren Thornthwaite, Joy Mundy, Bob Becker, 2011-03-08 A thorough update to the industry standard for designing developing and deploying data warehouse and business intelligence systems The world of data warehousing has changed remarkably since the first edition of The Data Warehouse Lifecycle Toolkit was published in 1998 In that time the data warehouse industry has reached full maturity and acceptance hardware and software have made staggering advances and the techniques promoted in the premiere edition of this book have been adopted by nearly all data warehouse vendors and practitioners In addition the term business intelligence emerged to reflect the mission of the data warehouse wrangling the data out of source systems cleaning it and delivering it to add value to the business Ralph Kimball and his colleagues have refined the original set of Lifecycle methods and techniques based on their consulting and training experience The authors understand first hand that a data warehousing business intelligence DW BI system needs to change as fast as its surrounding organization evolves To that end they walk you through the detailed steps of designing developing and deploying a DW BI system You ll learn to create adaptable systems that deliver data and analyses to business users so they can make better business decisions The Microsoft Data Warehouse Toolkit Joy Mundy, Warren Thornthwaite, 2011-03-08 Best practices and invaluable advice from world renowned data warehouse experts In this book leading data warehouse experts from the Kimball Group share best practices for using the upcoming Business Intelligence release of SQL Server referred to as SQL Server 2008 R2 In this new edition the authors explain how SQL Server 2008 R2 provides a collection of powerful new tools that extend the power of its BI toolset to Excel and SharePoint users and they show how to use SQL Server to build a successful data warehouse that supports the business intelligence requirements that are common to most organizations Covering the complete suite of data warehousing and BI tools that are part of SQL Server 2008 R2 as well as Microsoft Office the authors walk you through a full project lifecycle including design development deployment and maintenance Features more than 50 percent new and revised material that covers the rich new feature set of the SQL Server 2008 R2 release as well as the Office 2010 release Includes brand new content that focuses on PowerPivot for Excel and SharePoint Master Data Services and discusses updated capabilities of SQL Server Analysis Integration and Reporting Services Shares detailed case examples that clearly illustrate how to best apply the techniques described in the book The accompanying Web site contains all code samples as well as the sample database used throughout the case studies The Microsoft Data Warehouse Toolkit Second Edition provides you with the knowledge of how and when to use BI tools such as Analysis Services and Integration Services to accomplish your most essential data warehousing tasks Multidimensional Databases and Data Warehousing Christian S. Jensen, Torben Bach Pedersen, Christian Thomsen, 2010 The present book s subject is multidimensional data models and data modeling concepts as they are applied in real data warehouses The book aims to present the most important concepts within this subject in a

precise and understandable manner The book s coverage of fundamental concepts includes data cubes and their elements such as dimensions facts and measures and their representation in a relational setting it includes architecture related concepts and it includes the querying of multidimensional databases The book also covers advanced multidimensional concepts that are considered to be particularly important This coverage includes advanced dimension related concepts such as slowly changing dimensions degenerate and junk dimensions outriggers parent child hierarchies and unbalanced non covering and non strict hierarchies The book offers a principled overview of key implementation techniques that are particularly important to multidimensional databases including materialized views bitmap indices join indices and star join processing The book ends with a chapter that presents the literature on which the book is based and offers further readings for those readers who wish to engage in more in depth study of specific aspects of the book's subject Table of Contents Introduction Fundamental Concepts Advanced Concepts Implementation Issues Further Readings 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 guery response You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts Kimball's Data Warehouse Toolkit Classics, 3 Volume Set Ralph Kimball, Margy Ross, Warren Thornthwaite, Joy Mundy, Bob Becker, Joe Caserta, 2014-02-24 Three books by the bestselling authors on Data Warehousing The most authoritative guides from the inventor of the technique all for a value price The Data Warehouse Toolkit 3rd Edition 9781118530801 Ralph Kimball invented a data warehousing technique called dimensional modeling and popularized it in his first Wiley book The Data Warehouse Toolkit Since this book was first published in 1996 dimensional modeling has become the most widely accepted technique for data warehouse design Over the past 10 years Kimball has improved on his earlier techniques and created many new ones In this 3rd edition he will provide a comprehensive collection of all of these techniques from basic to advanced The Data Warehouse Lifecycle Toolkit 2nd Edition 9780470149775 Complete coverage of best practices from data warehouse project inception through on going program management Updates industry best practices to be in sync with current recommendations of Kimball Group Streamlines the lifecycle methodology to be more efficient and user friendly The

Data Warehouse ETL Toolkit 9780764567575 shows data warehouse developers how to effectively manage the ETL Extract Transform Load phase of the data warehouse development lifecycle The authors show developers the best methods for extracting data from scattered sources throughout the enterprise removing obsolete redundant and inaccurate data transforming the remaining data into correctly formatted data structures and then physically loading them into the data warehouse This book provides complete coverage of proven time saving ETL techniques It begins with a quick overview of ETL fundamentals and the role of the ETL development team It then quickly moves into an overview of the ETL data structures both relational and dimensional The authors show how to build useful dimensional structures providing practical examples of beginning through advanced techniques

The Data Warehouse Lifecycle Toolkit Ralph Kimball, 2008

The Data Warehouse Lifecycle Toolkit Ralph Kimball, 1998-08-27 A comprehensive thoughtful and detailed book that will be of inestimable value to anyone struggling with the complex details of designing building and maintaining an enterprise wide decision support system Highly recommended Robert S Craig Vice President Application Architectures Hurwitz Group Inc In his bestselling book The Data Warehouse Toolkit Ralph Kimball showed you how to use dimensional modeling to design effective and usable data warehouses Now he carries these techniques to the larger issues of delivering complete data marts and data warehouses Drawing upon their experiences with numerous data warehouse implementations he and his coauthors show you all the practical details involved in planning designing developing deploying and growing data warehouses Important topics include The Business Dimensional Lifecycle TM approach to data warehouse project planning and management Techniques for gathering requirements more effectively and efficiently Advanced dimensional modeling techniques to capture the most complex business rules The Data Warehouse Bus Architecture and other approaches for integrating data marts into super flexible data warehouses A framework for creating your technical architecture Techniques for minimizing the risks involved with data staging Aggregations and other effective ways to boost data warehouse performance Cutting edge Internet based data warehouse security techniques The CD ROM supplies you with Complete data warehouse project plan tasks and responsibilities A set of sample models that demonstrate the Bus Architecture Blank versions of the templates and tools described in the book Checklists to use at key points in the project Beginning DB2 Grant Allen, 2008-11-20 IBM s DB2 Express Edition is one of the most capable of the free database platforms available in today's marketplace In Beginning DB2 author Grant Allen gets you started using DB2 Express Edition for web sites desktop applications and more The author covers the basics of DB2 for developers and database administrators shows you how to manage data in both XML and relational form and includes numerous code examples so that you are never in doubt as to how things work In this book you ll find A friendly introduction to DB2 Express Edition an industrial strength relational database from IBM Dozens of examples so that you are never in doubt as to how things work Coverage of important language interfaces such as from PHP Ruby C Python and more The book is aimed at developers who want a robust database to back

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today Green IT Engineering: Social, Business and Industrial Applications Vyacheslav Kharchenko, Yuriy Kondratenko, Janusz Kacprzyk, 2018-09-29 This book describes the implementation of green IT in various human and industrial domains Consisting of four sections Development and Optimization of Green IT Modelling and Experiments with Green IT Systems Industry and Transport Green IT Systems Social Educational and Business Aspects of Green IT it presents results in two areas the green components networks cloud and IoT systems and infrastructures and the industry business social and education domains It discusses hot topics such as programmable embedded and mobile systems sustainable software and data centers Internet servicing and cyber social computing assurance cases and lightweight cryptography in context of green IT Intended for university students lecturers and researchers who are interested in power saving and sustainable computing the book also appeals to engineers and managers of companies that develop and implement energy Kimball's Data Warehouse Toolkit Classics Ralph Kimball, Margy Ross, Bob Becker, Jov efficient IT applications Mundy, Warren Thornthwaite, 2009-04-06 Cowritten by Ralph Kimball the world's leading data warehousing authority Delivers real world solutions for the most time and labor intensive portion of data warehousing data staging or the extract transform load ETL process Delineates best practices for extracting data from scattered sources removing redundant and inaccurate data transforming the remaining data into correctly formatted data structures and then loading the end product into the data warehouse Offers proven time saving ETL techniques comprehensive guidance on building dimensional structures and crucial advice on ensuring data quality This book is also available as part of the Kimball s Data Warehouse Toolkit Classics Box Set ISBN 9780470479575 with the following 3 books The Data Warehouse Toolkit 2nd Edition 9780471200246 The Data Warehouse Lifecycle Toolkit 2nd Edition 9780470149775 The Data Warehouse ETL Toolkit 9780764567575 **Life Cycle Reliability Engineering** Guang Yang, 2007-02-02 As the Lead Reliability Engineer for Ford Motor Company Guangbin Yang is involved with all aspects of the design and production of complex automotive systems Focusing on real world problems and solutions Life Cycle Reliability Engineering covers the gamut of the techniques used for reliability assurance throughout a product s life cycle Yang pulls real world examples from his work and other industries to explain the methods of robust design designing reliability into a product or system ahead of time statistical and real product testing software testing and ultimately verification and warranting of the final product s reliability InfoWorld .2005-01-31 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects The Earth Observer ,1994

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