



The Data Warehouse Lifecycle Toolkit

Second Edition

Practical Techniques
for Building Data
Warehouse and
Business Intelligence
Systems

Ralph Kimball
Margy Ross
Warren Thornthwaite
Joy Mundy
Bob Becker



The Data Warehouse Lifecycle Toolkit Ralph Kimball

**Ralph Kimball, Margy Ross, Bob
Becker, Joy Mundy, Warren
Thornthwaite**



The Data Warehouse Lifecycle Toolkit Ralph Kimball:

The Data Warehouse Lifecycle Toolkit Ralph Kimball, Margy Ross, Warren Thornthwaite, Joy Mundy, Bob Becker, 2008-01-10 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 **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 Kimball's Data Warehouse Toolkit Classics Ralph Kimball, Margy Ross, Bob Becker, Joy 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 **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 *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™ 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

Three Volume Set of Ralph Kimball's Toolkit Books Ralph Kimball,2000-06-12 Ralph Kimball's three data warehousing books The Data Warehouse Toolkit The Data Warehouse Lifecycle Toolkit and The Data Webhouse Toolkit provide you with everything you will need to create manage and use your data warehouse His first book The Data Warehouse Toolkit is the definitive guide to building a data warehouse Kimball uses actual case studies of existing data warehouses developed for specific types of business applications such as retail manufacturing banking insurance subscriptions and airline reservations Using the techniques learned in Kimball's first book The Data Warehouse Lifecycle Toolkit carries them to the larger issues of delivering complete data marts and data warehouses The book shows you all the practical details involved in planning designing developing deploying and growing data warehouses The Data Webhouse Toolkit is a groundbreaking guide which introduces the Webhouse a powerful new way of capturing valuable information flowing into a Web site and ordering it in ways that are useful to managers strategic decision makers and customers

The Data Warehouse Lifecycle Toolkit Ralph Kimball,Margy Ross,Warren Thornthwaite,Joy Mundy,Bob Becker,2008 The world of data warehousing has changed remarkably since the first edition of The Data Warehouse Lifecycle Toolkit was published in 1998 With this new edition Ralph Kimball and his colleagues have refined the original set of Lifecycle methods and techniques based on their consulting and training experience They walk you through the detailed steps of designing developing and deploying a data warehousing business intelligence system With substantial new and updated content this second edition again sets the standard in data warehousing for the next decade

The Data Warehouse Lifecycle Toolkit, 2nd Ed Ralph Kimball,Margy Ross,Warren Thorthwaite,Bob Becker,Joy Mundy,2008-06 Market_Desc Data warehouse Designers Data warehouse Architects Data warehouse Developers Data warehouse Managers Special Features The current first edition has sold more than 72 000 copies generating net revenue of more than 2.5 million The methods described in this book have been adopted by almost all leading data warehouse vendors Ralph Kimball and his co authors are recognized as the driving thought leaders in the data warehousing industry there is no direct competition The authors actively promote this methodology in training and consulting worldwide and in their writing in magazines and online About The Book The book covers best practices from data warehouse project inception through on going program management About 30 to 40% of the content in the book is updated and new This revised tutorial covers major lifecycle topics such as dimensional modeling tech architecture ETL BI etc It is targeted at both novice and experienced data warehouse professionals

The Data Warehouse Toolkit Ralph Kimball,Margy Ross,2013-07-01 Updated new edition of Ralph

Kimball's groundbreaking book on dimensional modeling for data warehousing and business intelligence. The first edition of Ralph Kimball's *The Data Warehouse Toolkit* introduced the industry to dimensional modeling and now his books are considered the most authoritative guides in this space. This new third edition is a complete library of updated dimensional modeling techniques, the most comprehensive collection ever. It covers new and enhanced star schema dimensional modeling patterns, adds two new chapters on ETL techniques, includes new and expanded business matrices for 12 case studies, and more. Authored by Ralph Kimball and Margy Ross, known worldwide as educators, consultants, and influential thought leaders in data warehousing and business intelligence. Begins with fundamental design recommendations and progresses through increasingly complex scenarios. Presents unique modeling techniques for business applications such as inventory management, procurement, invoicing, accounting, customer relationship management, big data analytics, and more. Draws real world case studies from a variety of industries including retail, sales, financial services, telecommunications, education, health care, insurance, e-commerce, and more. Design dimensional databases that are easy to understand and provide fast query response with *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, 3rd Edition*. **Building and Maintaining a Data Warehouse** For Silvers, 2008-03-18. As it is with building a house, most of the work necessary to build a data warehouse is neither visible nor obvious when looking at the completed product. While it may be easy to plan for a data warehouse that incorporates all the right concepts, taking the steps needed to create a warehouse that is as functional and user-friendly as it is theoretical. **Outlines and Highlights for the Data Warehouse Lifecycle Toolkit by Ralph Kimball, ISBN** Cram101 Textbook Reviews, 2011-04-01. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompany's 9780470149775. [Studyguide for the Data Warehouse Lifecycle Toolkit by Kimball, Ralph](#) Cram101 Textbook Reviews, 2013-05. Never HIGHLIGHT a Book Again! Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompany's 9780521673761. [Building the Data Warehouse](#) W. H. Inmon, 2005-10-03. The new edition of the classic bestseller that launched the data warehousing industry covers new approaches and technologies, many of which have been pioneered by Inmon himself. In addition to explaining the fundamentals of data warehouse systems, the book covers new topics such as methods for handling unstructured data in a data warehouse and storing data across multiple storage media. Discusses the pros and cons of relational versus multidimensional design and how to measure return on investment in planning data warehouse projects. Covers advanced topics including data monitoring and testing. Although the book includes an extra 100 pages worth of valuable content, the price has actually been reduced from 65 to 55. *Building a Scalable Data Warehouse with Data Vault*

2.0 Daniel Linstedt, Michael Olschimke, 2015-09-15 The Data Vault was invented by Dan Linstedt at the U S Department of Defense and the standard has been successfully applied to data warehousing projects at organizations of different sizes from small to large size corporations Due to its simplified design which is adapted from nature the Data Vault 2 0 standard helps prevent typical data warehousing failures Building a Scalable Data Warehouse covers everything one needs to know to create a scalable data warehouse end to end including a presentation of the Data Vault modeling technique which provides the foundations to create a technical data warehouse layer The book discusses how to build the data warehouse incrementally using the agile Data Vault 2 0 methodology In addition readers will learn how to create the input layer the stage layer and the presentation layer data mart of the Data Vault 2 0 architecture including implementation best practices Drawing upon years of practical experience and using numerous examples and an easy to understand framework Dan Linstedt and Michael Olschimke discuss How to load each layer using SQL Server Integration Services SSIS including automation of the Data Vault loading processes Important data warehouse technologies and practices Data Quality Services DQS and Master Data Services MDS in the context of the Data Vault architecture Provides a complete introduction to data warehousing applications and the business context so readers can get up and running fast Explains theoretical concepts and provides hands on instruction on how to build and implement a data warehouse Demystifies data vault modeling with beginning intermediate and advanced techniques Discusses the advantages of the data vault approach over other techniques also including the latest updates to Data Vault 2 0 and multiple improvements to Data Vault 1 0

Agile Data Warehouse Design Lawrence Corr, Jim Stagnitto, 2011-11 Agile Data Warehouse Design is a step by step guide for capturing data warehousing business intelligence DW BI requirements and turning them into high performance dimensional models in the most direct way by modelstorming data modeling brainstorming with BI stakeholders This book describes BEAM an agile approach to dimensional modeling for improving communication between data warehouse designers BI stakeholders and the whole DW BI development team BEAM provides tools and techniques that will encourage DW BI designers and developers to move away from their keyboards and entity relationship based tools and model interactively with their colleagues The result is everyone thinks dimensionally from the outset Developers understand how to efficiently implement dimensional modeling solutions Business stakeholders feel ownership of the data warehouse they have created and can already imagine how they will use it to answer their business questions Within this book you will learn Agile dimensional modeling using Business Event Analysis using data story themes not crowd s feet to describe detail Storyboarding the data warehouse to discover conformed dimensions and plan iterative development Visual modeling sketching timelines charts and grids to model complex process measurement simply Agile design documentation enhancing star schemas with BEAM dimensional shorthand notation Solving difficult DW BI performance and usability problems with proven dimensional design patterns Lawrence Corr is a data warehouse designer and educator As Principal of DecisionOne Consulting he helps clients to review

and simplify their data warehouse designs and advises vendors on visual data modeling techniques He regularly teaches agile dimensional modeling courses worldwide and has taught dimensional DW BI skills to thousands of students Jim Stagnitto is a data warehouse and master data management architect specializing in the healthcare financial services and information service industries He is the founder of the data warehousing and data mining consulting firm Llumino

The Data Webhouse Toolkit Ralph Kimball, Richard Merz, 2000-02-03 Ralph's latest book ushers in the second wave of the Internet Bottom line this book provides the insight to help companies combine Internet based business intelligence with the bounty of customer data generated from the internet William Schmarzo Director World Wide Solutions Sales and Marketing IBM NUMA Q Receiving over 100 million hits a day the most popular commercial Websites have an excellent opportunity to collect valuable customer data that can help create better service and improve sales Companies can use this information to determine buying habits provide customers with recommendations on new products and much more Unfortunately many companies fail to take full advantage of this deluge of information because they lack the necessary resources to effectively analyze it In this groundbreaking guide data warehousing's bestselling author Ralph Kimball introduces readers to the Data Webhouse the marriage of the data warehouse and the Web If designed and deployed correctly the Webhouse can become the linchpin of the modern customer focused company providing competitive information essential to managers and strategic decision makers In this book Dr Kimball explains the key elements of the Webhouse and provides detailed guidelines for designing building and managing the Webhouse The results are a business better positioned to stay healthy and competitive In this book you'll learn methods for Tracking Website user actions Determining whether a customer is about to switch to a competitor Determining whether a particular Web ad is working Capturing data points about customer behavior Designing the Website to support Webhousing Building clickstream datamarts Designing the Webhouse user interface Managing and scaling the Webhouse The companion Website at www.wiley.com/compbooks/kimball provides updates on Webhouse technologies and techniques as well as links to related sites and resources

Open Source ETL-The Prodigy Kids Binayaka Mishra, 2017-06-19 It's said ETL concept gained popularity in the 1970s when organizations began using multiple data repositories or databases to store different types of business information but only as a technical concept The need to integrate data that was spread across these databases grew quickly ETL became the standard method for taking data from disparate sources and transforming it before loading it to a target source or destination In the late 1980s and early 1990s data warehouses came onto the scene A distinct type of database data warehouses provided integrated access to data from multiple systems mainframe computers minicomputers personal computers and spreadsheets Coupled with mergers and acquisitions many organizations wound up with several different ETL solutions that were not integrated

Mastering Data Warehouse Design Claudia Imhoff, Nicholas Gallemmo, Jonathan G. Geiger, 2003 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 Recent Trends in Materials and Mechanical Engineering Materials, Mechatronics and
Automation Qi Luo,2011-05-03 Selected peer reviewed paper from 2011 International Conference on Recent Trends in
Materials and Mechanical Engineering ICRTMME 2011 27 28 January 2011 China Shenzhen MASTER DATA
MANAGEMENT AND DATA GOVERNANCE, 2/E Alex Berson,Larry Dubov,2010-12-06 The latest techniques for building a
customer focused enterprise environment The authors have appreciated that MDM is a complex multidimensional area and
have set out to cover each of these dimensions in sufficient detail to provide adequate practical guidance to anyone
implementing MDM While this necessarily makes the book rather long it means that the authors achieve a comprehensive
treatment of MDM that is lacking in previous works Malcolm Chisholm Ph D President AskGet com Consulting Inc Regain
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