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"The Data Warehouse ETL Toolkit"  
falls far short of this requirement,  
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found there were very few "Practical  
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me that would help me in my work.

Cowritten by Ralph Kimball, the world's leading data warehousing authority, whose previous books have sold more than 150,000 copies



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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

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remaining data into correctly formatted data structures, and then loading the end product into the data warehouse

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Practical intelligence Begins with  
fundamental design recommendations  
and progresses through increasingly  
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applications such as inventory  
management, procurement, invoicing,  
accounting, customer relationship

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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

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A thorough update to the industry  
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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:

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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

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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

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adaptable systems that deliver data  
and analyses to business users so  
they can make better business  
decisions.

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## Practical Techniques For

"... 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

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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,

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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



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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,

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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

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for querying dimensional data  
warehouses. \* Working models of all  
the databases described in the book.

The data warehousing bible updated  
for the new millennium Updated and  
expanded to reflect the many  
technological advances occurring

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since the previous edition, this latest edition of the data warehousing "bible" provides a comprehensive introduction to building data marts, operational data stores, the Corporate Information Factory, exploration warehouses, and Web-enabled warehouses. Written by the father of the data warehouse

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concept, the book also reviews the unique requirements for supporting e-business and explores various ways in which the traditional data warehouse can be integrated with new technologies to provide enhanced customer service, sales, and support—both online and offline—including near-

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line data storage techniques.

Ralph Kimball invented a data warehousing technique called ?dimensional modelling? and popularised it in his first Wiley bestseller The Data Warehouse Toolkit. Since then dimensional

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modelling has become the most widely accepted technique for data warehouse design. Since the first edition, Kimball has improved on his earlier techniques and created many new ones. In this second edition, he provides a comprehensive collection of all of them, from basic to advanced,

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and strategies for optimising data warehouse design for common business applications. He includes examples for retail sales, inventory management, procurement, orders and invoices, customer relationship management, accounting, financial services, telecommunication and



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utilities, health care, insurance and more. He also presents unique modelling techniques for e-commerce and shows strategies for optimising performance. A companion Web site provides updates on dimensional modelling techniques, links to related sites and source code where

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appropriate. Practical Techniques For

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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

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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

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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

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modeling using Business Event  
Analysis & Modeling (BEAM )  
Modelstorming: data modeling that is  
quicker, more inclusive, more  
productive, and frankly more fun!  
Telling dimensional data stories using  
the 7Ws (who, what, when, where,  
how many, why and how) Modeling by

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example not abstraction; using data  
story themes, not crow'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

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Practical 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



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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.

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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.

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Written in lucid language, this valuable textbook brings together fundamental concepts of data mining and data warehousing in a single volume.

Important topics including information theory, decision tree, Naïve Bayes classifier, distance metrics, partitioning clustering, associate mining, data

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Practical and operational data store are discussed comprehensively. The textbook is written to cater to the needs of undergraduate students of computer science, engineering and information technology for a course on data mining and data warehousing. The text simplifies the understanding

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of the concepts through exercises and practical examples. Chapters such as classification, associate mining and cluster analysis are discussed in detail with their practical implementation using Weka and R language data mining tools. Advanced topics including big data analytics, relational

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