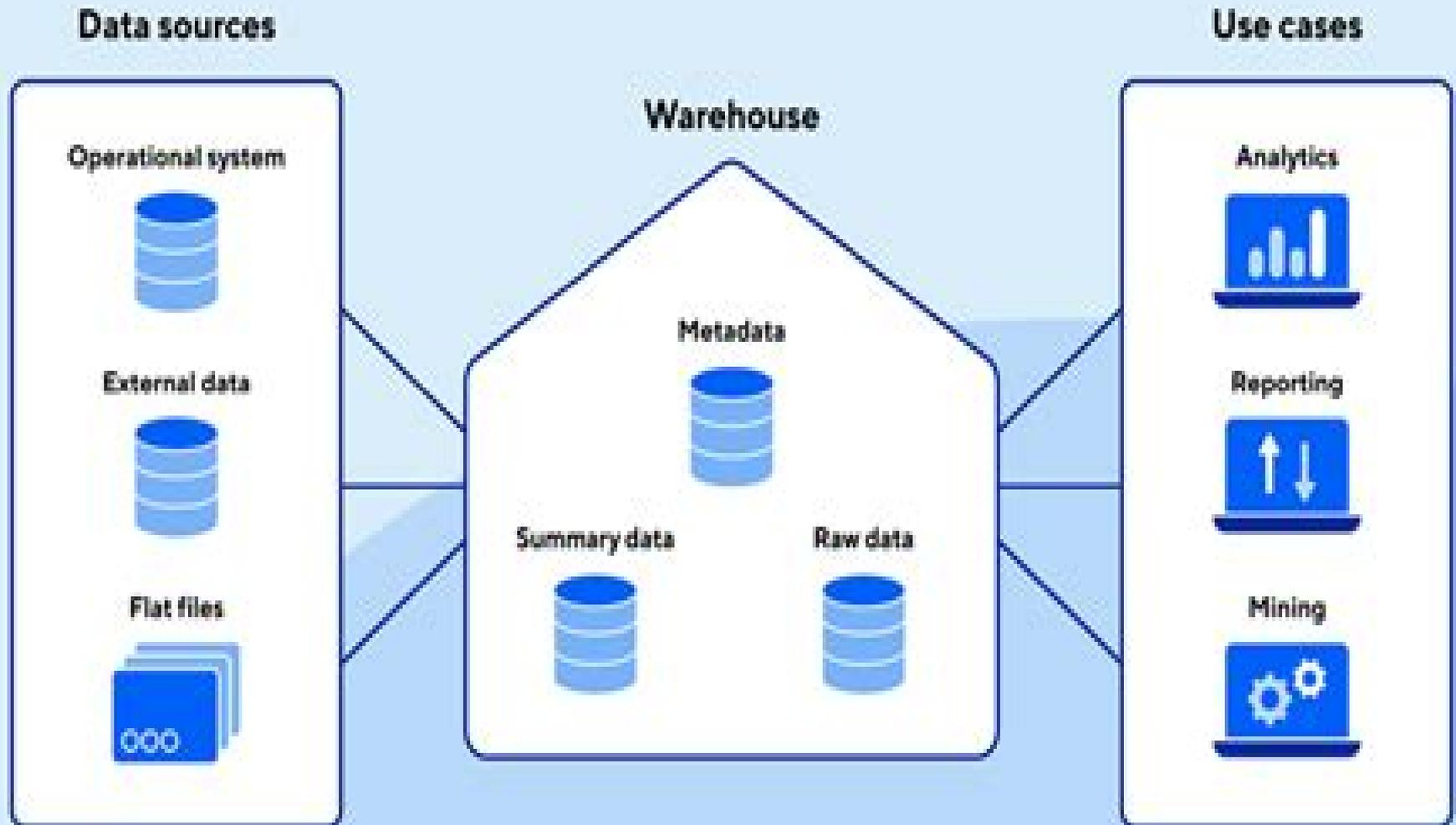


# Data warehouse design



# Data Warehouse Design Solutions

**Witold Abramowicz, Jozef M Zurada**



## **Data Warehouse Design Solutions:**

**Data Warehouse Design Solutions** Christopher Adamson, Michael Venerable, 1998-07-13 Each chapter is a practice run for the way we all ought to design our data marts and hence our data warehouses Ralph Kimball from the Foreword Let the experts show you how to customize data warehouse designs for real business needs in Data Warehouse Design Solutions To effectively design a data warehouse you have to understand its many business uses This guidebook shows you how business managers in different corporate functions actually use data warehouses to make decisions You ll get a rich set of data warehouse designs that flow from realistic business cases Two top experts show you how to customize your data warehouse designs for real life business needs including Sales and marketing Production and inventory management Budgeting and financial reporting Quality control Product delivery and fulfillment Strategic business analysis such as determining market share rates of return on investment and other key analytic ratios CD ROM includes All sample data warehouse designs with accompanying preformatted reports in HTML for specific business uses such as marketing sales and financial analysis

Data Warehouse Designs Fon Silvers, 2011-12-14 Market Basket Analysis MBA provides the ability to continually monitor the affinities of a business and can help an organization achieve a key competitive advantage Time Variant data enables data warehouses to directly associate events in the past with the participants in each individual event In the past however the use of these powerful tools in tandem led to performance degradation and resulted in unactionable and even damaging information Data Warehouse Designs Achieving ROI with Market Basket Analysis and Time Variance presents an innovative soup to nuts approach that successfully combines what was previously incompatible without degradation and uses the relational architecture already in place Built around two main chapters Market Basket Solution Definition and Time Variant Solution Definition it provides a tangible how to design that can be used to facilitate MBA within the context of a data warehouse Presents a solution for creating home grown MBA data marts Includes database design solutions in the context of Oracle DB2 SQL Server and Teradata relational database management systems RDBMS Explains how to extract transform and load data used in MBA and Time Variant solutions The book uses standard RDBMS platforms proven database structures standard SQL and hardware and software and practices already accepted and used in the data warehousing community to fill the gaps left by most conceptual discussions of MBA It employs a form and language intended for a data warehousing audience to explain the practicality of how data is delivered stored and viewed Offering a comprehensive explanation of the applications that provide store and use MBA data Data Warehouse Designs provides you with the language and concepts needed to require and receive information that is relevant and actionable

**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

**Advanced Data Warehouse Design** Elzbieta Malinowski,Esteban Zimányi,2008-01-22 This exceptional work provides readers with an introduction to the state of the art research on data warehouse design with many references to more detailed sources It offers a clear and a concise presentation of the major concepts and results in the subject area Malinowski and Zimanyi explain conventional data warehouse design in detail and additionally address two innovative domains recently introduced to extend the capabilities of data warehouse systems namely the management of spatial and temporal information

**Data Warehouse Design: Modern Principles and Methodologies** Matteo Golfarelli,Stefano Rizzi,2009-05-26 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 **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 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 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

*DW 2.0: The Architecture for the Next Generation of Data Warehousing* W.H. Inmon, Derek Strauss, Genia Neushloss, 2010-07-28 DW 2 0 The Architecture for the Next Generation of Data Warehousing is the first book on the new generation of data warehouse architecture DW 2 0 by the father of the data warehouse The book describes the future of data warehousing that is technologically possible today at both an architectural level and technology level The perspective of the book is from the top down looking at the overall architecture and then delving into the issues underlying the components This allows people who are building or using a data warehouse to see what lies ahead and determine what new technology to buy how to plan extensions to the data warehouse what can be salvaged from the current system and how to justify the expense at the most practical level This book gives experienced data warehouse professionals everything they need in order to implement the new generation DW 2 0 It is designed for professionals in the IT organization including data architects DBAs systems design and development professionals as well as data warehouse and knowledge management professionals First book on the new generation of data warehouse architecture DW 2 0 Written by the father of the data warehouse Bill Inmon a columnist and newsletter editor of The Bill Inmon Channel on the Business Intelligence Network Long overdue comprehensive coverage of the implementation of technology and tools that enable the new generation of the DW metadata temporal data ETL unstructured data and data quality control

**Microsoft SQL Server 2008 Integration Services** Erik Veerman, Jessica M. Moss, Brian Knight, Jay Hackney, 2009-10-16 An authoritative guide to designing effective solutions for data cleansing ETL and file management with SQL Server 2008 Integration Services SQL Server Integration Services SSIS is the leading tool in the data warehouse industry used for performing extraction transformation and load operations After an overview of SSIS architecture the authors walk you a series of real world problems and show various techniques for handling them Shows you how to design SSIS solutions for data cleansing ETL and file management Demonstrates how to integrate data from a variety of data sources Shows how to monitor SSIS performance Demonstrates how to avoid common pitfalls involved with SSIS deployment Explains how to ensure performance of the deployed solution and effectively handle unexpected system failures and outages The companion Web site provides sample code and database scripts that readers can directly implement This book shows you how to design build deploy and manage solutions to real world problems that SSIS administrators and developers face day to day

**Enterprise Information Systems Design, Implementation and Management** Maria Manuela Cruz-Cunha, Joao Varajao, 2011-01-01 This book investigates the creation and implementation of enterprise information systems covering a wide array of topics such as flow shop scheduling information systems outsourcing ERP systems utilization Dietz transaction methodology and advanced planning systems Provided by publisher

*Building the Data Warehouse* W. H. Inmon, 2005 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

**Accelerating Customer Relationships** Ronald S. Swift, 2001 Preface Corporations that achieve high customer retention and high customer profitability aim for The right product or service to the right customer at the right price at the right time through the right channel to satisfy the customer s need or desire Information Technology in the form of sophisticated databases fed by electronic commerce point of sale devices ATMs and other customer touch points is changing the roles of marketing and managing customers Information and knowledge bases abound and are being leveraged to drive new profitability and manage changing relationships with customers The creation of knowledge bases sometimes called data warehouses or Info Structures provides profitable opportunities for business managers to define and analyze their customers behavior to develop and better manage short and long term relationships Relationship Technology will become the new norm for the use of information and customer knowledge bases to forge more meaningful relationships This will be accomplished through advanced technology processes centered on the customers and channels as well as methodologies and software combined to affect the behaviors of organizations internally and their customers channels externally We are quickly moving from Information Technology to Relationship Technology The positive effect will be astounding and highly profitable for those that also foster CRM At the turn of the century merchants and bankers knew their customers they lived in the same neighborhoods and understood the individual shopping and banking needs of each of their customers They practiced the purest form of Customer Relationship Management CRM With mass merchandising and franchising customer relationships became distant As the new millennium begins companies are beginning to leverage IT to return to the CRM principles of the neighborhood store and bank The customer should be the primary focus for most organizations Yet customer information in a form suitable for marketing or management purposes either is not available or becomes available long after a market opportunity passes therefore CRM opportunities are lost Understanding customers today is accomplished by maintaining and acting on historical and very detailed data obtained from numerous computing and point of contact devices The data is merged enriched and transformed into meaningful information in a specialized database In a world of powerful computers personal software applications and easy to use analytical end user software tools managers have the power to segment and directly address marketing opportunities through well managed processes and marketing strategies This book is written for business executives and managers interested in gaining advantage by using advanced customer information and marketing

process techniques Managers charged with managing and enhancing relationships with their customers will find this book a profitable guide for many years Many of today s managers are also charged with cutting the cost of sales to increase profitability All managers need to identify and focus on those customers who are the most profitable while possibly withdrawing from supporting customers who are unprofitable The goal of this book is to help you identify actions to categorize and address your customers much more effectively through the use of information and technology define the benefits of knowing customers more intimately and show how you can use information to increase turnover revenues satisfaction and profitability The level of detailed information that companies can build about a single customer now enables them to market through knowledge based relationships By defining processes and providing activities this book will accelerate your CRM learning curve and provide an effective framework that will enable your organization to tap into the best practices and experiences of CRM driven companies in Chapter 14 In Chapter 6 you will have the opportunity to learn how to in less than 100 days start or advance your customer database or data warehouse environment This book also provides a wider managerial perspective on the implications of obtaining better information about the whole business The customer centric knowledge based info structure changes the way that companies do business and it is likely to alter the structure of the organization the way it is staffed and even how its management and employees behave Organizational changes affect the way the marketing department works and the way that it is perceived within the organization Effective communications with prospects customers alliance partners competitors the media and through individualized feedback mechanisms creates a whole new image for marketing and new opportunities for marketing successes Chapter 14 provides examples of companies that have transformed their marketing principles into CRM practices and are engaging more and more customers in long term satisfaction and higher per customer profitability In the title of this book and throughout its pages I have used the phrase Relationship Technologies to describe the increasingly sophisticated data warehousing and business intelligence technologies that are helping companies create lasting customer relationships therefore improving business performance I want to acknowledge that this phrase was created and protected by NCR Corporation and I use this trademark throughout this book with the company s permission Special thanks and credit for developing the Relationship Technologies concept goes to Dr Stephen Emmott of NCR s acclaimed Knowledge Lab in London As time marches on there is an ever increasing velocity with which we communicate interact position and involve our selves and our customers in relationships To increase your Return on Investment ROI the right information and relationship technologies are critical for effective Customer Relationship Management It is now possible to know who your customers are and who your best customers are stimulate what they buy or know what they won t buy time when and how they buy learn customers preferences and make them loyal customers define characteristics that make up a great profitable customer model channels are best to address a customer s needs predict what they may or will buy in the future keep your best customers for many

years This book features many companies using CRM decision support marketing databases and data warehousing techniques to achieve a positive ROI using customer centric knowledge bases Success begins with understanding the scope and processes involved in true CRM and then initiating appropriate actions to create and move forward into the future Walking the talk differentiates the perennial ongoing winners Reinvestment in success generates growth and opportunity Success is in our ability to learn from the past adopt new ideas and actions in the present and to challenge the future Respectfully Ronald S Swift Dallas Texas June 2000

**Knowledge Discovery for Business Information Systems** Witold Abramowicz, Jozef M Zurada, 2001 Knowledge discovery KDD and Data Mining DM is a new multidisciplinary field focusing on the process of information discovery from large volumes of data The field combines such areas as database concepts and theory machine learning pattern recognition and artificial intelligence

**Data Warehouse Systems** Alejandro Vaisman, Esteban Zimányi, 2022-07-15 With this textbook Vaisman and Zimanyi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications To this end their work is structured into three parts Part I describes Fundamental Concepts including conceptual and logical data warehouse design as well as querying using MDX DAX and SQL OLAP This part also covers data analytics using Power BI and Analysis Services Part II details Implementation and Deployment including physical design ETL and data warehouse design methodologies Part III covers Advanced Topics and it is almost completely new in this second edition This part includes chapters with an in depth coverage of temporal spatial and mobility data warehousing Graph data warehouses are also covered in detail using Neo4j The last chapter extensively studies big data management and the usage of Hadoop Spark distributed in memory columnar NoSQL and NewSQL database systems and data lakes in the context of analytical data processing As a key characteristic of the book most of the topics are presented and illustrated using application tools Specifically a case study based on the well known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Power BI All chapters have been revised and updated to the latest versions of the software tools used KPIs and Dashboards are now also developed using DAX and Power BI and the chapter on ETL has been expanded with the implementation of ETL processes in PostgreSQL Review questions and exercises complement each chapter to support comprehensive student learning Supplemental material to assist instructors using this book as a course text is available online and includes electronic versions of the figures solutions to all exercises and a set of slides accompanying each chapter Overall students practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses with key topics described in a clear and educational style I can only invite you to dive into the contents of the book feeling certain that once you have completed its reading or maybe targeted parts of it you will join me in expressing our gratitude to Alejandro and Esteban for providing such a comprehensive textbook for the field of data warehousing in the first place and for keeping it up to date with the recent

developments in this current second edition From the foreword by Panos Vassiliadis University of Ioannina Greece

Artificial intelligence and soft computing M. H. Hamza,1999 *Rapid Data Warehouse Design* Lawrence Corr,Jim Stagnitto,2010-05-13 An exciting new approach to dimensional data warehouse design invented by the author This how to guide shows you how a revolutionary new approach to dimensional modeling invented by the author can be used throughout the data warehouse analysis and design phases to improve communication between IT and business users and consequently produce better results Featuring proven techniques devised by the author this book introduces Business Event Analysis and Modeling BEAM a powerful yet simple technique for modeling directly with business users You ll learn how to run facilitated BEAM sessions with users to create consensus on data definitions and a sense of business ownership of the data warehouse design Demonstrates how to use Business Event Analysis and Modeling BEAM to readily capture the 5W1H combinations that represent the unique business events of any organization Presents common reusable modeling techniques for handling the complexities of people and groups the who products and services the what geography the where for each dimension type Offers extensive detailed examples for translating each BEAM model into a dimensional star schema model The companion website will include all sample models document templates and SQL code examples These proven techniques will help you accomplish your end goal ensuring that the data warehouse design meet the real needs of users Clickstream Data Warehousing Mark Sweiger,2002-01-22 The first step by step guide to building Web enabled data warehouses The Web can be an incredibly rich source of customer data and right now companies across industry sectors are hustling to get up and running with data warehouses capable of capturing the clickstream data from their Web sites This allows companies to track exactly where a customer is going or clicking to on their site in order to gain meaningful information about that customer s preferences Following Ralph Kimball s The Data Webhouse Toolkit 0 471 37680 9 where he provides the blueprint Clickstream Data Warehousing fills developers in on all the technical details that go into building a Web enabled data warehouse The authors review all key architectural and design issues that developers need to masterfully build a Webhouse using examples to illustrate key points Companion Web site features code examples from the book and links to related Web sites **Data Warehouse Designs** FON. SILVERS,2019-05-31 Market Basket Analysis MBA provides the ability to continually monitor the affinities of a business and can help an organization achieve a key competitive advantage Time Variant data enables data warehouses to directly associate events in the past with the participants in each individual event In the past however the use of these powerful tools in tandem led to performance degradation and resulted in unactionable and even damaging information Data Warehouse Designs Achieving ROI with Market Basket Analysis and Time Variance presents an innovative soup to nuts approach that successfully combines what was previously incompatible without degradation and uses the relational architecture already in place Built around two main chapters Market Basket Solution Definition and Time Variant Solution Definition it provides a tangible how to design that can be used to facilitate MBA within the context of a data

warehouse Presents a solution for creating home grown MBA data marts Includes database design solutions in the context of Oracle DB2 SQL Server and Teradata relational database management systems RDBMS Explains how to extract transform and load data used in MBA and Time Variant solutions The book uses standard RDBMS platforms proven database structures standard SQL and hardware and software and practices already accepted and used in the data warehousing community to fill the gaps left by most conceptual discussions of MBA It employs a form and language intended for a data warehousing audience to explain the practicality of how data is delivered stored and viewed Offering a comprehensive explanation of the applications that provide store and use MBA data Data Warehouse Designs provides you with the language and concepts needed to require and receive information that is relevant and actionable [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](http://www.wiley.com/compbooks/kimball) provides updates on Webhouse technologies and techniques as well as links to related sites and resources [Building a Data Warehouse for Decision Support](#) Vidette Poe, Patricia Klauer, Stephen Brobst, 1998 Completely revised expanded and updated this second edition gives extensive new coverage of data integration management indexing cleansing and transformation The book covers powerful new multi dimensional front ends and conversion tools and gives detailed coverage of lifecycle issues *Data Warehousing in the Real World* Sam Anahory, Dennis Murray, 1997 Data Warehouses are the primary means by which businesses can gain competitive advantage through analysing and using the information stored in their computerised systems However the Data

Warehousing market is inundated with confusing often contradictory technical information from suppliers of hardware databases and tools Data Warehousing in the Real World provides comprehensive guidelines and techniques for the delivery of decision support solutions using open systems Data Warehouses Written by practitioners for practitioners Data Warehousing in the Real World describes each stage of the implementation process in detail from project planning and requirements analysis through architecture and design to administrative issues such as user access security back up and recovery Read this book to Learn the fundamentals of designing large scale Data Warehouses using relational technology Take advantage of product independent comprehensive guidelines which cover all the issues you need to take into account when planning and building a Data Warehouse Benefit from the authors experience distilled into helpful hints and tips Apply to your own situation with examples of real life solutions taken from a variety of different business sectors Make use of the templates for project plans system architectures and database designs provided in the appendix About the Authors Sam Anahory is Director for Systems Integration at SHL Systemhouse UK where he runs their Data Warehousing practice delivering Data Warehousing solutions to clients and managing the systems integration required Prior to this he built up and ran the Data Warehousing Practice for Oracle Corporation UK Dennis Murray is a Principal consultant with Oracle Corporation UK While through being the Technical Architect for many Data Warehousing solutions he has accumulated a vast amount of experience on a wide range of hardware platforms Together they have collaborated on developing and giving training courses workshops and presentations on the business and technical issues associated with delivering a Data Warehouse

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