

Elzbieta Malinowski  
Esteban Zimányi

# Advanced Data Warehouse Design

From Conventional  
to Spatial and Temporal Applications

 Springer

DCSA

# Advanced Data Warehouse Design From Conventional To

**Brian Siu**



## **Advanced Data Warehouse Design From Conventional To:**

**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 Zimányi 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 Systems* Alejandro Vaisman, Esteban Zimányi, 2022-07-15 With this textbook Vaisman and Zimányi 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.

Encyclopedia of data warehousing and mining John Wang, 2008

**Handbook of Research on Innovations in**

**Database Technologies and Applications** Viviana E. Ferragline, Jorge H. Doorn, Laura C. Rivero, 2009-01-01 This book

provides a wide compendium of references to topics in the field of the databases systems and applications 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

**Data Warehouse Design: Modern Principles and Methodologies** Matteo Golfarelli,Stefano Rizzi,2009-03-03 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

Data Warehouses and OLAP Robert Wrembel,Christian Koncilia,2007-01-01 Data warehouses and online analytical processing OLAP are emerging key technologies for enterprise decision support systems They provide sophisticated technologies from data integration data collection and retrieval query optimization and data analysis to advanced user interfaces New research and technological achievements in the area of data warehousing are implemented in commercial database management systems and organizations are developing data warehouse systems into their information system infrastructures Data Warehouses and OLAP Concepts Architectures and Solutions covers a wide range of technical technological and research issues It provides theoretical frameworks presents challenges and their possible solutions and examines the latest empirical research findings in the area It is a resource of possible solutions and technologies that can be applied when designing implementing and deploying a data warehouse and assists in the dissemination of knowledge in this field

**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      *New Trends in Data Warehousing and Data Analysis* Stanislaw Kozielski,Robert Wrembel,2008-10-23 Most of modern enterprises institutions and organizations rely on knowledge based management systems In these systems knowledge is gained from data analysis Today knowledge based management systems include data warehouses as their core components Data integrated in a data warehouse are analyzed by the so called On Line Analytical Processing OLAP applications designed to discover trends patterns of behavior and anomalies as well as finding dependencies between data Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging New Trends in Data Warehousing and Data Analysis brings together the most recent research and practical achievements in the DW and OLAP technologies It provides an up to date bibliography of published works and the resource of research achievements Finally the book assists in the dissemination of knowledge in the field of advanced DW and OLAP      **Fundamentals of Data Warehouses** Matthias Jarke,Maurizio Lenzerini,Yannis Vassiliou,Panos Vassiliadis,2002-11-26 This book presents the first comparative review of the state of the art and the best current practices of data warehouses It covers source and data integration multidimensional aggregation query optimization metadata management quality assessment and design optimization A conceptual framework is presented by which the architecture and quality of a data warehouse can be assessed and improved using enriched metadata management combined with advanced techniques from databases business modeling and artificial intelligence      **Data Warehousing 101** Arshad Khan,2003 Data Warehousing 101 Concepts and Implementation will appeal to those planning data warehouse projects senior executives project managers and project implementation team members It will also be useful to functional managers business analysts developers power users and end users Data Warehousing 101 Concepts and Implementation which can be used as a textbook in an introductory data warehouse course can also be used as a supplemental text in IT courses that cover the subject of data warehousing Data Warehousing 101 Concepts and Implementation reviews the evolution of data warehousing and its growth drivers process and architecture data warehouse characteristics and design data marts multi dimensionality and OLAP It also shows how to plan a data warehouse project as well as build and operate data warehouses Data Warehousing 101 Concepts and Implementation also covers in depth common failure causes and mistakes and provides useful guidelines and tips for avoiding common mistakes      **Data Mining, Data Warehousing and Client/Server Databases** Brian Siu,1997-12 The 8th International Database Workshop organized by the Hong Kong Computer Society and held in Hong Kong in July 1997 dedicated its theme to Data Mining Data Warehouse and Client Server Databases with separate focuses on the Academic and the Industrial Streams It brought together database practitioners researchers and vendors to share and explore their methodologies and experiences of advance database systems These proceedings contain 22 of the selected papers received for the section on the Industrial Stream written by database vendors and consultants from 14 countries around the world It will serve as a useful and

practical technology reference book on the latest findings in the field      **Advanced Research on Material Engineering, Architectural Engineering and Informatization** Helen Zhang, David Jin, 2011-10-27 Selected peer reviewed papers from the 2011 International Conference on Material Engineering Architectural Engineering and Informatization MEAEI 2011 November 26 27 2011 Wuhan China      Designing a Data Warehouse Chris Todman, 2001 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE      *The E-marketplace* Warren D. Raisch, 2001 The industry moves at the speed of the Internet In order to succeed it is necessary to not just keep up with the latest developments but to stay one step ahead

**Data Mining, Data Warehousing and Client/Server Databases** Joseph Fong, 1997-10 The 8th International Database Workshop organized by the Hong Kong Computer Society and held in Hong Kong in July 1997 dedicated its theme to Data Mining Data Warehouse and Client Server Databases with separate focuses on the Academic and the Industrial Streams It brought together database practitioners researchers and vendors to share and explore their methodologies and experiences of advance database systems These proceedings contain 21 of the selected papers received for the section on the Academic Stream written by database practitioners and researchers from 13 countries around the world It will serve as a useful and practical technology reference book on the latest findings in the field      **Applications of Advanced Technology in**

**Transportation** Kelvin C. P. Wang, Samer Madanat, Shashi Sathisan Nambisan, Gary Spring, 2002 This collection contains 121 technical papers presented at the Seventh International Conference on Applications of Advanced Technology in Transportation held in Boston Massachusetts August 5 7 2002      **1999 International Symposium on Database**

**Applications in Non-Traditional Environments (DANTE '99)** Y. Kambayashi, Hiroki Takakura, 2000 Annotation This collection of 60 papers presented at the November 1999 symposium provides research results on non traditional databases such as Internet related technologies handling of various kinds of data supporting technologies for virtual organization data models system technologies and applications Topics include temporal issues in data warehouse systems a semantic caching method based on linear constraints multimedia document support inside the AHYDS platform interacting with topological invariants of spatial databases spatio temporal levels of detail LoD for browsing video databases and similarity retrieval of human motion as multi stream time series data No subject index Annotation copyrighted by Book News Inc Portland OR

*Data Warehousing and Knowledge Discovery*, 2005      **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

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