

Elzbieta Malinowski  
Esteban Zimányi

# Advanced Data Warehouse Design

From Conventional  
to Spatial and Temporal Applications



Springer

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# Advanced Data Warehouse Design From Conventional To

**Matteo Golfarelli, Stefano Rizzi**



## **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.

**Encyclopedia of data warehousing and mining** John Wang, 2008 *Handbook of Research on Innovations in Database Technologies and Applications* Viviana E. Ferraggine, 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.

**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 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

*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 **Data Warehousing and Knowledge Discovery**, 2005 **Data Warehousing** Harry Singh, 1998 Every organization today is overflowing with data records and files The smart ones are restructuring this hidden treasure into accessible reconciled data warehouses Data Warehousing gives you all the necessary tools to work this transformation on your archives so you can build and manage a successful data warehouse Data Warehousing is intended to provide practical guidance for users who are familiar with database technologies and client server architectures but it is not based on any specific hardware or software A full bibliography and glossary help bridge the gap to familiarize users with technology and terms BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved **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 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 *Interfaces*, 1999 Seeks to improve communication between managers and professionals in OR MS *Applications of Advanced Technology in Transportation* Kelvin C. P. Wang, Samer

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*Data Warehousing in Action* Sean Kelly, 1997-08-04 Construct and implement a data warehousing plan In their efforts to collect information that will give them an edge many companies have amassed vast amounts of data Often this data becomes unwieldy and difficult to translate into anything useful Data warehousing storing all of this data in a system that allows for rapid retrieval of customized information is the solution This book written by a data warehousing authority is a step by step guide to creating and managing a data warehouse from start to finish reviewing marketing technology and design issues

**Advanced Mechanical Engineering** Zhen Yu Du, Bin Liu, 2010-06-30 Selected peer reviewed papers from the 2010 International Conference on Advanced Mechanical Engineering AME 2010 will be held on September 4 5 2010 in Luoyang China

**High Performance Oracle Data Warehousing** Donald K. Burleson, 1997 High Performance Oracle Data Warehousing takes readers beyond the basics showing them how to create compact efficient lightning fast data warehouse systems with Oracle The CD ROM contains all examples and source code used in the book including SQL scripts optimized database tables templates and more

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