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# **Advanced Data Warehouse Design From Conventional To Spatial And Temporal Applications**

This book constitutes the workshop proceedings of the 16th International Conference on Database Systems for Advanced Applications, DASFAA 2011, held in Hong Kong, China, in April 2011. The volume contains six workshops, each focusing on specific research issues that contribute

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to the main themes of the  
DASFAA conference: The First  
International Workshop on  
Graph-structured Data Bases  
(GDB 2011); the First  
International Workshop on  
Spatial Information Modeling,  
Management and Mining (SIM3  
2011); the International  
Workshop on Flash-based  
Database Systems (FlashDB  
2011); the Second International  
Workshop on Social Networks  
and Social Media Mining on the  
Web (SNSMW 2011); the First  
International Workshop on Data  
Management for Emerging  
Network Infrastructures  
(DaMEN 2011); and the Fourth  
International Workshop on Data

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Quality in Integration Systems  
(DQIS 2011).

Business intelligence (BI) tools are capable of working with healthcare data in an efficient manner to generate real-time information and knowledge relevant to the success of healthcare organizations. Further, BI tools benefit healthcare professionals making critical decisions within hospitals, clinics, and physicians' offices. Applying Business Intelligence to Clinical and Healthcare Organizations presents new solutions for data analysis within the healthcare sector in order to improve the quality of medical care and

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patient quality of life. Business intelligence models and techniques are explored and their benefits for the healthcare sector exposed in this timely research-based publication comprised of chapters written by professionals and researchers from around the world. Hospital administrators, healthcare professionals, biomedical engineers, informatics engineers, and students in graduate-level healthcare management programs will find this publication essential to their professional development and research needs.

Three books by the bestselling

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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

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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

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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 innaccurate 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.

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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.

Data warehousing and online analysis technologies have shown their effectiveness in managing and analyzing a large amount of disparate data, attracting much attention from numerous research communities. Data Warehousing Design and Advanced Engineering Applications: Methods for Complex Construction covers the



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complete process of analyzing data to extract, transform, load, and manage the essential components of a data warehousing system. A defining collection of field discoveries, this advanced title provides significant industry solutions for those involved in this distinct research community.

The Complete Guide to  
Dimensional Modeling  
Methods for Complex  
Construction

Data Warehousing  
Fundamentals

Business Intelligence and Data  
Warehouse Automation

Handbook of Research on  
Advanced Data Mining

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Techniques and Applications for  
Business Intelligence

Data Warehousing Design and  
Advanced Engineering  
Applications: Methods for  
Complex Construction

*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 multi-dimensional models; conceptual and logical data warehouse design and MDX and SQL/OLAP. Subsequently, Part II details “Implementation and*

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*Deployment,” which includes physical data warehouse design; data extraction, transformation, and loading (ETL) and data analytics. Lastly, Part III covers “Advanced Topics” such as spatial data warehouses; trajectory data warehouses; semantic technologies in data warehouses and novel technologies like Map Reduce, column-store databases and in-memory databases. 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*

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*Analysis Services and Pentaho Business Analytics. All chapters are summarized using review questions and exercises to support comprehensive student learning. Supplemental material to assist instructors using this book as a course text is available at <http://cs.ulb.ac.be/DWSDIbook/>, including 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.*

*Build a modern data warehouse on*

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*Microsoft's Azure Platform that is flexible, adaptable, and fast—fast to snap together, reconfigure, and fast at delivering results to drive good decision making in your business. Gone are the days when data warehousing projects were lumbering dinosaur-style projects that took forever, drained budgets, and produced business intelligence (BI) just in time to tell you what to do 10 years ago. This book will show you how to assemble a data warehouse solution like a jigsaw puzzle by connecting specific Azure technologies that address your own needs and bring value to your business. You will see how to implement a range of architectural patterns using batches, events, and*

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*streams for both data lake technology and SQL databases. You will discover how to manage metadata and automation to accelerate the development of your warehouse while establishing resilience at every level. And you will know how to feed downstream analytic solutions such as Power BI and Azure Analysis Services to empower data-driven decision making that drives your business forward toward a pattern of success. This book teaches you how to employ the Azure platform in a strategy to dramatically improve implementation speed and flexibility of data warehousing systems. You will know how to make correct decisions in design,*

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*architecture, and infrastructure such as choosing which type of SQL engine (from at least three options) best meets the needs of your organization. You also will learn about ETL/ELT structure and the vast number of accelerators and patterns that can be used to aid implementation and ensure resilience. Data warehouse developers and architects will find this book a tremendous resource for moving their skills into the future through cloud-based implementations. What You Will Learn Choose the appropriate Azure SQL engine for implementing a given data warehouse Develop smart, reusable ETL/ELT processes that are resilient and*

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*easily maintained Automate  
mundane development tasks  
through tools such as PowerShell  
Ensure consistency of data by  
creating and enforcing data  
contracts Explore streaming and  
event-driven architectures for data  
ingestion Create advanced staging  
layers using Azure Data Lake Gen  
2 to feed your data warehouse Who  
This Book Is For Data warehouse  
or ETL/ELT developers who wish to  
implement a data warehouse  
project in the Azure cloud, and  
developers currently working in on-  
premise environments who want to  
move to the cloud, and for  
developers with Azure experience  
looking to tighten up their  
implementation and consolidate*



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*their knowledge*

*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,*

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*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,*

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*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.*

*Leverage the power of Microsoft Azure Data Factory v2 to build hybrid data solutions Key Features Combine the power of Azure Data Factory v2 and SQL Server Integration Services Design and enhance performance and scalability of a modern ETL hybrid solution Interact with the loaded data in data warehouse and data*

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*lake using Power BI Book  
Description ETL is one of the  
essential techniques in data  
processing. Given data is  
everywhere, ETL will always be the  
vital process to handle data from  
different sources. Hands-On Data  
Warehousing with Azure Data  
Factory starts with the basic  
concepts of data warehousing and  
ETL process. You will learn how  
Azure Data Factory and SSIS can  
be used to understand the key  
components of an ETL solution.  
You will go through different  
services offered by Azure that can  
be used by ADF and SSIS, such as  
Azure Data Lake Analytics,  
Machine Learning and Databrick's  
Spark with the help of practical*

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*examples. You will explore how to design and implement ETL hybrid solutions using different integration services with a step-by-step approach. Once you get to grips with all this, you will use Power BI to interact with data coming from different sources in order to reveal valuable insights. By the end of this book, you will not only learn how to build your own ETL solutions but also address the key challenges that are faced while building them. What you will learn Understand the key components of an ETL solution using Azure Data Factory and Integration Services Design the architecture of a modern ETL hybrid solution Implement ETL solutions for both on-premises and*

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*Azure data Improve the performance and scalability of your ETL solution Gain thorough knowledge of new capabilities and features added to Azure Data Factory and Integration Services Who this book is for This book is for you if you are a software professional who develops and implements ETL solutions using Microsoft SQL Server or Azure cloud. It will be an added advantage if you are a software engineer, DW/ETL architect, or ETL developer, and know how to create a new ETL implementation or enhance an existing one with ADF or SSIS.*

*Building a Star Schema  
Relational and Dimensional*

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*Techniques  
Supporting Customer Relationship  
Management*

*Object-oriented Data Warehouse  
Design*

*Breakthroughs in Research and  
Practice*

*An advanced programming guide to  
designing and managing Data  
Warehouses using SAS*

***This is the first book to  
provide in-depth coverage of  
star schema aggregates used  
in dimensional modeling-from  
selection and design, to  
loading and usage, to specific  
tasks and deliverables for  
implementation projects  
Covers the principles of  
aggregate schema design and  
the pros and cons of various***

**types of commercial solutions for navigating and building aggregates Discusses how to include aggregates in data warehouse development projects that focus on incremental development, iterative builds, and early data loads**

**IBM® InfoSphere®**

**Warehouse is the IBM flagship data warehouse platform for departmental data marts and enterprise data warehouses. It offers leading architecture, performance, backup, and recovery tools that help improve efficiency and reduce time to market through increased understanding of current data assets, while simplifying the daily**



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**operations of managing  
complex warehouse  
deployments. InfoSphere  
Warehouse Advanced  
Enterprise Edition delivers an  
enhanced set of database  
performance, management,  
and design tools. These tools  
assist companies in  
maintaining and increasing  
value from their warehouses,  
while helping to reduce the  
total cost of maintaining  
these complex environments.  
In this IBM Redbooks®  
publication we explain how  
you can build a business  
intelligence system with  
InfoSphere Warehouse  
Advanced Enterprise to  
manage and support daily  
business operations for an**

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***enterprise, to generate more income with lower cost. We describe the foundation of the business analytics, the Data Warehouse features and functions, and the solutions that can deliver immediate analytics solutions and help you drive better business outcomes. We show you how to use the advanced analytics of InfoSphere Warehouse Advanced Enterprise Edition and integrated tools for data modeling, mining, text analytics, and identifying and meeting the data latency requirements. We describe how the performance and storage optimization features can make building and managing a large data***

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**warehouse more affordable, and how they can help significantly reduce the cost of ownership. We also cover data lifecycle management and the key features of IBM Cognos® Business Intelligence. This book is intended for data warehouse professionals who are interested in gaining in-depth knowledge about the operational business intelligence solution for a data warehouse that the IBM InfoSphere Warehouse Advanced Enterprise Edition offers.**

**This book presents the first comparative review of the state of the art and the best current practices of data**

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**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. Foreword by Mark Stephen LaRow, Vice President of Products, MicroStrategy "A unique and authoritative book**

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**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  
Building the Data Warehouse  
Building with Speed and  
Agility on Microsoft's Cloud  
Platform  
Building a Scalable Data  
Warehouse with Data Vault  
2.0  
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**Open Source Data  
Warehousing and Business  
Intelligence is an all-  
in-one reference for  
developing open source  
based data warehousing  
(DW) and business  
intelligence (BI)  
solutions that are  
business-centric, cross-  
customer viable, cross-  
functional, cross-  
technology based, and  
enterprise-wide.  
Considering the entire  
lifecycle of an open  
source DW &**

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SAS software has been in  
existence for a long  
time and has been  
implemented in large,  
data-intensive  
environments, including  
data warehouses. This  
SAS book covers  
practical programming  
considerations to make  
when involving SAS in a  
data warehouse  
environment. You'll be  
able to develop the  
skills you need to apply  
SAS in your working  
environment.  
Geared to IT  
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get into the all-  
important field of data  
warehousing, this book  
explores all topics  
needed by those who  
design and implement  
data warehouses. Readers  
will learn about planning  
requirements,  
architecture,  
infrastructure,  
data preparation,  
information delivery,  
implementation, and  
maintenance. They'll also  
find a wealth of  
industry examples  
garnered from  
the author's 25 years of



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experience in designing  
and

implementing databases  
and data warehouse  
applications for  
major corporations.

Market: IT

Professionals,  
Consultants.

Mastering Data Warehouse  
Aggregates

from conventional to  
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applications

Solving Operational  
Business Intelligence  
with InfoSphere  
Warehouse Advanced

Edition

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The Kimball Group Reader  
Data Warehouses and OLAP  
Agile Data Warehouse  
Design

***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***

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***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 & Modeling (BEAM ) Modelstorming: data modeling that is quicker, more inclusive, more productive, and frankly more fun! Telling dimensional data stories using the***

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**7Ws (who, what, when, where, how many, why and how) Modeling by 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 - 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 LawrenceCorr is a data warehouse designer and educator. As Principal of DecisionOne Consulting, he helps clients to review and simplify their data warehouse designs, and**

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***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 development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing. By implementing effective data-driven techniques, this allows for advance reporting tools to cater to company-specific issues and challenges. The***

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**Handbook of Research on  
Advanced Data Mining Techniques  
and Applications for Business**

**Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision-making and risk management results. Highlighting innovative studies on data warehousing, business activity monitoring, and text mining, this publication is an ideal reference source for research scholars, management faculty, and practitioners.**

**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***

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***be applied when designing, implementing, and deploying a data warehouse, and assists in the dissemination of knowledge in this field.***

***"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***



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*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 Systems Hospital Management and Emergency Medicine: Breakthroughs in Research and*

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**The Data Warehouse Toolkit  
Database Systems for Advanced  
Applications  
Mastering Data Warehouse Design  
Solutions for Star Schema  
Performance**

"In this Agile Data Warehouse Design training course, expert author Michael Blaha will teach you how to model and design a data warehouse. This course is designed for users that are already familiar with data warehouses. You will start with a data warehouse overview, then jump into learning about data sources, such as customer order, customer account, and vendor procurement. From there, Michael teaches you about staging tables, basic data warehouse modeling, recurrent dimensions, and advanced dimension data warehouse modeling. This video tutorial also covers data warehouse design, data

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warehouse data, and end user access.

Finally, you will learn about metadata management. Once you have completed this computer based training course, you will be fully capable of modeling and designing your own data

warehouse."--Resource description page.

This book constitutes the thoroughly refereed post-proceedings of the Fifth International School and Symposium on Advanced Distributed Systems, ISSADS 2005, held in Guadalajara, Mexico in January 2005. The 50 revised full papers presented were carefully reviewed and selected from over 100 submissions. The papers are organized in topical sections on database systems, distributed and parallel algorithms, real-time distributed systems, cooperative information systems, fault tolerance, information retrieval, modeling and simulation, wireless networks and mobile computing, artificial life and multi

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agent systems.

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

Learn Business Intelligence Markup Language (Biml) for automating much of

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the repetitive, manual labor involved in data integration. We teach you how to build frameworks and use advanced Biml features to get more out of SQL Server Integration Services (SSIS), Transact-SQL (T-SQL), and SQL Server Analysis Services (SSAS) than you ever thought possible. The first part of the book starts with the basics—getting your development environment configured, Biml syntax, and scripting essentials. Whether a beginner or a seasoned Biml expert, the next part of the book guides you through the process of using Biml to build a framework that captures both your design patterns and execution management. Design patterns are reusable code blocks that standardize the approach you use to perform certain types of data integration, logging, and other key data functions. Design patterns solve common problems encountered when developing data integration

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solutions. Because you do not have to build the code from scratch each time, design patterns improve your efficiency as a Biml developer. In addition to leveraging design patterns in your framework, you will learn how to build a robust metadata store and how to package your framework into Biml bundles for deployment within your enterprise. In the last part of the book, we teach you more advanced Biml features and capabilities, such as SSAS development, T-SQL recipes, documentation autogeneration, and Biml troubleshooting. The Biml Book: Provides practical and applicable examples Teaches you how to use Biml to reduce development time while improving quality Takes you through solutions to common data integration and BI challenges What You'll Learn Master the basics of Business Intelligence Markup Language (Biml) Study patterns for automating SSIS

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package generation Build a Biml  
Framework Import and transform  
database schemas Automate generation of  
scripts and projects Who This Book Is For  
BI developers wishing to quickly locate  
previously tested solutions, Microsoft BI  
specialists, those seeking more information  
about solution automation and code  
generation, and practitioners of Data  
Integration Lifecycle Management  
(DILM) in the DevOps enterprise  
Fueling the Data Engine  
16th International Conference, DASFAA  
2011 International Workshops: GDB,  
SIM3, FlashDB, SNSMW, DaMEN,  
DQIS, Hong Kong, China, April 22-25,  
2011, Proceedings  
Open Source Data Warehousing and  
Business Intelligence  
Advanced Business Analytics  
Data Mapping for Data Warehouse  
Design

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## An Advanced Programming Guide to Designing and Managing Data Warehouses Using SAS

This new edition enhances, extends, and clarifies the concepts and examples presented in the first edition. Topics have been restructured to coherently develop the data warehouse architecture.

Build a strong foundation in SAS data warehousing by understanding data transformation code and policy, data stewardship and management, interconnectivity between SAS and other warehousing products, and print and web reporting

Key features

Understand how to use SAS



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macros for standardizing extract, transform, and load (ETL) protocols Develop and use data curation files for effective warehouse management Learn how to develop and manage ETL, policies, and print and web reports that meet user needs

Book Description SAS is used for various functions in the development and maintenance of data warehouses, thanks to its reputation of being able to handle 'big data'. This book will help you learn the pros and cons of storing data in SAS. As you progress, you'll understand how to document and design extract-transform-load (ETL) protocols for SAS processes.

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Later, you'll focus on how the use of SAS arrays and macros can help standardize ETL. The book will also help you examine approaches for serving up data using SAS and explore how connecting SAS to other systems can enhance the data warehouse user's experience. By the end of this data management book, you will have a fundamental understanding of the roles SAS can play in a warehouse environment, and be able to choose wisely when designing your data warehousing processes involving SAS. What you will learn Develop efficient ways to manage data input/output (I/O) in SAS Create and

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manage extract, transform,  
and load (ETL) code in SAS  
Standardize ETL through  
macro variables, macros, and  
arrays Identify data  
warehouse users and ensure  
their needs are met Design  
crosswalk and other  
variables to serve analyst  
needs Maintain data curation  
files to improve  
communication and management  
Use the output delivery  
system (ODS) for print and  
web reporting Connect other  
products to SAS to optimize  
storage and reporting Who  
this is book is for This  
book is for data architects,  
managers leading data  
projects, and programmers or  
developers using SAS who

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want to effectively maintain a data lake, data mart, or data warehouse.?

Advanced Data Warehouse Design From Conventional to Spatial and Temporal Applications Springer Science & Business Media

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

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warehouses, and Web-enabled warehouses. Written by the father of the data warehouse 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-line data storage techniques.

A Comprehensive Guide for IT Professionals

Kimball's Data Warehouse  
Toolkit Classics  
Design and Implementation

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Data Warehousing and  
Analytics

Hands-On Data Warehousing  
with Azure Data Factory

**This textbook covers all central activities of data warehousing and analytics, including transformation, preparation, aggregation, integration, and analysis. It discusses the full spectrum of the journey of data from operational/transactional databases, to data warehouses and data analytics; as well as the role that data**

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**warehousing plays in the data processing lifecycle. It also explains in detail how data warehouses may be used by data engines, such as BI tools and analytics algorithms to produce reports, dashboards, patterns, and other useful information and knowledge. The book is divided into six parts, ranging from the basics of data warehouse design (Part I - Star Schema, Part II - Snowflake and Bridge Tables, Part III - Advanced Dimensions,**

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**and Part IV - Multi-Fact  
and Multi-Input), to more  
advanced data  
warehousing concepts  
(Part V - Data  
Warehousing and  
Evolution) and data  
analytics (Part VI - OLAP,  
BI, and Analytics). This  
textbook approaches  
data warehousing from  
the case study angle.  
Each chapter presents  
one or more case studies  
to thoroughly explain the  
concepts and has  
different levels of  
difficulty, hence learning  
is incremental. In**



**addition, every chapter has also a section on further readings which give pointers and references to research papers related to the chapter. All these features make the book ideally suited for either introductory courses on data warehousing and data analytics, or even for self-studies by professionals. The book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises.**

**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**

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**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**

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**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**

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**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**

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**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  
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**

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**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,**

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**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. The MicroStrategy Advanced Data Warehousing course explains data modeling design challenges and**

**solutions when implementing a MicroStrategy project. The course assumes prerequisite knowledge of MicroStrategy Desktop: Reporting Essentials, MicroStrategy Architect: Project Design Essentials, and MicroStrategy Architect: Advanced Project Design. You will learn how to model complex hierarchies and attribute relationships, implement role attributes and versioning, use logical views, and optimize**

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**query performance.**

**Applying Business  
Intelligence to Clinical  
and Healthcare  
Organizations**

**Traducción técnica del  
capítulo III del libro**

**Advanced Data**

**Warehouse design**

**5th International School  
and Symposium, ISSADS**

**2005, Guadalajara,**

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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

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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



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dramatic new developments in database design, the dimensional data warehouse is a powerful database 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, and use

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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 design  
data warehouses to  
support advanced  
multidimensional  
decision support  
systems. Beginning with  
the relatively simple

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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, 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

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and navigate. On the CD-ROM you'll find: \*

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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

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Inmon approach to data  
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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,

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transactions, and data  
quality

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

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address two innovative domains recently introduced to extend the capabilities of data warehouse systems: namely, the management of spatial and temporal information.

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