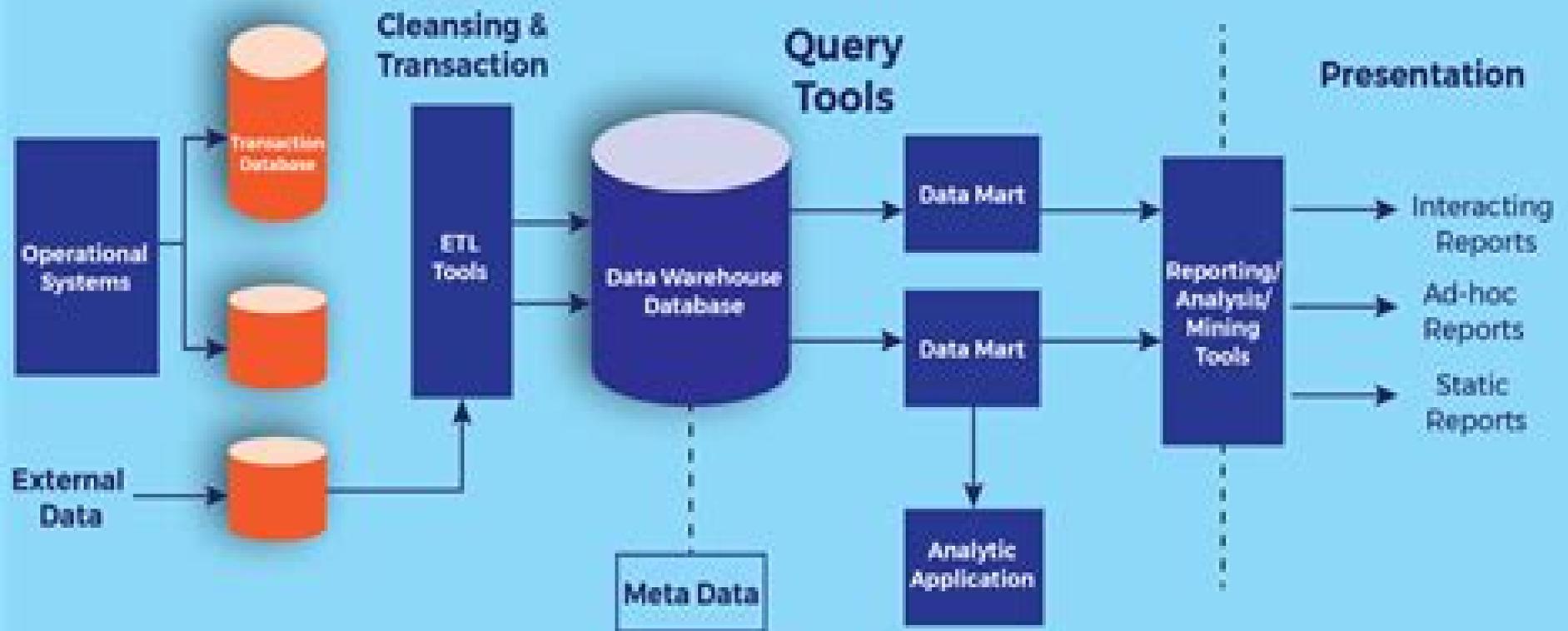


# Data Warehouse Architecture



# Using The Data Warehouse

**Jiawei Han, Jian Pei, Micheline Kamber**

## Using The Data Warehouse:

**Building a Data Warehouse** Vincent Rainardi, 2008-03-11 Building a Data Warehouse With Examples in SQL Server describes how to build a data warehouse completely from scratch and shows practical examples on how to do it Author Vincent Rainardi also describes some practical issues he has experienced that developers are likely to encounter in their first data warehousing project along with solutions and advice The relational database management system RDBMS used in the examples is SQL Server the version will not be an issue as long as the user has SQL Server 2005 or later The book is organized as follows In the beginning of this book chapters 1 through 6 you learn how to build a data warehouse for example defining the architecture understanding the methodology gathering the requirements designing the data models and creating the databases Then in chapters 7 through 10 you learn how to populate the data warehouse for example extracting from source systems loading the data stores maintaining data quality and utilizing the metadata After you populate the data warehouse in chapters 11 through 15 you explore how to present data to users using reports and multidimensional databases and how to use the data in the data warehouse for business intelligence customer relationship management and other purposes Chapters 16 and 17 wrap up the book After you have built your data warehouse before it can be released to production you need to test it thoroughly After your application is in production you need to understand how to administer data warehouse operation

**Using the Data Warehouse** W. H. Inmon, Richard D. Hackathorn, 1994-07-27 This book describes exactly how to use a data warehouse once it s been constructed The discussion of how to use information to capture and maintain competitive advantage will be of particular strategic interest to marketing production and other line managers Database professionals will appreciate the tactical advice on this topic

**Data Warehousing For Dummies** Thomas C. Hammergren, 2009-04-13 Data warehousing is one of the hottest business topics and there s more to understanding data warehousing technologies than you might think Find out the basics of data warehousing and how it facilitates data mining and business intelligence with Data Warehousing For Dummies 2nd Edition Data is probably your company s most important asset so your data warehouse should serve your needs The fully updated Second Edition of Data Warehousing For Dummies helps you understand develop implement and use data warehouses and offers a sneak peek into their future You ll learn to Analyze top down and bottom up data warehouse designs Understand the structure and technologies of data warehouses operational data stores and data marts Choose your project team and apply best development practices to your data warehousing projects Implement a data warehouse step by step and involve end users in the process Review and upgrade existing data storage to make it serve your needs Comprehend OLAP column wise databases hardware assisted databases and middleware Use data mining intelligently and find what you need Make informed choices about consultants and data warehousing products Data Warehousing For Dummies 2nd Edition also shows you how to involve users in the testing process and gain valuable feedback what it takes to successfully manage a data warehouse project and

how to tell if your project is on track You'll find it's the most useful source of data on the topic **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 *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

Building a Data Warehouse Vincent Rainardi, 2007-12-27 Building a Data Warehouse With Examples in SQL Server describes how to build a data warehouse completely from scratch and shows practical examples on how to do it Author Vincent Rainardi also describes some practical issues he has experienced that developers are likely to encounter in their first data warehousing project along with solutions and advice The relational database management system RDBMS used in the examples is SQL Server the version will not be an issue as long as the user has SQL Server 2005 or later The book is organized as follows In the beginning of this book chapters 1 through 6 you learn how to build a data warehouse for example defining the architecture understanding the methodology gathering the requirements designing the data models and creating the databases Then in chapters 7 through 10 you learn how to populate the data warehouse for example extracting from source systems loading the data stores maintaining data quality and utilizing the metadata After you populate the data warehouse in chapters 11 through 15 you explore how to present data to users using reports and multidimensional databases and how to use the data in the data warehouse for business intelligence customer relationship management and other purposes Chapters 16 and 17 wrap up the book After you have built your data warehouse before it can be released to production you need to test it thoroughly After your application is in production you need to understand how to administer data warehouse operation What you will learn A detailed understanding of what it takes to build a data warehouse The implementation code in SQL Server to build the data warehouse Dimensional modeling data extraction methods data warehouse loading populating dimension and fact tables data quality data warehouse architecture and database design Practical data warehousing applications such as business intelligence reports analytics applications and customer relationship management Who this book is for There are three audiences for the book The first are the people who implement the data warehouse This could be considered a field guide for them The second is database users admins who want to get a

good understanding of what it would take to build a data warehouse Finally the third audience is managers who must make decisions about aspects of the data warehousing task before them and use the book to learn about these issues Building the Data Warehouse W. H. Inmon,1996-04-10 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 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 **Implementing a Data Warehouse** Bruce Russell Ullrey,2007 The purpose of this book is to document the methodology and chronology of work activity used by the author to successfully implement a Data Warehouse Each of the eleven steps of the methodology is reviewed in the book often using actual working documents as examples The book contains lessons learned both good and bad as well as measures of success for each step An essential aspect of DW project implementation and other IT projects as well is using established business practices to manage development and implementation Discussion of use of these due diligence practices in Step 1 establishes the foundation for starting the DW project with the proper levels of management oversight Step 2 presents examples of business models necessary for the DW developer to understand the needs of the business that the DW will serve Other DW books describe the data modeling process but neglect to provide modeling instruction and actual examples to insure that the DW is properly aligned with business needs An elegant data warehouse that doesn't meet the needs of the business is wasted effort Step 3 documents and displays the level of detail needed to define CSF's Critical Success Factors and KPI's Key Performance Indicators If calculations for these important metrics are not defined in detail and consensus to use them is not reached then again the most elegant data warehouse implementation is a wasted effort In addition developing and documenting functional requirements is essential in identifying legacy system reporting deficiencies Step 4 describes how to access and display field level information on the iSeries platform Actual shots of the resulting screens are shown Step 5 presents the functional contents of an RFP for a Data Warehousing tool set Step 6 presents the progression of work required to build a data warehouse Step 6 also Describes and displays a hybrid dimensional to flat file data model that may be in reality the best data organizational model for a typical data warehouse Also a table is included showing examples of data file field cryptic names and their corresponding metadata name nb **Data Mining, Southeast Asia Edition** Jiawei Han,Jian Pei,Micheline Kamber,2006-04-06 Our ability to generate and collect data has been increasing rapidly Not only are all of our business scientific and government transactions now computerized but the widespread use of digital cameras publication tools and bar codes also generate data On the collection side scanned text and image platforms satellite remote sensing

systems and the World Wide Web have flooded us with a tremendous amount of data. This explosive growth has generated an even more urgent need for new techniques and automated tools that can help us transform this data into useful information and knowledge. Like the first edition, voted the most popular data mining book by KD Nuggets readers, this book explores concepts and techniques for the discovery of patterns hidden in large data sets, focusing on issues relating to their feasibility, usefulness, effectiveness, and scalability. However, since the publication of the first edition, great progress has been made in the development of new data mining methods, systems, and applications. This new edition substantially enhances the first edition, and new chapters have been added to address recent developments on mining complex types of data, including stream data, sequence data, graph structured data, social network data, and multi-relational data. A comprehensive practical look at the concepts and techniques you need to know to get the most out of real business data. Updates that incorporate input from readers, changes in the field, and more material on statistics and machine learning. Dozens of algorithms and implementation examples, all in easily understood pseudo code, and suitable for use in real world large scale data mining projects. Complete classroom support for instructors at [www.mkp.com/datamining2e](http://www.mkp.com/datamining2e) companion site.

**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.

**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 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.

**Building, Using, and Managing the Data Warehouse** Ramón C. Barquín, Herb Edelstein, 1997. When it comes to making organizations smarter, faster, and more competitive, few technologies have more promise than data warehousing. This book shows you how to translate that promise into reality.

*The Data Warehouse Toolkit* Ralph Kimball, Margy Ross, 2002. 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.

**Essential Oracle8i Data Warehousing** Gary Dodge, Tim Gorman, 2000-09-20. A soup to nuts guide to building and managing high performance Oracle8i data warehouses. [InfoWorld](http://InfoWorld), 1994-02-21. InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

**Sixth International Conference on Information Technology**, **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 crowd 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 *The Data Warehouse Lab* Amin Jalali,2017-10-10 This book aims to help students and practitioners who are new to data warehousing to start developing a new data warehouse project from scratch It shows different phases of data warehousing projects through a simple case So readers can experience the full data warehouse development life cycle through a simple example step by step The book is written for the novice user so there is no requirement for previous experience of working with MS SQL Server and other tools However it expects readers to know basics of databases like the table columns etc The book does not aim to teach data warehousing multi dimensional design principle nor play the role of a comprehensive reference book on Microsoft Business Intelligence Toolset It only intends to help readers to gets a hands on experience on data warehouse development quickly It aims to give readers basic understanding and experience so they become more confident in using reference books and online materials The book does not go through the installation of tools that are used in the sample project The readers need to install the following tools in order to follow the steps i e Microsoft SQL Server Database Engine Microsoft SQL Server Integration Services SSIS 2017 Microsoft SQL Server Analysis Services SSAS 2017 Microsoft SQL Server Management Studio SSMS Microsoft Excel and Microsoft Power BI **Data Warehousing For Dummies** Alan R. Simon,1997-11-27 This text provides database managers with guidelines for designing and maintaining a data warehouse It covers the relationship

between a data warehouse and existing systems being used in a company It seeks to enable a smooth transition from outdated systems into modern data warehouses

**Filtering the Web to Feed Data Warehouses** Witold Abramowicz, Pawel J. Kalczynski, Krzysztof Węcel, 2002-07-24

Information is a key factor in business today and data warehousing has become a major activity in the development and management of information systems to support the proper flow of information Unfortunately the majority of information systems are based on structured information stored in organizational databases which means that the company is isolated from the business environment by concentrating on their internal data sources only It is therefore vital that organizations take advantage of external business information which can be retrieved from Internet services and mechanically organized within the existing information structures Such a continuously extending integrated collection of documents and data could facilitate decision making processes in the organization Filtering the Web to Feed Data Warehouses discusses areas such as how to use data warehouse for filtering Web content how to retrieve relevant information from diverse sources on the Web how to handle the time aspect how to mechanically establish links among data warehouse structures and documents filtered from external sources how to use collected information to increase corporate knowledge and gives a comprehensive example illustrating the idea of supplying data warehouses with relevant information filtered from the Web

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The Secret: What Great Leaders Know and Do In this third edition, bestselling authors Ken Blanchard and Mark Miller answer the question most leaders ask at some point in their career: "What do I need ... The Secret: What Great Leaders Know and Do In this book he tells the story of developing a leader who develops leaders, I.e., a servant leader. A servant meets the needs of others. I still have a long ... Review of The Secret: What Great Leaders Know and Do This book broke down the basics of what it takes to be a leader in a business context and the purpose of a leader in an organization. It also did it in a fun ... The Secret: What Great Leaders Know and Do "You don't have to be older to be a great leader. The Secret shows how to lay the foundation for powerful servant leadership early in your career to maximize ... Secret What Great Leaders by Blanchard Ken The Secret: What Great Leaders Know and Do by Blanchard, Ken; Miller, Mark and a great selection of related books, art and collectibles available now at ... The Secret: What Great Leaders Know and Do As practical as it is uplifting, The Secret shares Blanchard's and Miller's wisdom about leadership in a form that anyone can easily understand and implement. "The Secret" by Ken Blanchard and Mark Miller In this second edition of The Secret, Ken Blanchard teams up with Chick-fil-A Vice President Mark Miller to summarize "what great leaders know and do. 10 Secrets of What Great Leaders Know and Do Sep 5, 2014 — 1. An iceberg as a metaphor - Think of an iceberg. What is above the water line is what you can see in people. This is the "doing" part of ... The Secret: What Great Leaders Know -- And Do by Ken ... As practical as it is uplifting, The Secret shares Blanchard's and Miller's wisdom about leadership in a form that anyone can easily understand and implement. The secret : what great leaders know and do In this third edition, bestselling authors Ken Blanchard and Mark Miller answer the question most leaders ask at some point in their career: "What do I need ... Toefl Post Test Belajar Toefl Online Pdf Toefl Post Test Belajar Toefl Online Pdf. INTRODUCTION Toefl Post Test Belajar Toefl Online Pdf [PDF]. Vocabulary for TOEFL IBT. 2007 Provides an overview of ... Contoh Soal TOEFL dan Cara Penyelesaiannya | EF Blog Pada artikel kali ini, kami akan membantu Anda untuk memahami soal dalam tes TOEFL. Berikut adalah salah satu soal

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