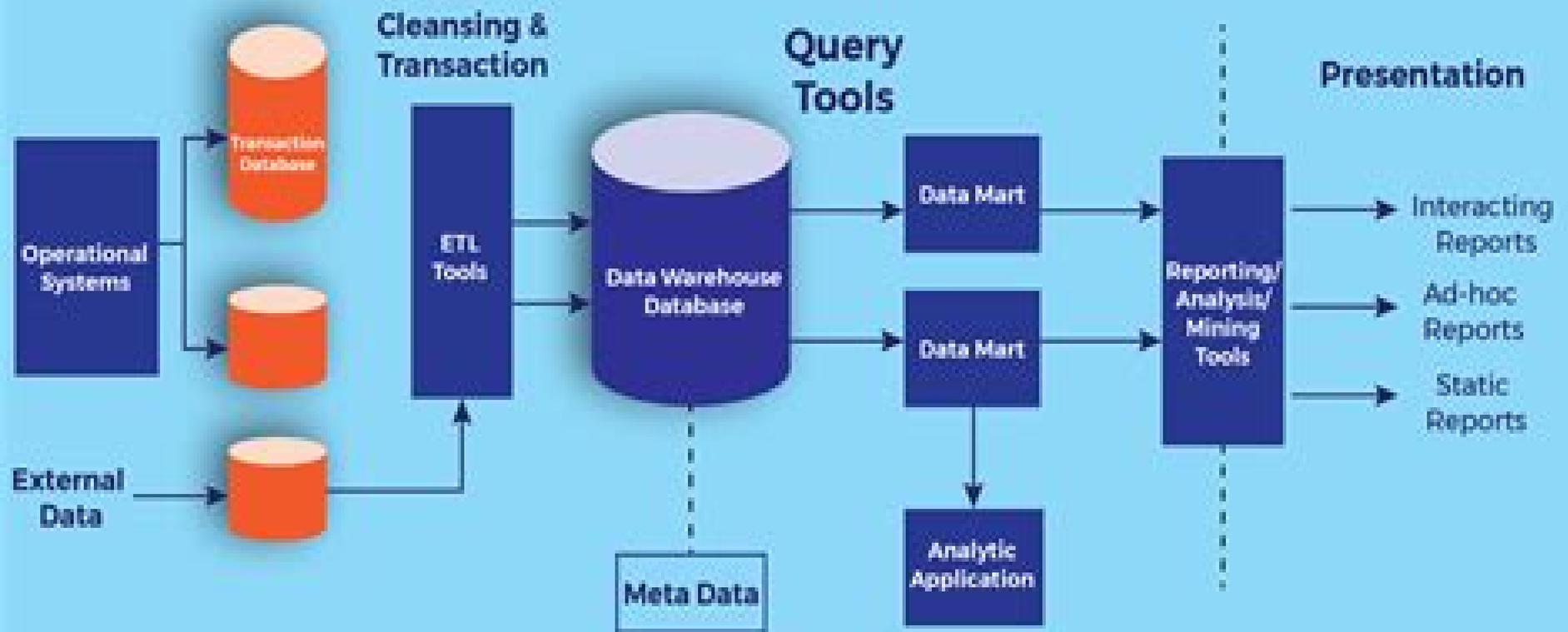


# Data Warehouse Architecture



# Building The Data Warehouse

**W.H. Inmon, Derek Strauss, Genia  
Neushloss**



## **Building The Data Warehouse:**

*Building the Data Warehouse* W. H. Inmon, 2005-10-03 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

*Building the Data Warehouse* William H. Inmon, 1992 Data warehouses provide a much needed strategy for organizations to collect store and analyze vast amounts of business data As businesses expand both brick and mortar and online activities the field of data warehousing has become increasingly important Since it was first published in 1990 W H Inmon s *Building the Data Warehouse* has been the bible of data warehousing it is the book that launched the data warehousing industry and it remains the preeminent introduction to the subject This new edition covers the latest developments with this technology many of which have been pioneered by Inmon himself

**BOOK JACKET**

*Building the Data Warehouse* W. H. Inmon, 2002-03-29 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

**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

*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

**Building the Operational Data Store** W. H. Inmon,1999-06-11 The most comprehensive guide to building using and managing the operational data store Building the Operational Data Store Second Edition In the five years since the publication of the first edition of this book the operational data store has grown from an intriguing concept to an exciting reality at enterprise organizations worldwide Still the only guide on the subject this revised and expanded edition of Bill Inmon s classic goes beyond the theory of the first edition to provide detailed practical guidance on designing building managing and getting the most of an ODS With the help of fascinating and instructive case studies Inmon shares what he knows about How the ODS fits with the corporate information factory Different types of ODS and how to choose the right one for your organization Designing and building an ODS from scratch Managing and fine tuning an ODS for peak efficiency ODS support technology The pros and cons of competing off the shelf ODS products The advantages and disadvantages of various hardware and software platforms Integrating the ODS with data marts Distributed metadata using the ODS Data aggregation within the ODS Business process reengineering and the ODS The role of standards in the ODS Visit our Web site at [www.wiley.com/compbooks](http://www.wiley.com/compbooks)

**Building and Maintaining a Data Warehouse** Fon Silvers,2008-03-18 As it is with building a house most of the work necessary to build a data warehouse is neither visible nor obvious when looking at the completed product While it may be easy to plan for a data warehouse that incorporates all the right concepts taking the steps needed to create a warehouse that is as functional and user friendly as it is theoreti

**Building the Data Lakehouse** Bill Inmon,Ranjeet Srivastava,Mary Levins,2021-10 The data lakehouse is the next generation of the data warehouse and data lake designed to meet today s complex and ever changing analytics machine learning and data science requirements Learn about the features and architecture of the data lakehouse along with its powerful analytical infrastructure Appreciate how the universal common connector blends structured textual analog and IoT data Maintain the lakehouse for future generations through Data Lakehouse Housekeeping and Data Future proofing Know how to incorporate the lakehouse into an existing data governance strategy Incorporate data catalogs data lineage tools and open source software into your architecture to

ensure your data scientists analysts and end users live happily ever after *Building the Unstructured Data Warehouse* Bill Inmon, Krish Krishnan, 2011 Learn essential techniques from data warehouse legend Bill Inmon on how to build the reporting environment your business needs now Answers for many valuable business questions hide in text How well can your existing reporting environment extract the necessary text from email spreadsheets and documents and put it in a useful format for analytics and reporting Transforming the traditional data warehouse into an efficient unstructured data warehouse requires additional skills from the analyst architect designer and developer This book will prepare you to successfully implement an unstructured data warehouse and through clear explanations examples and case studies you will learn new techniques and tips to successfully obtain and analyze text Master these ten objectives Build an unstructured data warehouse using the 11 step approach Integrate text and describe it in terms of homogeneity relevance medium volume and structure Overcome challenges including blather the Tower of Babel and lack of natural relationships Avoid the Data Junkyard and combat the Spider s Web Reuse techniques perfected in the traditional data warehouse and Data Warehouse 2.0 including iterative development Apply essential techniques for textual Extract Transform and Load ETL such as phrase recognition stop word filtering and synonym replacement Design the Document Inventory system and link unstructured text to structured data Leverage indexes for efficient text analysis and taxonomies for useful external categorization Manage large volumes of data using advanced techniques such as backward pointers Evaluate technology choices suitable for unstructured data processing such as data warehouse appliances The following outline briefly describes each chapter s content Chapter 1 defines unstructured data and explains why text is the main focus of this book The sources for text including documents email and spreadsheets are described in terms of factors such as homogeneity relevance and structure Chapter 2 addresses the challenges one faces when managing unstructured data These challenges include volume blather the Tower of Babel spelling and lack of natural relationships Learn how to avoid a data junkyard which occurs when unstructured data is not properly integrated into the data warehouse This chapter emphasizes the importance of storing integrated unstructured data in a relational structure We are cautioned on both the commonality and dangers associated with text based on paper Chapter 3 begins with a timeline of applications highlighting their evolution over the decades Eventually powerful yet siloed applications created a spider s web environment This chapter describes how data warehouses solved many problems including the creation of corporate data the ability to get out of the maintenance backlog conundrum and greater data integrity and data accessibility There were problems however with the data warehouse that were addressed in Data Warehouse 2.0 DW 2.0 such as the inevitable data lifecycle This chapter discusses the DW 2.0 architecture which leads into the role of the unstructured data warehouse The unstructured data warehouse is defined and benefits are given There are several features of the conventional data warehouse that can be leveraged for the unstructured data warehouse including ETL processing textual integration and iterative development Chapter 4 focuses on the heart of the unstructured data

warehouse Textual Extract Transform and Load ETL This chapter has separate sections on extracting text transforming text and loading text The chapter emphasizes the issues around source data There are a wide variety of sources and each of the sources has its own set of considerations Extracting pointers are provided such as reading documents only once and recognizing common and different file types Transforming text requires addressing many considerations discussed in this chapter including phrase recognition stop word filtering and synonym replacement Loading text is the final step There are important points to understand here too that are explained in this chapter such as the importance of the thematic approach and knowing how to handle large volumes of data Two ETL examples are provided one on email and one on spreadsheets Chapter 5 describes the 11 steps required to develop the unstructured data warehouse The methodology explained in this chapter is a combination of both traditional system development lifecycle and spiral approaches Chapter 6 describes how to inventory documents for maximum analysis value as well as link the unstructured text to structured data for even greater value The Document Inventory is discussed which is similar to a library card catalog used for organizing corporate documents This chapter explores ways of linking unstructured text to structured data The emphasis is on taking unstructured data and reducing it into a form of data that is structured Related concepts to linking such as probabilistic linkages and dynamic linkages are discussed Chapter 7 goes through each of the different types of indexes necessary to make text analysis efficient Indexes range from simple indexes which are fast to create and are good if the analyst really knows what needs to be analyzed before the indexing process begins to complex combined indexes which can be made up of any and all of the other kinds of indexes Chapter 8 explains taxonomies and how they can be used within the unstructured data warehouse Both simple and complicated taxonomies are discussed Techniques to help the reader leverage taxonomies including using preferred taxonomies external categorization and cluster analysis are described Real world problems are raised including the possibilities of encountering hierarchies multiple types and recursion The chapter ends with a discussion comparing a taxonomy with a data model Chapter 9 explains ways of coping with large amounts of unstructured data Techniques such as keeping the unstructured data at its source and using backward pointers are discussed The chapter explains why iterative development is so important Ways of reducing the amount of data are presented including screening and removing extraneous data as well as parallelizing the workload Chapter 10 focuses on challenges and some technology choices that are suitable for unstructured data processing The traditional data warehouse processing technology is reviewed In addition the data warehouse appliance is discussed Chapters 11 12 and 13 put all of the previously discussed techniques and approaches in context through three case studies the Ablatz Medical Group the Eastern Hills Oil Company and the Amber Oil Company

*Building the Data Warehouse, 4th Ed* William H. Inmon, 2005 Market\_Desc IT Database and Data Warehouse Managers and Developers Special Features Building the Data Warehouse has sold nearly 40 000 copies in its first 3 editions Inmon is widely recognized as the Father of the Data Warehouse and remains one of the two leading authorities in the industry he

helped to invent The new edition covers new approaches and technologies many of which have been pioneered by Inmon himself Price of this new edition will be reduced from 65 to 55 and 100 new pages added About The Book This book provides a high level conceptual overview of the major components of data warehouse systems as well as the core approaches used to design and build data warehouses Topics covered in this book are methods for handling unstructured data in a data warehouse storing data across multiple storage media the pros and cons of relational vs multidimensional design data monitoring and testing

*Building a Better Data Warehouse* Don Meyer, Casey Cannon, 1998 This book cuts through the hype and theory about data warehousing and gets down to the basics of walking every member of the team through the design and implementation of a data warehouse Beyond how to do it this book is an implementation methodology that helps project teams identify who will be doing what and what tools each member will need

**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

[A Manager's Guide to Data Warehousing](#) Laura Reeves, 2009-05-26 Aimed at helping business and IT managers clearly communicate with each other this helpful book addresses concerns straight on and provides practical methods to building a collaborative data warehouse You ll get clear explanations of the goals and objectives of each stage of the data warehouse lifecycle while

learning the roles that both business managers and technicians play at each stage Discussions of the most critical decision points for success at each phase of the data warehouse lifecycle help you understand ways in which both business and IT management can make decisions that best meet unified objectives

**Building the Data Warehouse** W. H. Inmon,2002  
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

**Build Information System Pyramid** Taiwei Chi,2012-02 This is an introductory guide to the techniques of Data warehousing and business intelligence Centered on modeling this devotional book explores the topic of fundamental of Data warehouse architectures Using the anatomy analogy Taiwei is able to clearly explain multi layered structure of data warehouse modeling star snowflake schema dynamic ETL cube design and recommended approaches It is suitable for database engineers and developers college students as well as IT managers and professional data architects

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

**Building a Scalable Data Warehouse with Data Vault 2.0** Daniel Linstedt,Michael Olschimke,2015-09-15 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 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 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 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 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

Data Warehouse Joyce Bischoff, Ted Alexander, 1997 A practical handbook for the Data Warehouse that is designed to prepare people to progress toward providing any data anywhere anytime Data Warehouse Practical Advice from the Experts will help technical managers project managers and members of data warehouse project teams in all aspects of planning designing developing implementing and administering a data warehouse It is a practical book based on real world experiences in building hundreds of data warehouses since each chapter is written by an internationally recognized authority in that particular field An essential handbook for Technical Managers Project Managers Technical Personnel Data Warehouse Project Teams and end users who want to provide access to the wealth of corporate data that has remained unavailable to those who need it

**CD-ROM to Accompany The Data Warehouse Toolkit** Ralph Kimball, 1996 *Building Data Warehouse* Milind D. Zodge, 2011-01-11 There are various books already written in data warehousing field however my focus in this book is to provide a practical guidance on how the process starts after business strategy how the information strategy and data governance implemented in data warehouse architecture I have tried to write this book in a different way to make it more entertaining to read which flashes key ideas I have also added mind maps to layout the overall or big picture before starting the chapter

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