Data Warehouse Architecture

Data Sources → ETL → Data Warehouse → BI Tools

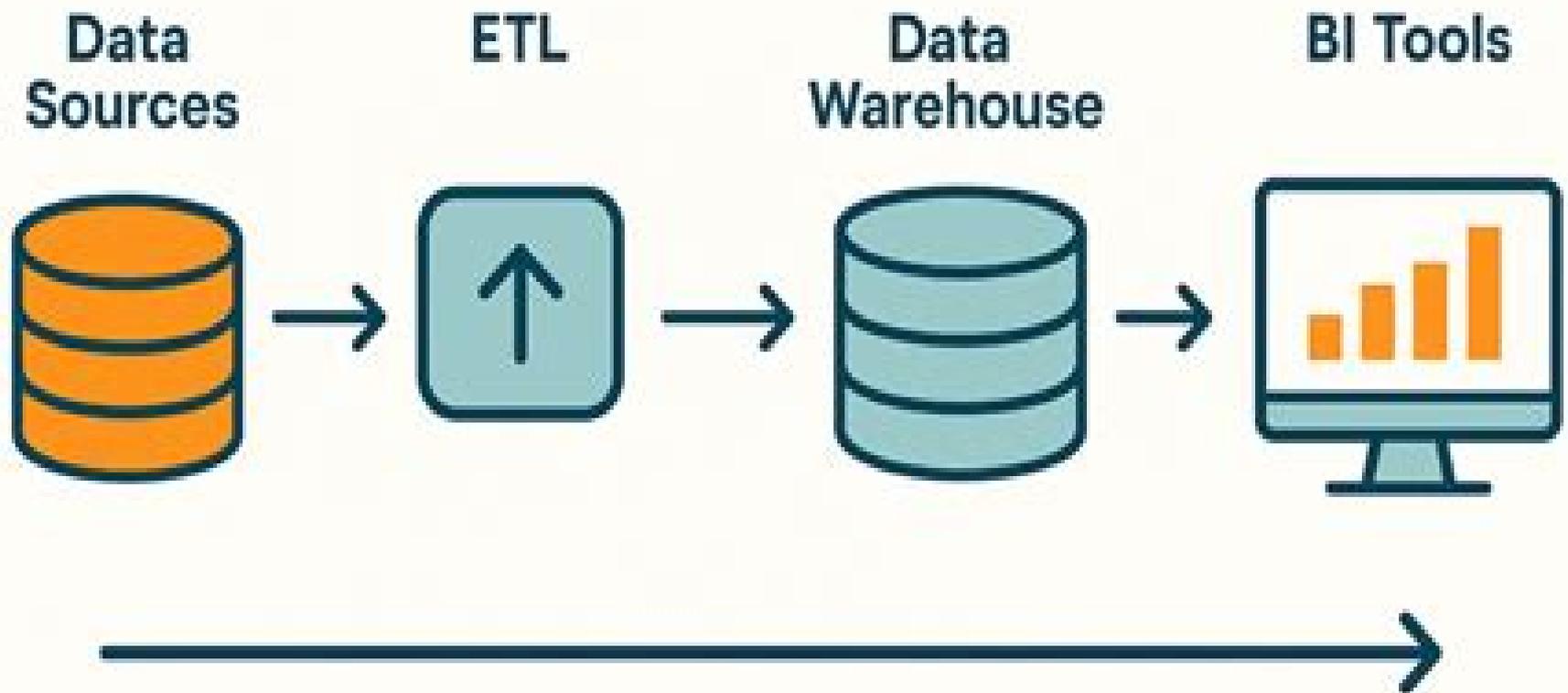Exasol

Data Warehouse From Architecture To Implementation

Daniel Linstedt,Michael Olschimke

Data Warehouse From Architecture To Implementation:

    Data Warehouse Barry Devlin,1997 Data warehousing is one of the hottest topics in the computing industry Written by Barry Devlin one of the world s leading experts on data warehousing this book gives you the insights and experiences gained over 10 years and offers the most comprehensive practical guide to designing building and implementing a successful data warehouse Included in this vital information is an explanation of the optimal three tiered architecture for the data warehouse with a clear division between data and information Information systems managers will appreciate the full description of the functions needed to implement such an architecture including reconciling existing diverse data and deriving consistent valuable business information   **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   **Data Warehousing 101** Arshad Khan,2003 Data Warehousing 101 Concepts and Implementation will appeal to those planning data warehouse projects senior executives project managers and project implementation team members It will also be useful to functional managers business analysts developers power users and end users Data Warehousing 101 Concepts and Implementation which can be used as a textbook in an introductory data warehouse course can also be used as a supplemental text in IT courses that cover the subject of data warehousing Data Warehousing 101 Concepts and Implementation reviews the evolution of data warehousing and its growth drivers process and architecture data warehouse characteristics and design data marts multi dimensionality and OLAP It also shows how to plan a data warehouse project as well as build and operate data warehouses Data Warehousing 101 Concepts and Implementation also covers in depth common failure causes and mistakes and provides useful guidelines and tips for avoiding common mistakes   **Data Warehousing** Mark

Humphries,Michael W. Hawkins,Michelle C. Dy,1999 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

Data Warehousing Fundamentals Paulraj Ponniah,2004-04-07 Geared to IT professionals eager to get into the all importantfield of data warehousing this book explores all topics needed bythose who design and implement data warehouses Readers will learnabout planning requirements architecture infrastructure datapreparation information delivery implementation and maintenance They ll also find a wealth of industry examples garnered from theauthor s 25 years of experience in designing and implementingdatabases and data warehouse applications for majorcorporations Market IT Professionals Consultants **Data Warehousing in Action** Sean Kelly,1997-08-04 Construct and implement a data warehousing plan In their efforts to collect information that will give them an edge many companies have amassed vast amounts of data Often this data becomes unwieldy and difficult to translate into anything useful Data warehousing storing all of this data in a system that allows for rapid retrieval of customized information is the solution This book written by a data warehousing authority is a step by step guide to creating and managing a data warehouse from start to finish reviewing marketing technology and design issues Data Warehousing in the Age of Big Data Krish Krishnan,2013-05-02 Data Warehousing in the Age of the Big Data will help you and your organization make the most of unstructured data with your existing data warehouse As Big Data continues to revolutionize how we use data it doesn t have to create more confusion Expert author Krish Krishnan helps you make sense of how Big Data fits into the world of data warehousing in clear and concise detail The book is presented in three distinct parts Part 1 discusses Big Data its technologies and use cases from early adopters Part 2 addresses data warehousing its shortcomings and new architecture options workloads and integration techniques for Big Data and the data warehouse Part 3 deals with data governance data visualization information life cycle management data scientists and implementing a Big Data ready data warehouse Extensive appendixes include case studies from vendor implementations and a special segment on how we can build a healthcare information factory Ultimately this book will help you navigate through the complex layers of Big Data and data warehousing while providing you information on how to effectively think about using all these technologies and the architectures to design the next generation data warehouse Learn how to leverage Big Data by effectively integrating it into your data warehouse Includes real world examples and use cases that clearly demonstrate Hadoop NoSQL HBASE Hive and other Big Data technologies Understand how to optimize and tune your current data warehouse infrastructure and integrate newer infrastructure matching data processing workloads and requirements *Enterprise Data Warehouse: Planning, building, and implementation* Eric Sperley,1999 This is an in the trenches guide to deploying data warehouses that align tightly with your business objectives Sperley delivers a practical business focused methodology that s flexible enough for any enterprise The CD ROM contains high level project plans sample data models state of the art data warehouse trialware data warehousing Web links and a demo you can use to show the practical value of data warehousing *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 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 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   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   *Building a Data Warehouse for Decision Support* Vidette Poe,Patricia Klauer,Stephen Brobst,1998 Completely revised expanded and updated this second edition gives extensive new coverage of data integration management indexing cleansing and transformation The book covers powerful new multi dimensional front ends and conversion tools and gives detailed coverage of lifecycle issues   *Data Warehousing Fundamentals for IT Professionals* Paulraj Ponniah,2011-09-20 CUTTING EDGE CONTENT AND GUIDANCE FROM A DATA WAREHOUSING EXPERT NOW EXPANDED TO REFLECT FIELD TRENDS Data warehousing has revolutionized the way businesses in a wide variety of industries perform analysis and make strategic decisions Since the first edition of Data Warehousing Fundamentals numerous enterprises have implemented data warehouse systems and reaped enormous benefits Many more are in the process of doing so Now this new revised edition covers the essential fundamentals of data warehousing and business intelligence as well as significant recent trends in the field The author provides an enhanced comprehensive overview of data warehousing together with in depth explanations of critical issues in planning design deployment and ongoing maintenance IT professionals eager to get into the field will gain a clear understanding of techniques for data extraction from source systems data cleansing data transformations data warehouse architecture and infrastructure and the various methods for information delivery This practical Second Edition highlights the areas of data warehousing and business intelligence where high impact technological progress has been made Discussions on developments include data marts real time information delivery data visualization requirements gathering methods multi tier architecture OLAP applications Web clickstream analysis data warehouse appliances and data mining techniques The book also contains review questions and exercises for each chapter appropriate for self study or classroom work industry examples of real world situations and several appendices with valuable information Specifically written for professionals responsible for designing implementing or maintaining data warehousing systems Data Warehousing Fundamentals presents agile thorough and systematic development principles for the IT professional and anyone working or researching in information management   Clickstream Data Warehousing Mark Sweiger,2002-01-22 The first step by step guide to building Web enabled data warehouses The Web can be an incredibly rich source of customer data and right now companies across

industry sectors are hustling to get up and running with data warehouses capable of capturing the clickstream data from their Web sites This allows companies to track exactly where a customer is going or clicking to on their site in order to gain meaningful information about that customer s preferences Following Ralph Kimball s The Data Webhouse Toolkit 0 471 37680 9 where he provides the blueprint Clickstream Data Warehousing fills developers in on all the technical details that go into building a Web enabled data warehouse The authors review all key architectural and design issues that developers need to masterfully build a Webhouse using examples to illustrate key points Companion Web site features code examples from the book and links to related Web sites   *Computational Intelligence, Communications, and Business Analytics* Jyotsna Kumar Mandal,Somnath Mukhopadhyay,Paramartha Dutta,Kousik Dasgupta,2019-06-25 The two volume set CCIS 1030 and 1031 constitutes the refereed proceedings of the Second International Conference on Computational Intelligence Communications and Business Analytics CICBA 2018 held in Kalyani India in July 2018 The 76 revised full papers presented in the two volumes were carefully reviewed and selected from 240 submissions The papers are organized in topical sections on computational intelligence signal processing and communications microelectronics sensors and intelligent networks data science intelligent data mining and computational forensics privacy and security   *Building the Data Warehouse* W. H. Inmon,2002-10-01 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   Deciphering Data Architectures James Serra,2024-02-06 Data fabric data lakehouse and data mesh have recently appeared as viable alternatives to the modern data warehouse These new architectures have solid benefits but they re also surrounded by a lot of hyperbole and confusion This practical book provides a guided tour of these architectures to help data professionals understand the pros and cons of each James Serra big data and data warehousing solution architect at Microsoft examines common data architecture concepts including how data warehouses have had to evolve to work with data lake features You ll learn what data lakehouses can help you achieve as well as how to distinguish data mesh hype from reality Best of all you ll be able to determine the most appropriate data architecture for your needs With this book you ll Gain a working understanding of several data architectures Learn the strengths and weaknesses of each approach Distinguish data architecture theory from reality Pick the best architecture for your use case Understand the differences between data warehouses and data lakes Learn common data architecture concepts to help you build better solutions Explore the historical evolution and characteristics of data architectures Learn essentials of running an

architecture design session team organization and project success factors Free from product discussions this book will serve as a timeless resource for years to come   **Electronic Supply Network Coordination in Intelligent and Dynamic Environments: Modeling and Implementation** Mahdavi, Iraj,Mohebbi, Shima,Cho, Namjae,2010-10-31 This book presents cutting edge knowledge on scientific approaches to the management of supply networks in a highly informed global environment with abundant dynamic and uncertain challenges Provided by publisher   **The Handbook of Technology Management, Supply Chain Management, Marketing and Advertising, and Global Management** Hossein Bidgoli,2010 The discipline of technology management focuses on the scientific engineering and management issues related to the commercial introduction of new technologies Although more than thirty U S universities offer PhD programs in the subject there has never been a single comprehensive resource dedicated to technology management The Handbook of Technology Management fills that gap with coverage of all the core topics and applications in the field Edited by the renowned Doctor Hossein Bidgoli the three volumes here include all the basics for students educators and practitioners

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