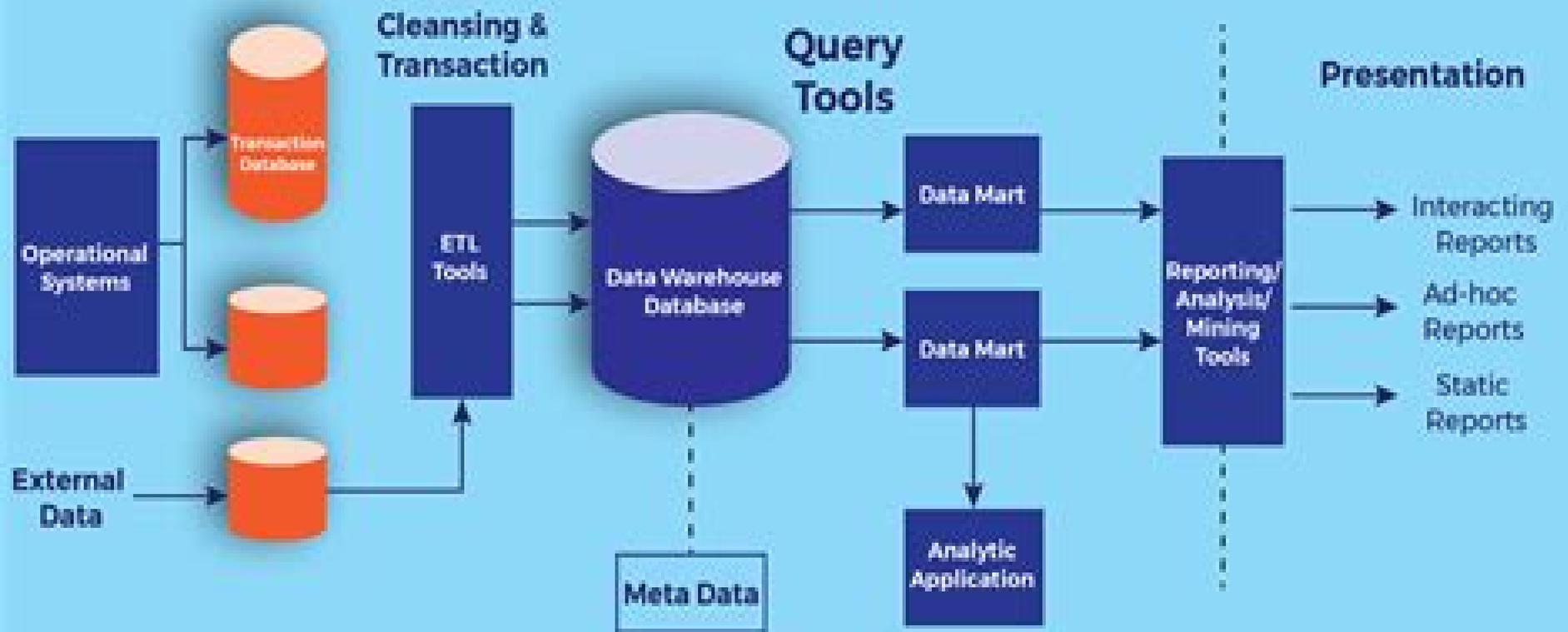


Data Warehouse Architecture



Using The Data Warehouse

Thomas C. Hammergren



Using The Data Warehouse:

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

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 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 ll 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

The Microsoft Data Warehouse Toolkit Joy Mundy,Warren Thornthwaite,2007-03-22 This groundbreaking book is the first in the Kimball Toolkit series to be product specific Microsoft s BI toolset has undergone significant changes in the SQL Server 2005 development cycle SQL Server 2005 is the first viable full functioned data warehouse and business intelligence platform to be offered at a price that will make data warehousing and business intelligence available to a broad set of organizations This book is meant to offer practical techniques to guide those organizations through the myriad of challenges

to true success as measured by contribution to business value Building a data warehousing and business intelligence system is a complex business and engineering effort While there are significant technical challenges to overcome in successfully deploying a data warehouse the authors find that the most common reason for data warehouse project failure is insufficient focus on the business users and business problems In an effort to help people gain success this book takes the proven Business Dimensional Lifecycle approach first described in best selling The Data Warehouse Lifecycle Toolkit and applies it to the Microsoft SQL Server 2005 tool set Beginning with a thorough description of how to gather business requirements the book then works through the details of creating the target dimensional model setting up the data warehouse infrastructure creating the relational atomic database creating the analysis services databases designing and building the standard report set implementing security dealing with metadata managing ongoing maintenance and growing the DW BI system All of these steps tie back to the business requirements Each chapter describes the practical steps in the context of the SQL Server 2005 platform Intended Audience The target audience for this book is the IT department or service provider consultant who is Planning a small to mid range data warehouse project Evaluating or planning to use Microsoft technologies as the primary or exclusive data warehouse server technology Familiar with the general concepts of data warehousing and business intelligence The book will be directed primarily at the project leader and the warehouse developers although everyone involved with a data warehouse project will find the book useful Some of the book s content will be more technical than the typical project leader will need other chapters and sections will focus on business issues that are interesting to a database administrator or programmer as guiding information The book is focused on the mass market where the volume of data in a single application or data mart is less than 500 GB of raw data While the book does discuss issues around handling larger warehouses in the Microsoft environment it is not exclusively or even primarily concerned with the unusual challenges of extremely large datasets About the Authors JOY MUNDY has focused on data warehousing and business intelligence since the early 1990s specializing in business requirements analysis dimensional modeling and business intelligence systems architecture Joy co founded InfoDynamics LLC a data warehouse consulting firm then joined Microsoft WebTV to develop closed loop analytic applications and a packaged data warehouse Before returning to consulting with the Kimball Group in 2004 Joy worked in Microsoft SQL Server product development managing a team that developed the best practices for building business intelligence systems on the Microsoft platform Joy began her career as a business analyst in banking and finance She graduated from Tufts University with a BA in Economics and from Stanford with an MS in Engineering Economic Systems WARREN THORNTHWAITE has been building data warehousing and business intelligence systems since 1980 Warren worked at Metaphor for eight years where he managed the consulting organization and implemented many major data warehouse systems After Metaphor Warren managed the enterprise wide data warehouse development at Stanford University He then co founded InfoDynamics LLC a data warehouse consulting firm with his co author Joy Mundy Warren

joined up with WebTV to help build a world class multi terabyte customer focused data warehouse before returning to consulting with the Kimball Group In addition to designing data warehouses for a range of industries Warren speaks at major industry conferences and for leading vendors and is a long time instructor for Kimball University Warren holds an MBA in Decision Sciences from the University of Pennsylvania s Wharton School and a BA in Communications Studies from the University of Michigan RALPH KIMBALL PH D has been a leading visionary in the data warehouse industry since 1982 and is one of today s most internationally well known authors speakers consultants and teachers on data warehousing He writes the Data Warehouse Architect column for Intelligent Enterprise formerly DBMS magazine 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 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 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

The Microsoft Data Warehouse Toolkit Joy Mundy,Warren Thornthwaite,2011-02-25 Best practices and invaluable advice from world renowned data warehouse experts In this book leading data warehouse experts from the Kimball Group share best practices for using the upcoming Business Intelligence release of SQL Server referred to as SQL Server 2008 R2 In this new edition the authors explain how SQL Server 2008 R2 provides a collection of powerful new tools that extend the power of its BI toolset to Excel and SharePoint users and they show how to use SQL Server to build a successful data warehouse that supports the business intelligence requirements that are common to most organizations Covering the complete suite of data warehousing and BI tools that are part of SQL Server 2008 R2 as well as Microsoft Office the authors walk you through a full project lifecycle including design development deployment and maintenance Features more than 50 percent new and revised material that covers the rich new feature set of the SQL Server 2008 R2 release as well as the Office 2010 release Includes brand new content that focuses on PowerPivot for Excel and SharePoint Master Data Services and discusses updated capabilities of SQL Server Analysis Integration and Reporting Services Shares detailed case examples that clearly illustrate how to best apply the techniques described in the book The accompanying Web site contains all code samples as well as the sample database used throughout the case studies The Microsoft Data Warehouse Toolkit Second Edition provides you with the knowledge of how and when to use BI tools such as Analysis Services and Integration Services to accomplish your most essential data warehousing tasks

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 companion site

Data Warehousing Fundamentals Paulraj Ponniah, 2004-04-07 Geared to IT professionals eager to 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 will also find a wealth of industry examples garnered from the author's 25 years of experience in designing and implementing databases and data warehouse applications for major corporations Market IT Professionals Consultants

Advanced Data Warehouse Design Elzbieta Malinowski, Esteban Zimányi, 2008-01-22 This exceptional work provides readers with an introduction to the state of the art research on data warehouse design with many references to more detailed sources It offers a clear and a concise presentation of the major concepts and results in the subject area Malinowski and Zimányi explain conventional data warehouse design in detail and additionally address two innovative domains recently introduced to extend the capabilities of data warehouse systems namely the management of spatial and temporal information

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 get 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

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

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

Fundamentals of Data Warehouses Matthias Jarke, 2000 The first comparative review of the state of the art and best current practice in data warehousing It covers source and data integration multidimensional aggregation query optimisation update propagation metadata management quality assessment and design optimisation Also based on results of the European DWQ project it offers a conceptual framework by which the architecture and quality of data warehousing efforts can be assessed and improved using enriched metadata management combined with advanced techniques from databases business modelling and artificial intelligence An excellent introduction to the issues of quality and metadata usage for researchers and database professionals in academia and industry

XXXXXXX Neuer Text This book presents the first comparative review of the state of the art and the best current practices of data 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

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

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

The Enigmatic Realm of **Using The Data Warehouse**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Using The Data Warehouse** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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Using The Data Warehouse Introduction

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