

As 400 Data Warehousing The Complete Guide To Implementation

A step-by-step guide to building Web-enabled data warehouses fast, this title helps readers choose the best platforms, technologies, and security techniques. Other topics include CORBA and COM distributed object solutions, data marts, data mining, and OLAP.

Master the most agile and resilient design for building analytics applications: the Unified Star Schema (USS) approach. The USS has many benefits over traditional dimensional modeling. Witness the power of the USS as a single star schema that serves as a foundation for all present and future business requirements of your organization. Data warehouse legend Bill Pappini explains step-by-step why the Unified Star Schema is the recommended approach for business intelligence designs today, and show through many examples how to build and use this new solution. This book contains two parts. Part I, Architecture, explains the benefits of data marts and data warehouses, covering how organizations progressed to their current business intelligence architectures. Chapter 1 covers the drivers behind and the characteristics of the data warehouse and data mart. Chapter 2 introduces dimensional modeling concepts, including fact tables, dimensions, star joins, and snowflakes. Chapter 3 recalls the evolution of the data mart. Chapter 4 explains Extract, Transform, and Load (ETL) and Integrated Data Mart Approach, and Chapter 6 explains how to monitor this environment. Chapter 7 describes the different types of metadata within the data warehouse environment. Chapter 8 progresses through the evolution to our current modern data warehouse environment. Part II, the Unified Star Schema, covers the Unified Star Schema (USS) approach and eight chapters within Part II. Chapter 9. Introduction to the Unified Star Schema: Learn about its architecture and use cases, as well as how the USS approach differs from the traditional approach. Chapter 10. Loss of Data: Learn about the loss of data and the USS Bridge. Understand that the USS approach does not create any join, and for this reason, it has no the Oriented Data Model convention, and learn the dangers of a fan trap through an example. Differentiate join and association, and realize that an "in-memory association" is the preferred solution to the fan trap. Chapter 12. The Chasm Trap: Become familiar with the Cartesian product, and then follow along with an example based on LinkedIn, which illustrates the USS Bridge is based on a union, which does not create any duplicates. Chapter 13. Multi-Fact Queries: Distinguish between multiple facts "with direct connection" versus multiple facts "with no direct connection". Explore how BI tools are capable of building aggregated virtual rows. Chapter 14. Loops: Learn more about loops and five traditional techniques to will illustrate the solution based on the USS approach. Chapter 15. Non-Conformed Granularities: Learn about non-conformed granularities, and learn that the Unified Star Schema introduces a solution called "re-normalization". Chapter 16. Northwind Case Study. Witness how easy it is to detect the pitfalls of Northwind using the ODM convention. Follow along with Northwind database with various BI tools.

Reviews planning and designing architecture and implementing the data warehouse. Includes discussions on how and why to apply IBM tools. Offers tips, tricks, and workarounds to ensure maximum performance. Companion Web site includes technical notes, product updates, corrections, and links to relevant material and training.

With this textbook, Vaisman and Zimányi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications. To this end, their work is structured into three parts. Part I describes "Fundamental Concepts" including multi-dimensional models: conceptual and logical data warehousing. Part II details "Implementation and Deployment," which includes physical data warehousing design: data extraction, transformation, and loading (ETL) and data analytics. Lastly, Part III covers "Advanced Topics" such as spatial data warehouses, trajectory data warehouses, semantic technologies in data warehouses and novel technologies like Map Reduce, column-store 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 Pentaho Business Analytics. All chapters are summarized using review questions and Supplemental material to assist instructors using this book as a course text is available at <http://cs.ulb.ac.be/DWSDBook/>, including electronic versions of the figures, solutions to all exercises, and a set of slides accompanying each chapter. Overall, students, practitioners and researchers alike will find this book the most comprehensive reference work on data warehousing.

Fueling the Data Engine

Data Warehousing in the Age of Big Data

Data Warehousing Fundamentals

The Inside Story of the IBM ISeries

The Data Warehouse Lifecycle Toolkit

Building a Data Warehouse

Pennd by the chief architect and spokesperson for the AS/400, an update of the history and future development of the AS/400 includes new coverage on security, data warehousing, and e-commerce. Original. (Advanced).

What is data warehousing? -- Project planning -- Business exploration -- Business case study and ROI analysis -- Organizational integration -- Technology -- Database maintenance -- Technical construction of the Wal-Mart data warehouse -- Postimplementation of the Wal-Mart data warehouse -- Store operations sample analyses -- Merchandising sample analyses.

Mattison explains what data warehouses are and how they work, key concepts of business reengineering, client/server technology, systems architecture, OLAP, DSS, and much more.

Covritten by Ralph Kimball, the world's leading data warehousing authority, whose previous books have sold more than 150,000 copies Delivers real-world solutions for the most time- and labor-intensive portion of data warehousing-data staging, or the extract, transform, and Load (ETL) process. Defines best practices for extracting data from scattered sources, removing redundant and inaccurate data, transforming the remaining data into correctly formatted data structures, and then loading the end product into the data warehouse Offers proven time-saving ETL techniques, comprehensive guidance on building dimensional structures, and crucial advice on ensuring data quality

A Methodology that Worked

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications

Using the Wal-Mart Model

Fortress Rochester

AS/400 Data Warehousing

The Complete Guide to Implementation

"A comprehensive, thoughtful, and detailed book that will be of inestimable value to anyone struggling with the complex details of designing, building, and maintaining an enterprise-wide decision support system. Highly recommended." -Robert S. Craig, Vice President, Application Architectures, Hurwitz Group, Inc. In his bestselling book, The Data Warehouse Toolkit, Ralph Kimball showed you how to use dimensional modeling to design effective and usable data warehouses. Now, he carries these techniques to the larger issues of delivering complete data marts and data warehouses. Drawing upon their experiences with numerous data warehouse implementations, he and his coauthors show you all the practical details involved in planning, designing, developing, deploying, and growing data warehouses. Important topics include:
* The Business Dimensional Lifecycle(TM) approach to data warehouse project planning and management
* Techniques for gathering requirements more effectively and efficiently
* Advanced dimensional modeling techniques to capture the most complex business rules
* The Data Warehouse Bus Architecture and other approaches for integrating data marts into super-flexible data warehouses
* A framework for creating your technical architecture
* Techniques for minimizing the risks involved with data staging
* Aggregations and other effective ways to boost data warehouse performance
* Cutting-edge, Internet-based data warehouse security techniques The CD-ROM supplies you with:
* Complete data warehouse project plan tasks and responsibilities
* A set of sample models that demonstrate the Bus Architecture
* Blank versions of the templates and tools described in the book
* Checklists to use at key points in the project

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.

What is the difference between \$79,000 and \$79? In data warehousing, it's the difference between buying expensive data warehousing software and buying a book that shows you how to implement do-it-yourself iSeries data warehousing. Rather than spend tons of money on DW software and maybe a second system, you can learn what you need by implementing an incremental data warehouse on your current iSeries with no additional software. Find out the real difference between \$79 and \$79,000.00. Spend \$79.00 for the only do-it-yourself guide to iSeries Data Warehousing available today. Both you and your budget will be glad you did!

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Computerworld

As/400 Data Warehousing, 2/E: The Complete Guide To Implementation

mastering data warehousing functions

Oracle Data Warehouse Tuning for 10g

The Ultimate Guide to Building Corporate Business Intelligence

Building the Data Warehouse

This book constitutes the refereed proceedings of the 7th International Conference on Data Warehousing and Knowledge Discovery, DaWak 2005, held in Copenhagen, Denmark, in August 2005. The 51 revised full papers presented were carefully reviewed and selected from 196 submissions. The papers are organized in topical sections on data warehouses, evaluation and tools, schema transformations, materialized views, aggregates, data warehouse queries and database processing issues, data mining algorithms and techniques, association rules, text processing and classification, security and privacy issues, patterns, and cluster and classification.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research from the hub of the world's largest global IT media network.

Written in lucid language, this valuable textbook brings together fundamental concepts of data mining and data warehousing in a single volume. Important topics including information theory, decision tree, Naive Bayes classifier, distance metrics, partitioning clustering, association mining, data marts and operational data store are discussed comprehensively. The textbook is written to cater to the needs of undergraduate students of computer science, engineering and information technology for a course on data mining and data warehousing. The text simplifies the understanding of the concepts through exercises and practical examples. Chapters such as classification, instance mining and cluster analysis are discussed in detail with their practical implementation using Weka and R language data mining tools. Advanced topics including big data analytics, relational data marts and NoSQL are discussed in detail. Pedagogical features including unsolved problems and multiple-choice questions are interspersed throughout the book for better understanding.

Data Warehousing in the Age of 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 appendices 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

Oracle 10g Data Warehousing

A Comprehensive Guide for IT Professionals

Network World

Building and Maintaining a Data Warehouse

Expert Methods for Designing, Developing, and Deploying Data Warehouses

7th International Conference, DaWak 2005, Copenhagen, Denmark, August 22-26, 2005, Proceedings

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'll 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.

This Handbook provides practitioners, scientists and graduate students with a good overview of basic notions, methods and techniques, as well as important issues and trends across the broad spectrum of data management. In particular, the book covers fundamental topics in the field such as distributed databases, parallel databases, advanced databases, object-oriented databases, advanced transaction management, workflow management, data warehousing, data mining, mobile computing, data integration and the Web. Summing up, the Handbook is a valuable source of information for academics and practitioners who are interested in learning the key ideas in the considered area.

PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Data Warehouse Development Tools

The Data Warehouse ETL Toolkit

Handbook on Data Management in Information Systems

Concepts, Methodologies, Tools, and Applications

Implementing a Data Warehouse

The Complete Guide to Dimensional Modeling

Oracle 10g Data Warehousing is a guide to using the Data Warehouse features in the latest version of Oracle—Oracle Database 10g. Written by people on the Oracle development team that designed and implemented the code and by people with industry experience implementing warehouses using Oracle technology, this thoroughly updated and extended edition provides an insider's view of how the Oracle Database 10g software is best used for your application. It provides a detailed look at the new features of Oracle Database 10g and other Oracle products and how these are used in the data warehouse. This book will show you how to deploy the Oracle database and correctly use the new Oracle Database 10g features for your data warehouse. It contains walkthroughs and examples on how to use tools such as Oracle Discoverer and Reports to query the warehouse and generate reports that can be deployed over the web and gain better insight into your business. This how-to guide provides step by step instructions including screen captures to make it easier to design, build and optimize performance of the data warehouse or data mart. It is a 'must have' reference for database developers, administrators and IT professionals who want to get to work now with all of the newest features of Oracle Database 10g. It provides a detailed look at the new features of Oracle Database 10g and other Oracle products and how these are used in the data warehouse How to use the Summary Management features, including Materialized Views and query rewrite, to best effect to radically improve query performance How to deploy business intelligence to the Web to satisfy today's changing and demanding business requirements Using Oracle OLAP and Data Mining options How to understand the warehouse hardware environment and how it is used by new features in the database including how to implement a high availability warehouse environment Using the new management infrastructure in Oracle Database 10g and how this helps you to manage your warehouse environment

"This book should satisfy those who want a different perspective than the official Oracle documentation. It will cover all important aspects of a data warehouse while giving the necessary examples to make the reading a lively experience. - Tim Donar, Author and Systems Architect for Enterprise Data Warehouses

Tuning a data warehouse database focuses on large transactions, mostly requiring what is known as throughput. Throughput is the passing of large amounts of information through a server, network and Internet environment, backwards and forwards, constantly! The ultimate objective of a data warehouse is the production of meaningful and useful reporting, from historical and archived data. The trick is to make the reports print within an acceptable time frame. A data model contains tables and relationships between tables. Tuning a data model involves Normalization and Denormalization. Different approaches are required depending on the application, such as OLTP or a Data Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. * Takes users beyond basics to critical issues in running most efficient data warehouse applications * Illustrates how to keep data going in and out in the most productive way possible * Focus is placed on Data Warehouse performance tuning

The aim of the book is to lay the foundation in using the popular commercial tools for developing data warehouse in a very short time. With illustrative examples and case studies, the complete process of data warehouse development is explained using Informatica, Cognos, Business Objects and DataStage tools. In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

Practical Techniques for Extracting, Cleaning, Conforming, and Delivering Data

How to Plan and Implement

Design and Implementation

IBM Data Warehousing

With Examples in SQL Server

The Unified Star Schema: An Agile and Resilient Approach to Data Warehouse and Analytics Design

Explains the fundamentals of building a data warehouse and the techniques necessary for managing and converting data using the AS/400; evaluates ten data warehousing alternatives marketed by AS/400 vendors; and includes a CD-ROM with AS/400 demos. Original. (Intermediate).

This textbook covers all central activities of data warehousing and analytics, including transformation, preparation, aggregation, integration, and analysis. It discusses the full spectrum of the journey of data from operational/transactional databases, to data warehouses and data analytics; as well as the role that data warehousing plays in the data processing lifecycle. It also explains in detail how data warehouses may be used by data engines, such as BI tools and analytics algorithms to produce reports, dashboards, patterns, and other useful information and knowledge. The book is divided into six parts: "Part I - Star Schema" describes the foundation of data warehouse design. "Part II - Snowflake and Bridge Tables" then expands the concept of a simple star schema by introducing the concept of hierarchy, bridge tables, as well as the use of bridge tables in temporal data warehousing. "Part III - Advanced Dimensions" elaborates various dimension models, namely determinant dimensions, junk dimensions, dimension keys, and one-attribute dimensions, which all enrich the semantics of the star schema.

"Part IV - Multi-Fact and Multi-Input" introduces multi-fact star schemas, where the star schema has multi-fact entities. A multi-fact can also be created by slicing one fact into multi-facts, which is discussed next. Eventually the creation of a star schema is introduced where an operational database is used as input to the transformation process and consists of multiple operational databases. "Part V - Data Warehousing Granularity and Evolution" first introduces the concept of aggregation levels in a star schema constellation. It then focuses on the lowest-level star schema, including how to design a star schema and why it is needed in data warehousing, before moving on to methods for adding and removing dimensions. The remaining two chapters present more advanced concepts in data warehousing granularity and introduce the concept of active data warehousing. "Part VI - OLAP, Business Intelligence, and Data Analytics" thoroughly explains OLAP - online analytical processing, and describes two important activities in the data warehousing process, namely pre-data warehousing and post-data warehousing. The final chapter focuses on data analytics, which consists of a suite of methods for data analysis suitable for data warehousing. This textbook approaches data warehousing from the case study angle. Each chapter presents one or more case studies to thoroughly explain the concepts and has different levels of difficulty, hence learning is incremental. In addition, every chapter has also a section on further readings which give pointers and references to research papers related to the chapter. All these features make the book ideally suited for either introductory courses on data warehousing and data analytics, or even for self-studies by professionals. The book is accompanied by a web page that includes all the used datasets and codes as well as slides and solutions to exercises.

Illegitimate and outstepping protection, associated with every aspect of not controlling the illegal alien problem and the American borders. Taxes and the great problems enormous tax burdens cause for individuals, families, and business. Education: the good, the bad, and the ugly in America and its educational system. Teachers are getting ripped, the students are getting ripped, and so is the nation. Law and its negative effects on each one of us each and every day, no money no law for you. The end is the last chapter for America. If we do not take action in these areas, it will be the end for this country, as we know it today. Mr. and Mrs. Joe America must take action.

Rapid access to information is a prime requirement in any organization that wants to have a competitive edge in today's fast changing markets. How to retrieve information? How to capture data? How to format it? The answer lies in Data Warehousing. This HOTT Guide will give you access to all the essential information about the newest data storehouse: through articles by expert trendwatchers on strategic considerations, how-to reports defining the various ways to extract the data needed for critical business decisions, technical papers clarifying technologies and tools, business cases and key concepts that will provide the reader with a comprehensive overview of a business solution that is already indispensable.

Architecture and Implementation

Data Mining and Data Warehousing

DB2/400

Data Warehousing and Analytics

InfoWorld

with IBM Business Intelligence Tools

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.

An introductory guide for professionals and end-users of SAP and the Business Information Warehouse (BI) data warehouse, this book outlines SAP and BW features and functions, then discusses how to plan and implement a project. Complete information on ERP systems and the characteristics of SAP R/3 software are provided, as well as tips for avoiding common mistakes. The modular format allows users to move easily among chapters that cover SAP R/3 and BW topics.

This book constitutes the refereed proceedings of the 16th International Conference on Data Warehousing and Knowledge Discovery, DaWak 2014 held in Munich, Germany, September 2014, in conjunction with DEXA 2014. The 34 revised full papers and 8 short papers presented were carefully reviewed and selected from 109 submissions. The papers are organized in topical sections on modelling and ETL; ontology-based data warehouses; advanced data warehouses and OLAP; uncertainty; preferences and recommendation; query performance and HPC; cube & OLAP; optimization; classification; social networks and recommendation systems; knowledge data discovery; industrial applications; mining and processing data stream; mining and similarity.

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 theoretic!

Inside the AS/400

Data Warehousing Solutions on the As/400

Data Warehouse Systems

The Data Warehousing Handbook

The Data Warehouse Toolkit

Data Warehousing and Knowledge Discovery

What is the difference between \$79,000 and \$79? In data warehousing, it's the difference between buying expensive data warehousing software and buying a book that shows you how to implement do-it-yourself iSeries data warehousing. Rather than spend tons of money on DW software and maybe a second system, you can learn what you need by implementing an incremental data warehouse on your current iSeries with no additional software.

Principles and Practical Techniques

16th International Conference, DaWak 2014, Munich, Germany, September 2-4, 2014, Proceedings

Data Warehousing and the AS/400

SAP and BW Data Warehousing

Data Warehousing

Interactive Data Warehousing