Epub free Building a data warehouse Full PDF

Building the Data Warehouse Data Warehousing 101 Building a Data Warehouse Learn Data Warehousing in 24 Hours Data Mapping for Data Warehouse Design DW 2.0: The Architecture for the Next Generation of Data Warehousing Building the Data Warehouse Fundamentals of Data Warehouses Implementing a Data Warehouse The Data Warehouse Lifecycle Toolkit Building and Maintaining a Data Warehouse A Manager's Guide to Data Warehousing Data Warehousing For Dummies Data Warehousing in Action BUILDING THE DATA WAREHOUSE (4th Ed.) Data Warehouse Systems Data Warehouse Data Warehousing The Data Warehouse ETL Toolkit New Trends in Data Warehousing and Data Analysis The Data Warehouse Mentor: Practical Data Warehouse and Business Intelligence Insights Planning and Designing the Data Warehouse Data Warehousing Building a Scalable Data Warehouse with Data Vault 2.0 Data Warehousing Fundamentals The Modern Data Warehouse in Azure Building a Better Data Warehouse Advanced Data Warehouse Design Intelligent Data Warehousing Learn Data Warehousing in 1 Day Data Warehousing Fundamentals for IT Professionals Decision Support in the Data Warehouse Data Warehouse and Data Mining Filtering the Web to Feed Data Warehouses IBM Data Warehousing DATA WAREHOUSING The Microsoft Data Warehouse Toolkit Testing the Data Warehouse Practicum Data Warehousing For Dummies The Data Warehouse Toolkit

Building the Data Warehouse

2005-10-03

the new edition of the classic bestseller that launched thedata warehousing industry covers new approaches and technologies many of which have been pioneered by inmon himself in addition to explaining the fundamentals of data warehousesystems the book covers new topics such as methods for handlingunstructured data in a data warehouse and storing data acrossmultiple storage media discusses the pros and cons of relational versusmultidimensional design and how to measure return on investment inplanning data warehouse projects covers advanced topics including data monitoring andtesting although the book includes an extra 100 pages worth of valuablecontent the price has actually been reduced from 65 to 55

Data Warehousing 101

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

Building a Data Warehouse

2008-03-11

here is the ideal field guide for data warehousing implementation this book first teaches you how to build a data warehouse including defining the architecture understanding the methodology gathering the requirements designing the data models and creating the databases coverage then explains how to populate the data warehouse and explores 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 it also details testing and how to administer data warehouse operation

Learn Data Warehousing in 24 Hours

2020-09-15

unlike popular belief data warehouse is not a single tool but a collection of software tools a data warehouse will collect data from diverse sources into a single database using business intelligence tools meaningful insights are drawn from this data the best thing about learn data warehousing in 1 day is that it is small and can be completed in a day with this e book you will be enough knowledge to contribute and participate in a data warehouse implementation project the book covers upcoming and promising technologies like data lakes data mart elt extract load transform amongst others following are detailed topics included in the book table of content chapter 1 what is data warehouse 1 what is data warehouse 2 types of data warehouse 3 who needs data warehouse 4 why we need data warehouse 5 data warehouse tools chapter 2 data warehouse architecture 1 characteristics of data warehouse 2 data warehouse architectures 3 datawarehouse components 4 query tools chapter 3 etl process 1 what is etl 2 why do you need etl 3 etl process 4 etl tools chapter 4 etl vs elt 1 what is etl 2 difference between etl vs elt chapter 5 data modeling 1 what is data modelling 2 types of data models 3 characteristics of a physical data model chapter 6 olap 1 what is online analytical processing 2 types of olap systems 3 advantages and disadvantages of olap chapter 7 multidimensional olap molap 1 what is molap 2 molap architecture 3 molap tools chapter 8 olap vs oltp 1 what is the meaning of olap 2 what is the meaning of oltp 3 difference between oltp and olap chapter 9 dimensional modeling 1 what is dimensional model 2 elements of dimensional data model 3 attributes 4 difference between dimension table vs fact table 5 steps of dimensional modelling 6 rules for dimensional modelling chapter 10 star and snowflake schema 1 what is multidimensional schemas 2 what is a star schema 3 what is a snowflake schema 4 difference between start schema and snowflake chapter 11 data mart 1 what is data mart 2 type of data mart 3 steps in implementing a datamart chapter 12 data mart vs data warehouse 1 what is data warehouse 2 what is data mart 3 differences between a data warehouse and a data mart chapter 13 data lake 1 what is data lake 2 data lake architecture 3 key data lake concepts 4 maturity stages of data lake chapter 14 data lake vs data warehouse 1 what is data warehouse 2 what is data lake 3 key difference between the data lake and data warehouse chapter 15 what is business intelligence 1 what is business intelligence 2 why is bi important 3 how business intelligence systems are implemented 4 four types of bi users chapter 16 data mining 1 what is data mining 2 types of data 3 data mining process 4 modelling 5 data mining techniques chapter 17 data warehousing vs data mining 1 what is data warehouse 2 what is data mining 3 difference between data mining and data warehousing

Data Mapping for Data Warehouse Design

2015-12-08

data mapping in a data warehouse is the process of creating a link between two distinct data models source and target tables attributes data mapping is required at many stages of dw life cycle to help save processor overhead every stage has its own unique requirements and challenges therefore many data warehouse professionals want to learn data mapping in order to move from an etl extract transform and load data between databases developer to a data modeler role data mapping for data warehouse design provides basic and advanced knowledge about business intelligence and data warehouse concepts including real life scenarios that apply the standard techniques to projects across various domains after reading this book readers will understand the importance of data mapping across the data warehouse life cycle covers all stages of data warehousing and the role of data mapping in each includes a data mapping strategy and techniques that can be applied to many situations based on the author s years of real world experience designing solutions

DW 2.0: The Architecture for the Next Generation of Data Warehousing

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 the Data Warehouse

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

Fundamentals of Data Warehouses

2013-03-09

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 xxxxxx 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

Implementing a Data Warehouse

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

The Data Warehouse Lifecycle Toolkit

2011-03-08

a thorough update to the industry standard for designing developing and deploying data warehouse and business intelligence systems the world of data warehousing has changed remarkably since the first edition of the data warehouse lifecycle toolkit was published in 1998 in that time the data warehouse industry has reached full maturity and acceptance hardware and software have made staggering advances and the techniques promoted in the premiere edition of this book have been adopted by nearly all data warehouse vendors and practitioners in addition the term business intelligence emerged to reflect the mission of the data warehouse wrangling the data out of source systems cleaning it and delivering it to add value to the business ralph kimball and his colleagues have refined the original set of lifecycle methods and techniques based on their consulting and training experience the authors understand first hand that a data warehousing business intelligence dw bi system needs to change as fast as its surrounding organization evolves to that end they walk you through the detailed steps of designing developing and deploying a dw bi system you ll learn to create adaptable systems that deliver data and analyses to business users so they can make better business decisions

Building and Maintaining a Data Warehouse

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

A Manager's Guide to Data Warehousing

2009-06-24

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

Data Warehousing For Dummies

2009-04-13

data warehousing is one of the hottest business topics and there s more to understanding data warehousing technologies than you might think find out the basics of data warehousing and how it facilitates data mining and business intelligence with data warehousing for dummies 2nd edition data is probably your company s most important asset so your data warehouse should serve your needs the fully updated second edition of data warehousing for dummies helps you understand develop implement and use data warehouses and offers a sneak peek into their future you ll learn to analyze top down and bottom up data warehouse designs understand the structure and technologies of data warehouses operational data stores and data marts choose your project team and apply best development practices to your data warehousing projects implement a data warehouse step by step and involve end users in the process review and upgrade existing data storage to make it serve your needs comprehend olap column wise databases hardware assisted databases and middleware use data mining intelligently and find what you need make informed choices about consultants and data warehousing products data warehousing for dummies 2nd edition also shows you how to involve

users in the testing process and gain valuable feedback what it takes to successfully manage a data warehouse project and how to tell if your project is on track you ll find it s the most useful source of data on the topic

Data Warehousing in Action

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

BUILDING THE DATA WAREHOUSE (4th Ed.)

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

Data Warehouse Systems

2014-09-10

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 warehouse design and mdx and sql olap

subsequently part ii details implementation and deployment which includes physical data warehouse 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 databases and in memory databases 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 pentaho business analytics all chapters are summarized using review questions and exercises to support comprehensive student learning supplemental material to assist instructors using this book as a course text is available at cs ulb ac be dwsdibook 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 warehouses with key topics described in a clear and educational style

Data Warehouse

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

Data Warehousing

1999

please provide course information please provide

The Data Warehouse ETL Toolkit

2011-04-27

cowritten 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 load etl process delineates 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

New Trends in Data Warehousing and Data Analysis

2008-10-23

most of modern enterprises institutions and organizations rely on knowledge based management systems in these systems knowledge is gained from data analysis today knowledge based management systems include data warehouses as their core components data integrated in a data warehouse are analyzed by the so called on line analytical processing olap applications designed to discover trends patterns of behavior and anomalies as well as finding dependencies between data massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging new trends in data warehousing and data analysis brings together the most recent research and practical achievements in the dw and olap technologies it provides an up to date bibliography of published works and the resource of research achievements finally the book assists in the dissemination of knowledge in the field of advanced dw and olap

The Data Warehouse Mentor: Practical Data Warehouse and Business Intelligence Insights

2011-05-12

develop a custom agile data warehousing and business intelligence architecture empower your users and drive better decision making across your enterprise with detailed instructions and best practices from an expert developer and trainer the data warehouse mentor practical data warehouse and business intelligence insights shows how to plan design construct and administer an integrated end to end dw bi solution learn how to choose appropriate components build an enterprise data model configure data marts and data warehouses establish data flow and mitigate risk change management data governance and security are also covered in this comprehensive guide understand the components of bi and data warehouse systems establish project goals and implement an effective deployment plan build accurate logical and physical enterprise data models gain insight into your

company s transactions with data mining input cleanse and normalize data using etl extract transform and load techniques use structured input files to define data requirements employ top down bottom up and hybrid design methodologies handle security and optimize performance using data governance tools robert laberge is the founder of several internet ventures and a principle consultant for the ibm industry models and assets lab which has a focus on data warehousing and business intelligence solutions

Planning and Designing the Data Warehouse

1997

this is a comprehensive survey of key issues associated with planning and designing enterprise data warehouses covers the process of implementing a data warehouse end to end from planning a data warehouse to achieving management support to implementing metadata repositories that make it easier to access real information rather than mere data one chapter is dedicated to helping managers avoid mistakes that can limit the effectiveness of a data warehouse once the data warehouse is in place this book provides guidance on helping end users make the most of it two detailed case studies are also included information technology managers and database professionals including administrators programmers and designers

Data Warehousing

2001

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

Building a Scalable Data Warehouse with Data Vault 2.0

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 Warehousing Fundamentals

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

The Modern Data Warehouse in Azure

2020-06-15

build a modern data warehouse on microsoft s azure platform that is flexible adaptable and fast fast to snap together reconfigure and fast at delivering results to drive good decision making in your business gone are the days when data warehousing projects were lumbering dinosaur style projects that took forever drained budgets and produced business intelligence bi just in time to tell you what to do 10 years ago this book will show you how to assemble a data warehouse solution like a jigsaw puzzle by connecting specific azure technologies that address your own needs and bring value to your business you will see how to implement a range of architectural patterns using batches events and streams for both data lake technology and sql databases you will discover how to manage metadata

and automation to accelerate the development of your warehouse while establishing resilience at every level and you will know how to feed downstream analytic solutions such as power bi and azure analysis services to empower data driven decision making that drives your business forward toward a pattern of success this book teaches you how to employ the azure platform in a strategy to dramatically improve implementation speed and flexibility of data warehousing systems you will know how to make correct decisions in design architecture and infrastructure such as choosing which type of sql engine from at least three options best meets the needs of your organization you also will learn about etl elt structure and the vast number of accelerators and patterns that can be used to aid implementation and ensure resilience data warehouse developers and architects will find this book a tremendous resource for moving their skills into the future through cloud based implementations what you will learnchoose the appropriate azure sql engine for implementing a given data warehouse develop smart reusable etl elt processes that are resilient and easily maintained automate mundane development tasks through tools such as powershell ensure consistency of data by creating and enforcing data contracts explore streaming and event driven architectures for data ingestioncreate advanced staging layers using azure data lake gen 2 to feed your data warehouse who this book is for data warehouse or etl elt developers who wish to implement a data warehouse project in the azure cloud and developers currently working in on premise environments who want to move to the cloud and for developers with azure experience looking to tighten up their implementation and consolidate their knowledge

Building a Better Data Warehouse

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

Advanced Data Warehouse Design

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

Intelligent Data Warehousing

2001-12-13

effective decision support systems dss are quickly becoming key to businesses gaining a competitive advantage and the effectiveness of these systems depends on the ability to construct maintain and extract information from data warehouses while many still perceive data warehousing as a subdiscipline of management information systems mis in fact many of its advances have and will continue to come from the computer science arena intelligent data warehousing presents the state of the art in data warehousing research and practice from a perspective that integrates business applications and computer science it brings the intelligent techniques associated with artificial intelligence ai to the entire process of data warehousing including data preparation storage and mining part i provides an overview of the main ideas and fundamentals of data mining artificial intelligence business intelligence and data warehousing part ii presents core materials on data warehousing and part iii explores data analysis and knowledge discovery in the data warehousing environment including how to perform intelligent data analysis and the discovery of influential association patterns bridging the gap between theoretical research and business applications this book summarizes the main ideas behind recent research developments rather than setting forth technical details and it presents case studies that show the how to s of implementing these ideas the result is a practical first of its kind book that brings together scattered research unites mis with computer science and melds intelligent techniques with data warehousing

Learn Data Warehousing in 1 Day

2018-02-15

unlike popular belief data warehouse is not a single tool but a collection of software tools a data warehouse will collect data from diverse sources into a single database using business intelligence tools meaningful insights are drawn from this data the best thing about learn data warehousing in 1 day is that it is small and can be completed in a day with this e book you will be enough knowledge to contribute and participate in a data warehouse implementation project the book covers upcoming and promising technologies like data lakes data mart elt extract load transform amongst others following are detailed topics included in the book table content chapter 1 what is data warehouse what is data warehouse types of data warehouse who needs data warehouse why we need data warehouse data warehouse tools chapter 2 data warehouse architecture characteristics of data warehouse data warehouse architectures datawarehouse components query tools chapter 3 etl process

what is etl why do you need etl etl process etl tools chapter 4 etl vs elt what is etl difference between etl vs elt chapter 5 data modeling what is data modelling types of data models characteristics of a physical data model chapter 6 olap what is online analytical processing types of olap systems advantages and disadvantages of olap chapter 7 multidimensional olap molap what is molap molap architecture molap tools chapter 8 olap vs oltp what is the meaning of olap what is the meaning of oltp difference between oltp and olap chapter 9 dimensional modeling what is dimensional model elements of dimensional data model attributes difference between dimension table vs fact table steps of dimensional modelling rules for dimensional modelling chapter 10 star and snowflake schema what is multidimensional schemas what is a star schema what is a snowflake schema difference between start schema and snowflake chapter 11 data mart what is data mart type of data mart steps in implementing a datamart chapter 12 data mart vs data warehouse what is data warehouse what is data mart differences between a data warehouse and a data mart chapter 13 data lake what is data lake data lake architecture key data lake concepts maturity stages of data lake chapter 14 data lake vs data warehouse what is data warehouse what is data lake key difference between the data lake and data warehouse chapter 15 what is business intelligence what is business intelligence why is bi important how business intelligence systems are implemented four types of bi users chapter 16 data mining what is data mining types of data data mining process modelling

Data Warehousing Fundamentals for IT Professionals

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 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

Decision Support in the Data Warehouse

1998

most data warehousing books provide little information about the applications or tools that deliver the business value that the data warehouse provides the title includes a comprehensive survey of tools and technologies available today this book explores decision support in a data warehousing environment focus is on building front end decision support systems

Data Warehouse and Data Mining

2024-01-25

unveiling insights unleashing potential navigating the depths of data warehousing and mining for a data driven tomorrow key features explore concepts ranging from fundamentals to advanced techniques of data warehouses and data mining translate business questions into actionable strategies to make informed decisions gain practical implementation guidance for hands on learning description data warehouse and data mining are essential technologies in the field of data analysis and business intelligence data warehouse provides a centralized repository of structured data and facilitates data storage and retrieval data mining on the other hand utilizes various algorithms and techniques to extract valuable patterns trends and insights from large datasets the book explains the ins and outs of data warehousing by discussing its principles benefits and components differentiating it from traditional databases the readers will explore warehouse architecture learn to navigate oltp and olap systems grasping the crux of the difference between rolap and molap the book is designed to help you discover data mining secrets with techniques like classification and clustering you will be able to advance your skills by handling multimedia time series and text staying ahead in the evolving data mining landscape by the end of this book you will be equipped with the skills and knowledge to confidently translate business questions into actionable strategies extracting valuable insights for informed decisions what you will learn designing and building efficient data warehouses handling diverse data types for comprehensive insights mastering various data mining techniques translating business questions into mining strategies techniques for pattern discovery and knowledge extraction who this book is for from aspiring data analysts data professionals it managers to business intelligence

practitioners this book caters to a diverse audience table of contents 1 introduction to data warehousing 2 data warehouse process and architecture 3 data warehouse implementation 4 data mining definition and task 5 data mining query languages 6 data mining techniques 7 mining complex data objects

Filtering the Web to Feed Data Warehouses

2011-06-28

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 to feed data warehouses discusses areas such as how to use data warehouse for filtering content how to retrieve relevant information from diverse sources on the 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

IBM Data Warehousing

2003-02-25

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 site includes technical notes product updates corrections and links to relevant material and training

DATA WAREHOUSING

2008-08-25

the third edition of this well received text analyses the fundamental concepts of data warehousing data marts and olap the author discusses in an easy to understand language important topics such as

data mining how to build a data warehouse and potential applications of data warehousing technology in government besides the text compares and contrasts the currently available software tools used to design and develop data warehouses while retaining the six existing case studies it gives four new case studies harbor a highly available data warehouse a typical business data warehouse for a trading company customer data warehouse for the world s first and largest online bank in the united kingdom a german supermarket edeka s data warehouse the book which is a blend of principles and real life case studies is intended as a text for students of b tech m tech computer science and engineering b tech m tech information technology mba m sc computer science m sc information technology and mca it should also be of considerable utility and worth to software professionals and database practitioners

The Microsoft Data Warehouse Toolkit

2007-12-10

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

Testing the Data Warehouse Practicum

2012-08

the quality of a data warehouse dwh is the elusive aspect of it not because it is hard to achieve once we agree what it is but because it is difficult to describe we propose the notion that quality is not an attribute or a feature that a product has to possess but rather a relationship between that product and

each and every stakeholder more specifically the relationship between the software quality and the organization that produces the products is explored quality of data that populates the dwh is the main concern of the book therefore we propose a definition for data quality as fitness to serve each and every purpose methods are proposed throughout the book to help readers achieve data warehouse quality

Data Warehousing For Dummies

1997-11-27

this text provides database managers with guidelines for designing and maintaining a data warehouse it covers the relationship between a data warehouse and existing systems being used in a company it seeks to enable a smooth transition from outdated systems into modern data warehouses

The Data Warehouse Toolkit

1996-02-16

one of the definitive books of our industry if you take the time to read only one professional book make it this book w h inmon one of the most dramatic new developments in database design the dimensional data warehouse is a powerful database model that significantly enhances managers ability to quickly analyze large multidimensional data sets written by the leading proponent of this revolutionary new approach this valuable book cd toolkit outfits you with all the nuts and bolts information you need to design build manage and use dimensional data warehouses for virtually any type of business application as well as software for querying dimensional data warehouses employing many real life case studies of data warehouses ralph kimball provides clear cut guidelines on how to model data and design data warehouses to support advanced multidimensional decision support systems beginning with the relatively simple example of a data warehouse for a grocery store he progresses step by step through an increasingly complex array of business applications in retail manufacturing banking insurance subscriptions and airline reservations by the end of the book you will have mastered the full range of powerful techniques for creating controlling and navigating dimensional business databases that are easy to understand and navigate on the cd rom you ll find software for querying dimensional data warehouses working models of all the databases described in the book

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