

Epub free Implement a data warehouse with microsoft sql server (2023)

Building the Data Warehouse Learn Data Warehousing in 24 Hours Data Warehousing 101 Building the Data Warehouse Building a Data Warehouse Data Warehousing in Action Data Warehousing Fundamentals for IT Professionals The Data Warehouse Lifecycle Toolkit A Manager's Guide to Data Warehousing Data Warehouse Systems Data Mapping for Data Warehouse Design DW 2.0: The Architecture for the Next Generation of Data Warehousing Fundamentals of Data Warehouses Data Warehousing Olap And Data Mining Data Warehousing For Dummies Implementing a Data Warehouse The Data Warehouse ETL Toolkit New Trends in Data Warehousing and Data Analysis Building and Maintaining a Data Warehouse Data Warehousing Data Warehousing and Analytics Building a Scalable Data Warehouse with Data Vault 2.0 Data Warehousing Fundamentals Filtering the Web to Feed Data Warehouses Data Warehouse and Data Mining The Data Warehouse Mentor: Practical Data Warehouse and Business Intelligence Insights Learn Data Warehousing in 1 Day Data Warehouse Designing a Data Warehouse The Data Warehouse Lifecycle Toolkit Testing the Data Warehouse Practicum Building a Data Warehouse for Decision Support Implementing Enterprise Data Warehousing Intelligent Data Warehousing Big Data Imperatives Strategic Data Warehousing DATA WAREHOUSING Advanced Data Warehouse Design Data Warehouse Design Solutions Kimball's Data Warehouse Toolkit Classics

Building the Data Warehouse 2005-10-03 the new edition of the classic bestseller that launched the data warehousing industry covers new approaches and technologies many of which have been pioneered by inmon himself in addition to explaining the fundamentals of data warehouse systems the book covers new topics such as methods for handling unstructured data in a data warehouse and storing data across multiple storage media discusses the pros and cons of relational versus multidimensional design and how to measure return on investment in planning data warehouse projects covers advanced topics including data monitoring and testing although the book includes an extra 100 pages worth of valuable content the price has actually been reduced from 65 to 55

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 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 data warehouse 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 star schema and snowflake chapter 11 data mart 1 what is data mart 2 type of data mart 3 steps in implementing a data mart 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 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 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 with inmon's building the data warehouse has been the bible of data warehousing it is the book that launched the data warehousing industry and it remains the preeminent introduction to the subject this new edition covers the latest developments with this technology many of which have been pioneered by inmon himself book jacket

Building 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

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

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

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

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 Warehouse Systems 2022-08-16 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 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

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

Fundamentals of Data Warehouses 2013-03-09 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

Data Warehousing Olap And Data Mining 2006 this book is mainly intended for it students and professionals to learn or implement data warehousing technologies it experiences the real time environment and promotes planning managing designing implementing supporting maintaining and analyzing data warehouse in organizations and it also provides various mining techniques as well as issues in practical use of data mining tools the book is designed for the target audience such as specialists trainers and it users it does not assume any special knowledge as background understanding of computer use databases and statistics will be helpful

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

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 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 2008-11-21 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

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 theoretical

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

Data Warehousing and Analytics 2022-02-04 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 ranging from the basics of data warehouse design part i star schema part ii snowflake and bridge tables part iii advanced dimensions and part iv multi fact and multi input to more advanced data warehousing concepts part v data warehousing and evolution and data analytics part vi olap bi and analytics 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

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 2006-07 market desc it professionals undergraduate students specializing in information technology consultants special features includes review questions and exercises filled with industry examples the author has 25 years of experience in it specializing in data warehousing about the book 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 this book covers the fundamentals of data warehousing specifically for the it professionals who wants to get into the field

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

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

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

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 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

Designing a Data Warehouse 2001 please provide course information please provide

The Data Warehouse Lifecycle Toolkit 1998-08-27 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

Testing the Data Warehouse Practicum 2012-08-22 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

Building a Data Warehouse for Decision Support 1998 completely revised expanded and updated this second edition gives extensive new coverage of data integration management indexing cleansing and transformation the book covers powerful new multi dimensional front ends and conversion tools and gives detailed coverage of lifecycle issues

Implementing Enterprise Data Warehousing 2007-08-01 designing complex analytical data structures is difficult enough but to do it for an entire enterprise becomes a real challenge this little primer provides a simple method of preparing your people for the complexity of this endeavor this is just like opening a new restaurant where certain components have to be designed and thought out before you start to build the kitchen you do not have to be an expert to build a data warehouse a lot can be outsourced but you do need to be able to create your own plan according to your culture's specific requirements some cultures take more informing and training than others the pace and aggressiveness with which you unfold your plan is something that you understand best this primer defines the data warehouse components and helps you decide when they can be done in what order and by how many people

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

Big Data Imperatives 2013-06-24 big data imperatives focuses on resolving the key questions on everyone's mind which data matters do you have enough data volume to justify the usage how you want to process this amount of data how long do you really need to keep it active for your analysis marketing and bi applications big data is emerging from the realm of one off projects to mainstream business adoption however the real value of big data is not in the overwhelming size of it but more in its effective use big data imperatives describes the complementary nature of traditional data warehouses and big data analytics platforms and how they feed each other this book aims to bring the big data and analytics realms together with a greater focus on architectures that leverage the scale and power of big data and the ability to integrate and apply analytics principles to data which earlier was not accessible this book can also be used as a handbook for practitioners helping them on methodology technical architecture analytics techniques and best practices at the same time this book intends to hold the interest of those new to big data and analytics by giving them a deep insight into the realm of big data

Strategic Data Warehousing 2009-07-29 organization of data warehouses is a vital but often neglected aspect of growing an enterprise unlike most books on the subject that focus on either the technical aspects of building data warehouses or on business strategies this valuable reference synthesizes technological know how with managerial best practices to show how improved alignment between data warehouse plans and business strategies can lead to successful data warehouse adoption capable of supporting an enterprise's entire infrastructure strategic data warehousing achieving alignment with business provides data warehouse developers business managers and it professionals and administrators with an integrated approach to achieving successful and sustainable alignment of data warehouses

and business goals more complete than any other text in the field this comprehensive reference details the joint roles and responsibilities of the data warehouse and business managers in achieving strategic alignment business user satisfaction technical integration and improved flexibility complete with case studies that depict real world scenarios the text examines the organizational user data and technological factors proven to promote successful data warehousing includes actionable solutions for achieving strategic alignment provides a model that readers can apply in aligning their own data warehouse needs and business goals achieving sustainable alignment between the data warehouse and business strategies is a continuous process armed with this valuable reference readers will be able to gain the solid understanding of the organizational technical data and user factors needed to promote a successful data warehouse adoption and become active partners in leveraging this powerful but often overlooked information resource

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

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

Data Warehouse Design Solutions 1998-07-13 each chapter is a practice run for the way we all ought to design our data marts and hence our data warehouses ralph kimball from the foreword let the experts show you how to customize data warehouse designs for real business needs in data warehouse design solutions to effectively design a data warehouse you have to understand its many business uses this guidebook shows you how business managers in different corporate functions actually use data warehouses to make decisions you'll get a rich set of data warehouse designs that flow from realistic business cases two top experts show you how to customize your data warehouse designs for real life business needs including sales and marketing production and inventory management budgeting and financial reporting quality control product delivery and fulfillment strategic business analysis such as determining market share rates of return on investment and other key analytic ratios cd rom includes all sample data warehouse designs with accompanying preformatted reports in html for specific business uses such as marketing sales and financial analysis

Kimball's Data Warehouse Toolkit Classics 2009-04-06 cowritten by ralph kimball the world's leading data warehousing authority 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 this book is also available as part of the kimball's data warehouse toolkit classics box set isbn 9780470479575 with the following 3 books the data warehouse toolkit 2nd edition 9780471200246 the data warehouse lifecycle toolkit 2nd edition 9780470149775 the data warehouse etl toolkit 9780764567575

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