

Teradata Physical Database Design

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Data Warehouses and OLAP - Robert Wrembel
2007-01-01

Data warehouses and online analytical processing (OLAP) are emerging key technologies for enterprise decision support systems. They provide sophisticated technologies from data integration, data collection and retrieval, query optimization, and data analysis to advanced user interfaces. New research and technological achievements in the area of data warehousing are implemented in commercial database management systems, and organizations are developing data warehouse systems into their information system infrastructures. *Data Warehouses and OLAP: Concepts, Architectures and Solutions* covers a wide range of technical, technological, and research issues. It provides theoretical frameworks, presents challenges and their possible solutions, and examines the latest empirical research findings in the area. It is a resource of possible solutions and technologies that can be applied when designing, implementing, and deploying a data warehouse, and assists in the dissemination of knowledge in this field.

Introduction to Data Platforms - Anthony David Giordano 2022-11-03

Digital, cloud, and artificial intelligence (AI) have disrupted how we use data. This disruption has changed the way we need to provision, curate, and publish data for the multiple use cases in today's technology-driven environment. This text will cover how to design, develop, and evolve a data platform for all the uses of enterprise data needed in today's digital organization. This book focuses on explaining

what a data platform is, what value it provides, how is it engineered, and how to deploy a data platform and support organization. In this context, *Introduction to Data Platforms* reviews the current requirements for data in the digital age and quantifies the use cases; discusses the evolution of data over the past twenty years, which is a core driver of the modern data platform; defines what a data platform is and defines the architectural components and layers of a data platform; provides the architectural layers or capabilities of a data platform; reviews cloud- and commercial-software vendors that populate the data-platform space; provides a step-by-step approach to engineering, deploying, supporting, and evolving a data-platform environment; provides a step-by-step approach to migrating legacy data warehouses, data marts, and data lakes/sandboxes to a data platform; and reviews organizational structures for managing data platform environments.

Physical Database Design in Multiprocessor Database Systems - Shahram Ghandeharizadeh 1990

Abstract: "In shared-nothing multiprocessor database machines, relations are horizontally declustered across multiple processors in order to obtain a lower response time and a higher throughput from the system. Several alternative strategies exist for horizontally declustering a relation. However, the performance tradeoffs of these declustering strategies with respect to the different storage and access structures have not been previously examined. Thus, a database administrator for such a system has no choice but to guess how many processors a relation should be clustered across and what

declustering strategy is most appropriate
Database Systems - S. K. Singh 2011

The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application. It progresses gradually from basic to advanced concepts in database management systems, with numerous solved exercises to make learning easier and interesting. New to this edition are discussions on more commercial database management systems.

Advanced Database Systems - Peter M.D. Gray 1992-06-24

The theme of this book is the potential of new advanced database systems. The volume presents the proceedings of the 10th British National Conference on Databases, held in Aberdeen, Scotland, in July 1992. The volume contains two invited papers, one on the promise of distributed computing and the challenges of legacy systems by M.L. Brodie, and the other on object-oriented requirements capture and analysis and the Orca project by D.J.L. Gradwell. The following four parts each contain three submitted papers selected from a total of 36 submissions. The parts are entitled: - Object-oriented databases - Parallel implementations and industrial systems - Non-relational data models - Logic programming and databases

Trino: The Definitive Guide - Matt Fuller 2021-04-14

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other companies. Matt Fuller, Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from multiple sources to allow for analytics across your entire organization. Get started: Explore Trino's use cases and learn about tools that will help you connect to Trino and query data Go deeper:

Learn Trino's internal workings, including how to connect to and query data sources with support for SQL statements, operators, functions, and more Put Trino in production: Secure Trino, monitor workloads, tune queries, and connect more applications; learn how other organizations apply Trino

Computerworld - 2002-04-15

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

The Design and Implementation of Modern Column-Oriented Database Systems - Daniel Abadi 2013

The Design and Implementation of Modern Column-Oriented Database Systems discusses modern column-stores, their architecture and evolution as well the benefits they can bring in data analytics.

Corporate Information Factory - W. H. Inmon 2002-03-14

The "father of data warehousing" incorporates the latest technologies into his blueprint for integrated decision support systems Today's corporate IT and data warehouse managers are required to make a small army of technologies work together to ensure fast and accurate information for business managers. Bill Inmon created the Corporate Information Factory to solve the needs of these managers. Since the First Edition, the design of the factory has grown and changed dramatically. This Second Edition, revised and expanded by 40% with five new chapters, incorporates these changes. This step-by-step guide will enable readers to connect their legacy systems with the data warehouse and deal with a host of new and changing technologies, including Web access mechanisms, e-commerce systems, ERP (Enterprise Resource Planning) systems. The book also looks closely at exploration and data mining servers for analyzing customer behavior and departmental data marts for finance, sales, and marketing.

Database Modeling and Design - Toby J. Teorey 1999

This work has been revised and updated to provide a comprehensive treatment of database design for commercial database products and their applications. The book covers the basic foundation of design as well as more advanced techniques, and also incorporates coverage of data warehousing and OLAP (On-Line Analytical Processing), data mining, object-relational, multimedia, and temporal/spatial design.

Algorithms and Architectures for Parallel Processing, Part I - Yang Xiang 2011-10-07

This two volume set LNCS 7016 and LNCS 7017 constitutes the refereed proceedings of the 11th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2011, held in Melbourne, Australia, in October 2011. The first volume presents 24 revised regular papers and 17 revised short papers together with the abstract of the keynote lecture - all carefully reviewed and selected from 85 initial submissions. The papers cover the many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental results, and commercial components and systems and focus on two broad areas of parallel and distributed computing, i.e., architectures, algorithms and networks, and systems and applications.

InfoWorld - 2003-02-03

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

Teradata Cookbook - Abhinav Khandelwal 2018-02-15

Data management and analytics simplified with Teradata Key Features Take your understanding of Teradata to the next level and build efficient data warehousing applications for your organization Covers recipes on data handling, warehousing, advanced querying and the administrative tasks in Teradata. Contains practical solutions to tackle common (and not-so-common) problems you might encounter in your day to day activities Book Description Teradata is an enterprise software company that develops and sells its eponymous relational database management system (RDBMS), which is considered to be a leading data warehousing solutions and provides data management

solutions for analytics. This book will help you get all the practical information you need for the creation and implementation of your data warehousing solution using Teradata. The book begins with recipes on quickly setting up a development environment so you can work with different types of data structuring and manipulation function. You will tackle all problems related to efficient querying, stored procedure searching, and navigation techniques. Additionally, you'll master various administrative tasks such as user and security management, workload management, high availability, performance tuning, and monitoring. This book is designed to take you through the best practices of performing the real daily tasks of a Teradata DBA, and will help you tackle any problem you might encounter in the process. What you will learn Understand Teradata's competitive advantage over other RDBMSs. Use SQL to process data stored in Teradata tables. Leverage Teradata's available application utilities and parallelism to play with large datasets Apply various performance tuning techniques to optimize the queries. Acquire deeper knowledge and understanding of the Teradata Architecture. Easy steps to load, archive, restore data and implement Teradata protection features Gain confidence in running a wide variety of Data analytics and develop applications for the Teradata environment Who this book is for This book is for Database administrator's and Teradata users who are looking for a practical, one-stop resource to solve all their problems while handling their Teradata solution. If you are looking to learn the basic as well as the advanced tasks involved in Teradata querying or administration, this book will be handy. Some knowledge of relational database concepts will be helpful to get the best out of this book.

Accelerating Customer Relationships - Ronald S. Swift 2001

Preface Corporations that achieve high customer retention and high customer profitability aim for: The right product (or service), to the right customer, at the right price, at the right time, through the right channel, to satisfy the customer's need or desire. Information Technology—in the form of sophisticated databases fed by electronic commerce, point-of-

sale devices, ATMs, and other customer touch points—is changing the roles of marketing and managing customers. Information and knowledge bases abound and are being leveraged to drive new profitability and manage changing relationships with customers. The creation of knowledge bases, sometimes called data warehouses or Info-Structures, provides profitable opportunities for business managers to define and analyze their customers' behavior to develop and better manage short- and long-term relationships. Relationship Technology will become the new norm for the use of information and customer knowledge bases to forge more meaningful relationships. This will be accomplished through advanced technology, processes centered on the customers and channels, as well as methodologies and software combined to affect the behaviors of organizations (internally) and their customers/channels (externally). We are quickly moving from Information Technology to Relationship Technology. The positive effect will be astounding and highly profitable for those that also foster CRM. At the turn of the century, merchants and bankers knew their customers; they lived in the same neighborhoods and understood the individual shopping and banking needs of each of their customers. They practiced the purest form of Customer Relationship Management (CRM). With mass merchandising and franchising, customer relationships became distant. As the new millennium begins, companies are beginning to leverage IT to return to the CRM principles of the neighborhood store and bank. The customer should be the primary focus for most organizations. Yet customer information in a form suitable for marketing or management purposes either is not available, or becomes available long after a market opportunity passes, therefore CRM opportunities are lost. Understanding customers today is accomplished by maintaining and acting on historical and very detailed data, obtained from numerous computing and point-of-contact devices. The data is merged, enriched, and transformed into meaningful information in a specialized database. In a world of powerful computers, personal software applications, and easy-to-use analytical end-user software tools, managers

have the power to segment and directly address marketing opportunities through well managed processes and marketing strategies. This book is written for business executives and managers interested in gaining advantage by using advanced customer information and marketing process techniques. Managers charged with managing and enhancing relationships with their customers will find this book a profitable guide for many years. Many of today's managers are also charged with cutting the cost of sales to increase profitability. All managers need to identify and focus on those customers who are the most profitable, while, possibly, withdrawing from supporting customers who are unprofitable. The goal of this book is to help you: identify actions to categorize and address your customers much more effectively through the use of information and technology, define the benefits of knowing customers more intimately, and show how you can use information to increase turnover/revenues, satisfaction, and profitability. The level of detailed information that companies can build about a single customer now enables them to market through knowledge-based relationships. By defining processes and providing activities, this book will accelerate your CRM "learning curve," and provide an effective framework that will enable your organization to tap into the best practices and experiences of CRM-driven companies (in Chapter 14). In Chapter 6, you will have the opportunity to learn how to (in less than 100 days) start or advance, your customer database or data warehouse environment. This book also provides a wider managerial perspective on the implications of obtaining better information about the whole business. The customer-centric knowledge-based info-structure changes the way that companies do business, and it is likely to alter the structure of the organization, the way it is staffed, and, even, how its management and employees behave. Organizational changes affect the way the marketing department works and the way that it is perceived within the organization. Effective communications with prospects, customers, alliance partners, competitors, the media, and through individualized feedback mechanisms creates a whole new image for marketing and new opportunities for marketing successes. Chapter

14 provides examples of companies that have transformed their marketing principles into CRM practices and are engaging more and more customers in long-term satisfaction and higher per-customer profitability. In the title of this book and throughout its pages I have used the phrase "Relationship Technologies" to describe the increasingly sophisticated data warehousing and business intelligence technologies that are helping companies create lasting customer relationships, therefore improving business performance. I want to acknowledge that this phrase was created and protected by NCR Corporation and I use this trademark throughout this book with the company's permission. Special thanks and credit for developing the Relationship Technologies concept goes to Dr. Stephen Emmott of NCR's acclaimed Knowledge Lab in London. As time marches on, there is an ever-increasing velocity with which we communicate, interact, position, and involve our selves and our customers in relationships. To increase your Return on Investment (ROI), the right information and relationship technologies are critical for effective Customer Relationship Management. It is now possible to: know who your customers are and who your best customers are stimulate what they buy or know what they won't buy time when and how they buy learn customers' preferences and make them loyal customers define characteristics that make up a great/profitable customer model channels are best to address a customer's needs predict what they may or will buy in the future keep your best customers for many years This book features many companies using CRM, decision-support, marketing databases, and data-warehousing techniques to achieve a positive ROI, using customer-centric knowledge-bases. Success begins with understanding the scope and processes involved in true CRM and then initiating appropriate actions to create and move forward into the future. Walking the talk differentiates the perennial ongoing winners. Reinvestment in success generates growth and opportunity. Success is in our ability to learn from the past, adopt new ideas and actions in the present, and to challenge the future. Respectfully, Ronald S. Swift Dallas, Texas June 2000

Enterprise Data Architecture: How to

navigate its landscape - Dave Knifton
2014-10-16

Are you looking to make better use of data captured within your organisation or want to learn more about how Data Architecture can transform your operations? Answering these questions is at the very heart of Navigating the Data Architecture Landscape. By reading this book you will learn how to: Introduce or improve the Data Architecture function of your organisation Enhance your skills in this domain to deliver more from your data. You may be wondering how a book can do this if it knows nothing about where you are now, or where you want to be? It can, because by leveraging its principles you will discover how to create optimised potential routes to achieve your own Data Architectural objectives. Basic building blocks, concepts and models are defined, enabling you to create new or adapt existing frameworks appropriate for any data landscape. Practical tips and suggestions are also detailed throughout, helping you gain immediate improvements from the way you work and enhance the benefits your organisation can derive from its data. So if you are a Data Architect or deal with data in your organisation and want to learn how to transform the positive yield from its data, then this book is a must read for you! "David has been there and dealt with the issues, which is why this book is an outstanding resource for Data Architects and indeed anyone dealing with the serious challenges of an enterprise data landscape." - Richard Rendell, Technical Services Director, AgeSmart "An essential read for anyone wishing to practically achieve more benefit from data for their organisation within today's constraints." - Reem Zahran - Director, Offering Development, IMS Health "This book provides a comprehensive set of tools enabling you to improve the business outcomes from your organisation's use of data." - Andrew Rowland, Global Head Database Engineering, UBS This book is an essential read for Data Architects or indeed anyone wanting to improve the benefit that their organisation can derive from its data usage. It does this by providing principles and models that are appropriate to use within any framework, or even the absence of one. The book is designed to be practical and contains

many tips and suggestions as well as examples that can be used as the basis for the reader's own Data Architectural definitions. The breadth of the book covers contemporary themes for Data Architecture and the chapters include; Data Modelling, Enterprise Data Models, Data Governance, Master Data Management and Big Data

Mastering Data Warehouse Design - Claudia Imhoff 2003-08-19

A cutting-edge response to Ralph Kimball's challenge to the data warehouse community that answers some tough questions about the effectiveness of the relational approach to data warehousing. Written by one of the best-known exponents of the Bill Inmon approach to data warehousing. Addresses head-on the tough issues raised by Kimball and explains how to choose the best modeling technique for solving common data warehouse design problems. Weighs the pros and cons of relational vs.

dimensional modeling techniques. Focuses on tough modeling problems, including creating and maintaining keys and modeling calendars, hierarchies, transactions, and data quality.

Database and Expert Systems Applications - Stephen W. Liddle 2012-08-18

This two volume set LNCS 7446 and LNCS 7447 constitutes the refereed proceedings of the 23rd International Conference on Database and Expert Systems Applications, DEXA 2012, held in Vienna, Austria, September 3-6, 2012. The 49 revised full papers presented together with 37 short papers and 2 keynote talks were carefully reviewed and selected from 179 submissions.

These papers discuss a range of topics including: database query processing, in particular XML queries; labelling of XML documents; computational efficiency, data extraction; personalization, preferences, and ranking; security and privacy; database schema evaluation and evolution; semantic Web; privacy and provenance; data mining; data streaming; distributed systems; searching and query answering; structuring, compression and optimization; failure, fault analysis, and uncertainty; predication, extraction, and annotation; ranking and personalisation; database partitioning and performance measurement; recommendation and prediction systems; business processes; social networking.

Contemporary Issues in Database Design and Information Systems Development - Siau, Keng 2007-04-30

"This book presents the latest research ideas and topics on databases and software development. It provides a representation of top notch research in all areas of database and information systems development"--Provided by publisher.

Rapid Automation: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2019-03-01
Through expanded intelligence, the use of robotics has fundamentally transformed the business industry. Providing successful techniques in robotic design allows for increased autonomous mobility, which leads to a greater productivity and production level. Rapid Automation: Concepts, Methodologies, Tools, and Applications provides innovative insights into the state-of-the-art technologies in the design and development of robotics and their real-world applications in business processes. Highlighting a range of topics such as workflow automation tools, human-computer interaction, and swarm robotics, this multi-volume book is ideally designed for computer engineers, business managers, robotic developers, business and IT professionals, academicians, and researchers.

High-Performance Web Databases - Sanjiv Purba 2000-09-21

As Web-based systems and e-commerce carry businesses into the 21st century, databases are becoming workhorses that shoulder each and every online transaction. For organizations to have effective 24/7 Web operations, they need powerhouse databases that deliver at peak performance-all the time. High Performance Web Databases: Design, Development, and Euro-Par 2005 Parallel Processing - José C. Cunha 2005-08-18

This book constitutes the refereed proceedings of the 11th International Conference on Parallel Computing, Euro-Par 2005, held in Lisbon, Portugal, in August/September 2005. The 120 revised papers presented together with 4 invited papers were carefully reviewed and selected from 388 submissions. The papers are organized in topical sections on support tools and environments, performance prediction and

evaluation, scheduling and load balancing, compilers for high performance, parallel and distributed databases, data mining and knowledge discovery, grid and cluster computing: models, middleware and architectures, parallel computer architecture and instruction distributed systems and algorithms, parallel programming: models, methods, and languages, parallel numerical algorithms, distributed and high-performance multimedia, theory and algorithms for parallel computation, routing and communication in interconnection networks, mobile and ubiquitous computing, peer-to-peer and web computing, and applications of high-performance and grid computing.

Database Systems for Advanced Applications - Jayant R. Haritsa 2008-04-03

Coverage in this proceedings includes XML schemas, data mining, spatial data, indexes and cubes, data streams, P2P and transactions, complex pattern processing, IR techniques, queries and transactions, XML databases, data warehouses, and distributed data.

InfoWorld - 2004-11-08

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

Proceedings of the FAST '02 Conference on File and Storage Technologies - 2002

Data Quality - Rupa Mahanti 2019-03-18

□This is not the kind of book that you□ll read one time and be done with. So scan it quickly the first time through to get an idea of its breadth. Then dig in on one topic of special importance to your work. Finally, use it as a reference to guide your next steps, learn details, and broaden your perspective.□ from the foreword by Thomas C. Redman, Ph.D., □the Data Doc□ Good data is a source of myriad opportunities, while bad data is a tremendous burden. Companies that manage their data effectively are able to achieve a competitive advantage in the marketplace, while bad data, like cancer, can weaken and kill an organization. In this comprehensive book, Rupa Mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality. Specifically, the book addresses: -Causes of bad data quality, bad data

quality impacts, and importance of data quality to justify the case for data quality-Butterfly effect of data quality-A detailed description of data quality dimensions and their measurement-Data quality strategy approach-Six Sigma - DMAIC approach to data quality-Data quality management techniques-Data quality in relation to data initiatives like data migration, MDM, data governance, etc.-Data quality myths, challenges, and critical success factorsStudents, academicians, professionals, and researchers can all use the content in this book to further their knowledge and get guidance on their own specific projects. It balances technical details (for example, SQL statements, relational database components, data quality dimensions measurements) and higher-level qualitative discussions (cost of data quality, data quality strategy, data quality maturity, the case made for data quality, and so on) with case studies, illustrations, and real-world examples throughout.

Database Management Systems: - IITL ESL Database Management Systems is designed as quick reference guide for important undergraduate computer courses. The organized and accessible format of this book allows students to learn the important concepts in an easy-to-understand, question-and-a *Data Modeling Logical Database Design* - Sideris Courseware Corp. 2011

This guidebook, and its companion volume which follows, provide a solid basis from which one can successfully implement relational database, multidimensional data warehouse and business intelligence (BI) technologies. The principal objective of this initial course volume is to convey a practical and common sense guide to the theory and concepts of data modeling. Using these sophisticated techniques one can create an elegant logical design of a database. Within this course we discuss not only the premier modeling theories from the best industry experts but also present the practical and real-world experience of the past 20-years of Sideris data design practitioners. The methodologies discussed are applicable to any relational database environment, including IBM DB2, the Oracle database, Microsoft SQL Server, the open-source MySQL and PostgreSQL databases as well as other RDBMS platforms. They are also

applicable to other database technologies, such as object databases and legacy IMS and IDMS databases. Finally, while we use the free Oracle SQL Developer Data Modeler product as a demonstration modeling tool, one can complete the exercises of this course and apply the techniques learned using any other popular data model diagramming tool, such as IBM InfoSphere Data Architect, CA ErWin Data Modeler, Embarcadero ER/Studio and others. A summary of the objectives of this textbook are:

DATA MODELING THEORY & CONCEPTS;
 BUILDING AN INITIAL DATA MODEL;
 DRAWING A MODEL USING SOFTWARE ENGINEERING TOOLS;
 INCREASING THE ACCURACY OF THE MODEL;
 FINDING & FIXING ATTRIBUTE MISTAKES;
 SEMANTIC & OBJECT ORIENTED MODELING OF ENTITIES & RELATIONSHIPS;
 SEMANTIC & OBJECT ORIENTED MODELING OF DOMAINS & TYPES;
 TIME-DEPENDENCY & STATE-DEPENDENCY;
 CLASSIC STRUCTURES & PATTERNS;
 LOGICAL / PHYSICAL MODEL TRANSFORMATION;
 RDBMS IMPLEMENTATION OF THE PHYSICAL MODEL

Data Warehousing and Knowledge

Discovery - Yahiko Kambayashi 2004-11-08

Within the last few years, data warehousing and knowledge discovery technology has established itself as a key technology for enterprises that wish to improve the quality of the results obtained from data analysis, decision support, and the automatic extraction of knowledge from data. The 6th International Conference on Data Warehousing and Knowledge Discovery (DaWaK 2004) continued a series of successful conferences dedicated to this topic. Its main objective was to bring together researchers and practitioners to discuss research issues and experience in developing and deploying data warehousing and knowledge discovery systems, applications, and solutions. The conference focused on the logical and physical design of data warehousing and knowledge discovery systems. The scope of the papers covers the most recent and relevant topics in the areas of data cubes and queries, multidimensional data models, XML data mining, data semantics and clustering, association rules, data mining techniques, data analysis and discovery, query optimization, data cleansing,

data warehouse design and maintenance, and applications. These proceedings contain the technical papers selected for presentation at the conference. We received more than 100 papers, including 12 industrial papers, from over 33 countries, and the program committee finally selected 40 papers. The conference program included an invited talk by Kazuo Iwano, IBM Tokyo Research Lab, Japan. We would like to thank the DEXA 2004 Workshop General Chairs (Prof.

Physical Database Design - Sam S. Lightstone
2010-07-26

The rapidly increasing volume of information contained in relational databases places a strain on databases, performance, and maintainability: DBAs are under greater pressure than ever to optimize database structure for system performance and administration. Physical Database Design discusses the concept of how physical structures of databases affect performance, including specific examples, guidelines, and best and worst practices for a variety of DBMSs and configurations. Something as simple as improving the table index design has a profound impact on performance. Every form of relational database, such as Online Transaction Processing (OLTP), Enterprise Resource Management (ERP), Data Mining (DM), or Management Resource Planning (MRP), can be improved using the methods provided in the book. The first complete treatment on physical database design, written by the authors of the seminal, Database Modeling and Design: Logical Design, Fourth Edition Includes an introduction to the major concepts of physical database design as well as detailed examples, using methodologies and tools most popular for relational databases today: Oracle, DB2 (IBM), and SQL Server (Microsoft) Focuses on physical database design for exploiting B+tree indexing, clustered indexes, multidimensional clustering (MDC), range partitioning, shared nothing partitioning, shared disk data placement, materialized views, bitmap indexes, automated design tools, and more!

True Agility From Agile+DevOps - Dave Knifton 2017-05-26

This book answers the question of how to boost the agility delivered from Agile and yet retain governed and effective control of our data. This

makes it an essential read for those who want to extract maximum benefit from Agile and DevOps, or is worried about how to remain compliant within an Agile development environment. The background to the book, is that organisations increasingly feel the need to deliver systems with more agility and clearer demonstrable benefit than ever before. In response, Agile dovetailed with DevOps, has become prevalent by promising a development agility that will underpin innovations in their Products, Services and Operational processes. However, not all stakeholders are quite as enthusiastic about this; the idea of insulating the development teams, so that they can just 'get on with it' and deliver features to 'delight their customers', runs counter to their instincts. They share the ambitions of Agile DevOps, but fear that it can become an uncontrolled 'developer charter' resulting in development that undermines co-ordinated and governed delivery. They worry that ultimately, this could cause fragmentation of the Enterprise vision, and possibly a breakdown of system interoperability. This view suggests that Agile DevOps and governance as the management arm of Enterprise Data Architecture, are intrinsically at loggerheads, and that there will always be a trade-off; more control stifling agility, or more agility loosening control. But there is another way. This book takes the reader step by step through an approach to integrating Agile DevOps with Data Governance retaining control of its data, and yet delivering enhanced development agility.

Advances in Databases and Information Systems - Johann Eder 2011-09-09

This book constitutes the refereed proceedings of the 15th International Conference on Advances in Databases and Information Systems, ADBIS 2011, held in Vienna, Austria, in September 2011. The 30 revised full papers presented together with 2 full length invited talks were carefully reviewed and selected from 105 submissions. They are organized in topical sections on query processing; data warehousing; DB systems; spatial data; information systems; physical DB design; evolution, integrity, security; and data semantics.

Researching System Administration - Eric Arnold Anderson 2002

The Data Warehouse Toolkit - Ralph Kimball 2011-08-08

This old edition was published in 2002. The current and final edition of this book is The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, 3rd Edition which was published in 2013 under ISBN: 9781118530801. The authors begin with fundamental design recommendations and gradually progress step-by-step through increasingly complex scenarios. Clear-cut guidelines for designing dimensional models are illustrated using real-world data warehouse case studies drawn from a variety of business application areas and industries, including: Retail sales and e-commerce Inventory management Procurement Order management Customer relationship management (CRM) Human resources management Accounting Financial services Telecommunications and utilities Education Transportation Health care and insurance By the end of the book, you will have mastered the full range of powerful techniques for designing dimensional databases that are easy to understand and provide fast query response. You will also learn how to create an architected framework that integrates the distributed data warehouse using standardized dimensions and facts.

Analytics, Innovation, and Excellence-Driven Enterprise Sustainability - Elias G. Carayannis 2017-04-19

This book offers a unique view of how innovation and competitiveness improve when organizations establish alliances with partners who have strong capabilities and broad social capital, allowing them to create value and growth as well as technological knowledge and legitimacy through new knowledge resources. Organizational intelligence integrates the technology variable into production and business systems, establishing a basis to advance decision-making processes. When strategically integrated, these factors have the power to promote enterprise resilience, robustness, and sustainability. This book provides a unique perspective on how knowledge, information, and data analytics create opportunities and challenges for sustainable enterprise excellence. It also shows how the value of digital technology at both personal and industrial levels leads to

new opportunities for creating experiences, processes, and organizational forms that fundamentally reshape organizations.

Network World - 2003-02-03

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

Computerworld - 1991-02-25

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide.

Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Computerworld - 1994-10-03

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide.

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Computerworld - 2003-02

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide.

Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Informatics in Medical Imaging - George C. Kagadis 2011-10-17

Informatics in Medical Imaging provides a comprehensive survey of the field of medical imaging informatics. In addition to radiology, it also addresses other specialties such as pathology, cardiology, dermatology, and surgery, which have adopted the use of digital images. The book discusses basic imaging informatics protocols, picture archiving and communication

systems, and the electronic medical record. It details key instrumentation and data mining technologies used in medical imaging informatics as well as practical operational issues, such as procurement, maintenance, teleradiology, and ethics. Highlights Introduces the basic ideas of imaging informatics, the terms used, and how data are represented and transmitted Emphasizes the fundamental communication paradigms: HL7, DICOM, and IHE Describes information systems that are typically used within imaging departments: orders and result systems, acquisition systems, reporting systems, archives, and information-display systems Outlines the principal components of modern computing, networks, and storage systems Covers the technology and principles of display and acquisition detectors, and rounds out with a discussion of other key computer technologies Discusses procurement and maintenance issues; ethics and its relationship to government initiatives like HIPAA; and constructs beyond radiology The technologies of medical imaging and radiation therapy are so complex and computer-driven that it is difficult for physicians and technologists responsible for their clinical use to know exactly what is happening at the point of care. Medical physicists are best equipped to understand the technologies and their applications, and these individuals are assuming greater responsibilities in the clinical arena to ensure that intended care is delivered in a safe and effective manner. Built on a foundation of classic and cutting-edge research, Informatics in Medical Imaging supports and updates medical physicists functioning at the intersection of radiology and radiation.

[Practical Web Database Design](#) - Chris Auld 2013-11-11

Although many web professionals will have incorporated a database into a web site before, they may not have much experience of designing them - this book will teach you all you need to know about designing a database for use with a web site or web application. From first principles to designing a successful web database, this book will show you how to get the most out of database design. From the Publisher Unlike other database design books in the market, this one focuses on design of databases

for use on the Web. Web databases benefit from good general database design principles, but also have their own set of caveats, which must

be considered for their design to be truly successful. This book covers both the general, and the web-specific database principles.