Data-Centric Systems and Applications

Edward Sciore

Database Design and Implementation

Second Edition



Database Design Implementation Edward Sciore

Carlos Coronel Peter Rob, Carlos Coronel

Database Design Implementation Edward Sciore:

Database Design and Implementation Edward Sciore, 2020-02-27 This textbook examines database systems from the viewpoint of a software developer This perspective makes it possible to investigate why database systems are the way they are It is of course important to be able to write gueries but it is equally important to know how they are processed We e g don t want to just use JDBC we also want to know why the API contains the classes and methods that it does We need a sense of how hard is it to write a disk cache or logging facility And what exactly is a database driver anyway The first two chapters provide a brief overview of database systems and their use Chapter 1 discusses the purpose and features of a database system and introduces the Derby and SimpleDB systems Chapter 2 explains how to write a database application using Java It presents the basics of JDBC which is the fundamental API for Java programs that interact with a database In turn Chapters 3 11 examine the internals of a typical database engine Each chapter covers a different database component starting with the lowest level of abstraction the disk and file manager and ending with the highest the JDBC client interface further the respective chapter explains the main issues concerning the component and considers possible design decisions As a result the reader can see exactly what services each component provides and how it interacts with the other components in the system By the end of this part s he will have witnessed the gradual development of a simple but completely functional system The remaining four chapters then focus on efficient query processing and focus on the sophisticated techniques and algorithms that can replace the simple design choices described earlier Topics include indexing sorting intelligent buffer usage and guery optimization This text is intended for upper level undergraduate or beginning graduate courses in Computer Science It assumes that the reader is comfortable with basic Java programming advanced Java concepts such as RMI and IDBC are fully explained in the text The respective chapters are complemented by end of chapter readings that discuss interesting ideas and research directions that went unmentioned in the text and provide references to relevant web pages research articles reference manuals and books Conceptual and programming exercises are also included at the end of each chapter Students can apply their conceptual knowledge by examining the SimpleDB a simple but fully functional database system created by the author and provided online code and modifying it Database Systems: Design, Implementation, and Management Carlos Coronel, Steven Morris, Peter Rob, 2009-11-20 DATABASE SYSTEMS DESIGN IMPLEMENTATION AND MANAGEMENT NINTH EDITION a market leader for database texts gives readers a solid foundation in practical database design and implementation The book provides in depth coverage of database design demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment Updated coverage of data models Improved coverage of normalization with a data modeling checklist Enhanced coverage of of database design and life cycle New review questions problem sets and cases throughout the book With a strong hands on component that includes real world examples and exercises this book will help students develop database design skills that

have valuable and meaningful application in the real world Instructors teaching tools include Instructor's Manual written by the authors to help instructors make their classes informative and interesting It includes notes about alternative approaches SQL and ColdFusion Script files tested by Course Technology to ensure accuracy Detailed solutions to all Review Questions and Problems PowerPoint Presentations for each chapter Figure files WebTutor premium online content for distance learning Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Deductive and Object-Oriented Databases Tok W. Ling, Alberto O. Mendelzon, Laurent Vieille, 1995-11-15

This book constitutes the refereed proceedings of the 4th International Conference on Deductive and Object Oriented Databases DOOD 95 held in Singapore in December 1995 Besides two keynote papers by Stefano Ceri and Michael Kifer the book contains revised full versions of 28 papers selected from a total of 88 submissions The volume gives a highly competent state of the art report on DOOD research and advanced applications The papers are organized in sections on active databases query processing semantic query optimization transaction management authorization implementation and applications

The British National Bibliography Arthur James Wells, 2009

Comprehensive Dissertation Index ,1984

Improving Database Usability and Responsiveness Peter Scheuermann,1982 The theme of usability and responsiveness has been enlarged to include new meanings of these words as they are reflected in a number of recent areas of database research Distributed database systems allow for decentralized control and location of data and they facilitate its usability by ensuring upward growth more reliability and faster access Semantic modeling has been accepted as an important tool in logical database design and in communication between users and designers In physical database design developments have occurred such as database machines which offload a substantial part of the work from the central processor to achieve more reliability and better performance The papers selected reflect these new interests and the continuing efforts to improve usability and responsiveness in query languages integrity concurrency consistency data translation and identification

Database Design and Implementation Leszek Maciaszek,1990 Database Systems: Design, Implementation, & Management Carlos Coronel, Steven Morris, 2014-01-01 Practical and easy to understand DATABASE SYSTEMS DESIGN IMPLEMENTATION AND MANAGEMENT Eleventh Edition gives students a solid foundation in database design and implementation Filled with visual aids such as diagrams illustrations and tables this market leading text provides in depth coverage of database design demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment Renowned for its clear straightforward writing style this text provides students with an outstanding balance of theory and practice The eleventh edition has been updated to include expanded relational algebra coverage updated business vignettes showing the impact of database tech in the real world updated coverage of cloud data services expanded coverage of Big Data and related Hadoop technologies SQL coverage expanded to include MySQL databases and many other improvements In addition new review questions problem

sets and cases have been added throughout the book so that students have multiple opportunities to test their understanding and develop real and useful design skills Important Notice Media content referenced within the product description or the product text may not be available in the ebook version Informatics Abstracts ,1983 Database Principles Steven Morris, Carlos Coronel, Peter Rob, 2010-04-14 DATABASE PRINCIPLES FUNDAMENTALS OF DESIGN IMPLEMENTATION AND MANAGEMENT 9e International Edition a market leader for database texts gives readers a solid foundation in practical database design and implementation The book provides in depth coverage of database design demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment Updated coverage of data models Improved coverage of normalization with a data modeling checklist Enhanced coverage of database design and life cycle New review questions problem sets and cases throughout the book With a strong hands on component that includes real world examples and exercises this book will help students develop database design skills that have valuable and meaningful application in the real world A Guide to Database Design, Implementation and Management Carlos Coronel, 2019 Structuring Expert Systems Jay Liebowitz, Daniel A. De Salvo, 1989 Provides structured methodologies in the design and construction of Expert systems Explores structuring the Expert system domain the structured elements of system design and system development and implementation Annotation copyrighted by Book American Doctoral Dissertations ,1980 Ise Carlos Coronel Peter Rob.Carlos News Inc Portland OR Coronel, 2009-07-03 Database Systems Design Implementation and Management 8e International Edition a market leader for database texts gives readers a solid foundation in practical database design and implementation. The book provides in depth coverage of database design demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment Updates for the eighth edition include additional Unified Modeling Language coverage expanded coverage of SQL Server functions all new business intelligence coverage and added coverage of data security With a strong hands on component that includes real world examples and exercises this book will help students develop database design skills that have valuable and meaningful application in the real world

Proceedings of the International Conference on Information Systems and Management of Data, 1992, 1992 Database Systems: Design, Implementation, and Management Peter Rob, Carlos Coronel, 2007-12-20 Database Systems. Design Implementation and Management Eighth Edition a market leader for database texts gives readers a solid foundation in practical database design and implementation. The book provides in depth coverage of database design demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment Updates for the eighth edition include additional Unified Modeling Language coverage expanded coverage of SQL Server functions all new business intelligence coverage and added coverage of data security With a strong hands on component that includes real world examples and exercises this book will help students develop database design skills that

have valuable and meaningful application in the real world Important Notice Media content referenced within the product description or the product text may not be available in the ebook version Information Hotline .1981 **ACM** Transactions on Information Systems ,1989 Database Systems Thomas M. Connolly, Carolyn E. Begg, 2002 This text includes material on distributed databases object oriented databases data mining data warehouses multimedia databases and the Internet and provides a strong foundation in good design practice *Understanding APEX 4. 2 Application Development* Edward Sciore, 2014-08-29 This book is for those who want to learn how to write non trivial web applications in APEX It assumes no prior experience with APEX and only a rudamentary knowledge of SQL and HTML Other skills including PL SQL coding are taught to the extent needed Writing an APEX web application is relatively straightforward you assemble a set of built in components for each page such as regions items and processes and assign property values to them The property values determine where the component is located on the page what it looks like and how it behaves It s a great idea and experienced APEX developers can build good looking and highly functional web pages guite rapidly But the learning curve can be steep Each component has many properties and you need to know their purpose in order to know what values to assign This book gently guides the reader through this abundance of properties and choices The goal is to immerse readers in the world of APEX properties giving them the comfort and fluency with properties that will allow them to think like an APEX developer Each chapter is devoted to a particular component It examines the kinds of functionality possible with that component and shows how to use the component's properties to implement it Topics include conditional formatting user customized reports data entry forms concurrency and lost updates and updatable reports APEX has design wizards and built in processes to implement many common web idioms This book examines the techniques used by these wizards and processes and discusses when to use them and when it makes sense to implement the functionality explicitly Accompanying the book is a demo web application that illustrates each mentioned technique Each page of the application is carefully constructed to illustrate one or more techniques and provides a concrete example for every concept mentioned in the book In order to illustrate the tradeoffs between different implementation techniques some pages implement the same functionality in different ways

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