Handbook Of Relational Database Design

Rebecca Riordan

Handbook of Relational Database Design Candace C. Fleming, Barbara Von Halle, 1989 This book provides a practical and proven approach to designing relational databases. It contains two complementary design methodologies: logical data modeling and relational database design. The design methodologies are independent of product-specific implementations and have been applied to numerous relational product environments. 0201114348B04062001

Relational Database Design and Implementation Jan L. Harrington, 2016-04-15 Relational Database Design and Implementation: Clearly Explained, Fourth Edition, provides the conceptual and practical information necessary to develop a database design and management scheme that ensures data accuracy and user satisfaction while optimizing performance. Database systems underlie the large majority of business information systems. Most of those in use today are based on the relational data model, a way of representing data and data relationships using only two-dimensional tables. This book covers relational database theory as well as providing a solid introduction to SQL, the international standard for the relational database data manipulation language. The book begins by reviewing basic concepts of databases and database design, then turns to creating, populating, and retrieving data using SQL. Topics such as the relational data model, normalization, data entities, and Codd's Rules (and why they are important) are covered clearly and concisely. In addition, the book looks at the impact of big data on relational databases and the option of using NoSQL databases for that purpose. - Features updated and expanded coverage of SQL and new material on big data, cloud computing, and object-relational databases - Presents design approaches that ensure data accuracy and consistency and help boost performance - Includes three case studies, each illustrating a different database design challenge - Reviews the basic concepts of databases and database design, then turns to creating, populating, and retrieving data using SQL

Database Design for Mere Mortals Michael James Hernandez,2003 This book takes the somewhat daunting process of database design and breaks it into completely manageable and understandable components. Mike's approach whilst simple is completely professional, and I can recommend this book to any novice database designer. --Sandra Barker, Lecturer, University of South Australia, Australia Databases are a critical infrastructure technology for information systems and today's business. Mike Hernandez has written a literate explanation of database technology--a topic that is intricate and often obscure. If you design databases yourself, this book will educate you about pitfalls and show you what to do. If you purchase

products that use a database, the book explains the technology so that you can understand what the vendor is doing and assess their products better. --Michael Blaha, consultant and trainer, author of A Manager's Guide to Database Technology If you told me that Mike Hernandez could improve on the first edition of Database Design for Mere Mortals I wouldn't have believed you, but he did! The second edition is packed with more real-world examples, detailed explanations, and even includes database-design tools on the CD-ROM! This is a must-read for anyone who is even remotely interested in relational database design, from the individual who is called upon occasionally to create a useful tool at work, to the seasoned professional who wants to brush up on the fundamentals. Simply put, if you want to do it right, read this book! --Matt Greer, Process Control Development, The Dow Chemical Company Mike's approach to database design is totally common-sense based, yet he's adhered to all the rules of good relational database design. I use Mike's books in my starter database-design class, and I recommend his books to anyone who's interested in learning how to design databases or how to write SQL queries. --Michelle Poolet, President, MVDS, Inc. Slapping together sophisticated applications with poorly designed data will hurt you just as much now as when Mike wrote his first edition, perhaps even more. Whether you're just getting started developing with data or are a seasoned pro; whether you've read Mike's previous book or this is your first; whether you're happier letting someone else design your data or you love doing it yourself--this is the book for you. Mike's ability to explain these concepts in a way that's not only clear, but fun, continues to amaze me. --From the Foreword by Ken Getz, MCW Technologies, coauthor ASP.NET Developer's JumpStart The first edition of Mike Hernandez's book Database Design for Mere Mortals was one of the few books that survived the cut when I moved my office to smaller quarters. The second edition expands and improves on the original in so many ways. It is not only a good, clear read, but contains a remarkable quantity of clear, concise thinking on a very complex subject. It's a must for anyone interested in the subject of database design. --Malcolm C. Rubel, Performance Dynamics Associates Mike's excellent guide to relational database design deserves a second edition. His book is an essential tool for fledgling Microsoft Access and other desktop database developers, as well as for client/server pros. I recommend it highly to all my readers. --Roger Jennings, author of Special Edition Using Access 2002 There are no silver bullets! Database technology has advanced dramatically, the newest crop of database servers perform operations faster than anyone could have imagined six years ago, but none of these technological advances will help fix a bad database design, or capture data that you forgot to include! Database Design for Mere Mortals(TM), Second Edition, helps you design your database right in the first place! -- Matt Nunn, Product Manager, SQL Server, Microsoft Corporation When my brother started his professional career as a developer, I gave him Mike's book to help him understand database concepts and make real-world application of database technology. When I need a refresher on the finer points of database design, this is the book I pick up. I do not think that there is a better testimony to the value of a book than that it gets used. For this reason I have wholeheartedly recommended to my peers and students that they utilize this book in their day-to-day

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A Practical Guide to Relational Database Design Peter Domanski, Philip Irvine, 1995-08-01

Database Design for Mere Mortals Michael J. Hernandez,2021-07-27 The #1 Easy, Commonsense Guide to Database Design! Michael J. Hernandez's best-selling Database Design for Mere Mortals® has earned worldwide respect as the clearest, simplest way to learn relational database design. Now, he's made this hands-on, software-independent tutorial even easier, while ensuring that his design methodology is still relevant to the latest databases, applications, and best practices. Step by step, Database Design for Mere Mortals®, Third Edition, shows you how to design databases that are soundly structured, reliable, and flexible, even in modern web applications. Hernandez guides you through everything from database planning to defining tables, fields, keys, table relationships, business rules, and views. You'll learn practical ways to improve data integrity, how to avoid common mistakes, and when to break the rules. Coverage includes Understanding database types, models, and design terminology Discovering what good database design can do for you—and why bad design can make your life miserable Setting objectives for your database, and transforming those objectives into real designs Analyzing a current database so you can identify ways to improve it Establishing table structures and relationships, assigning primary

keys, setting field specifications, and setting up views Ensuring the appropriate level of data integrity for each application Identifying and establishing business rules Whatever relational database systems you use, Hernandez will help you design databases that are robust and trustworthy. Never designed a database before? Settling for inadequate generic designs? Running existing databases that need improvement? Start here.

Relational Database Design and Implementation Jan L. Harrington, 2009-09-02 Fully revised, updated, and expanded, Relational Database Design and Implementation, Third Edition is the most lucid and effective introduction to the subject available for IT/IS professionals interested in honing their skills in database design, implementation, and administration. This book provides the conceptual and practical information necessary to develop a design and management scheme that ensures data accuracy and user satisfaction while optimizing performance, regardless of experience level or choice of DBMS. The book begins by reviewing basic concepts of databases and database design, then briefly reviews the SQL one would use to create databases. Topics such as the relational data model, normalization, data entities and Codd's Rules (and why they are important) are covered clearly and concisely but without resorting to Dummies-style talking down to the reader. Supporting the book's step-by-step instruction are three NEW case studies illustrating database planning, analysis, design, and management practices. In addition to these real-world examples, which include object-relational design techniques, an entirely NEW section consisting of three chapters is devoted to database implementation and management issues. -Principles needed to understand the basis of good relational database design and implementation practices - Examples to illustrate core concepts for enhanced comprehension and to put the book's practical instruction to work - Methods for tailoring DB design to the environment in which the database will run and the uses to which it will be put - Design approaches that ensure data accuracy and consistency - Examples of how design can inhibit or boost database application performance - Object-relational design techniques, benefits, and examples - Instructions on how to choose and use a normalization technique - Guidelines for understanding and applying Codd's rules - Tools to implement a relational design using SQL - Techniques for using CASE tools for database design

<u>Six-step Relational Database Design</u> Fidel A. Captain,2013-05-11 Bridges the gaps between database theory, database modeling, and database implementation by outlining a simple but reliable six-step process for accurately modeling user data on a Crow's Foot Relational Model Diagram, and then demonstrating how to implement this model on any relational database management system. This volume uses three case studies and starts with a statement of the problem by the client and then goes through the six steps necessary to create a reliable and accurate data model of the client's business requirements. The second edition contains a new chapter on implementation that goes through the steps necessary to implement each of the case studies on a relational database management system, clearly relating the design to implementation and database theory. In addition, questions are also included at the end of each of the six steps and one of the previous case studies has been

replaced, making the case study selection more diverse. This book is intended for use as a handbook for students and professionals in the software-development field. The technique described in this book can be used by students for quickly developing relational databases for their applications, and by professionals for developing sturdy, reliable, and accurate relational database models for their software applications. --From publisher description.

Introductory Relational Database Design for Business, with Microsoft Access Ionathan Eckstein, Bonnie R. Schultz, 2018-01-16 A hands-on beginner's guide to designing relational databases and managing data using Microsoft Access Relational databases represent one of the most enduring and pervasive forms of information technology. Yet most texts covering relational database design assume an extensive, sophisticated computer science background. There are texts on relational database software tools like Microsoft Access that assume less background, but they focus primarily on details of the user interface, with inadequate coverage of the underlying design issues of how to structure databases. Growing out of Professor Jonathan Eckstein's twenty years' experience teaching courses on management information systems (MIS) at Rutgers Business School, this book fills this gap in the literature by providing a rigorous introduction to relational databases for readers without prior computer science or programming experience. Relational Database Design for Business, with Microsoft Access helps readers to quickly develop a thorough, practical understanding of relational database design. It takes a step-by-step, real-world approach, using application examples from business and finance every step the way. As a result, readers learn to think concretely about database design and how to address issues that commonly arise when developing and manipulating relational databases. By the time they finish the final chapter, students will have the knowledge and skills needed to build relational databases with dozens of tables. They will also be able to build complete Microsoft Access applications around such databases. This text: Takes a hands-on approach using numerous real-world examples drawn from the worlds of business, finance, and more Gets readers up and running, fast, with the skills they need to use and develop relational databases with Microsoft Access Moves swiftly from conceptual fundamentals to advanced design techniques Leads readers step-by-step through data management and design, relational database theory, multiple tables and the possible relationships between them, Microsoft Access features such as forms and navigation, formulating queries in SQL, and normalization Introductory Relational Database Design for Business, with MicrosoftAccess is the definitive guide for undergraduate and graduate students in business, finance, and data analysis without prior experience in database design. While Microsoft Access is its primary "hands-on" learning vehicle, most of the skills in this text are transferrable to other relational database software such as MySQL.

Database Design for Mere Mortals Michael J. Hernandez, Michael J Hernandez, 2020-12-02 The #1 Easy, Commonsense Guide to Database Design—Now Updated Foreword by Michelle Poolet, Mount Vernon Data Systems LLC Michael J. Hernandez's best-selling Database Design for Mere Mortals has earned worldwide respect as the simplest way to

learn relational database design. Now, he's made this hands-on, software independent tutorial even clearer and easier to use. Step by step, this new 25th Anniversary Edition shows you how to design modern databases that are soundly structured, reliable, and flexible, even in the latest online applications. Hernandez guides you through everything from planning to defining tables, fields, keys, table relationships, business rules, and views. You'll learn practical ways to improve data integrity, how to avoid common mistakes, and when to break the rules. Updated review questions and figures help you learn these techniques more easily and effectively. Understand database types, models, and design terminology Perform interviews to efficiently capture requirements—even if everyone's working remotely Set clear design objectives and transform them into effective designs Analyze a current database so you can identify ways to improve it Establish table structures and relationships, assign primary keys, set field specifications, and set up views Ensure the correct level of data integrity for each database Identify and establish business rules Preview and prepare for the future of relational databases Whatever relational database systems you use, Hernandez will help you design databases that are robust and trustworthy. Never designed a database before? Settling for inadequate generic designs? Running existing databases that need improvement? Start here.

Physical Database Design Sam S. Lightstone, Toby J. Teorey, Tom Nadeau, 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!

A Practical Guide to Relational Database Design Peter Domanski, 2000-04

Beginning Database Design Gavin Powell,2006 From the #1 source for computing information, trusted by more than six million readers worldwide.

Relational Database Design Clearly Explained Jan L. Harrington, 2002 Fully revised and updated, Relational Database Design, Second Edition is the most lucid and effective introduction to relational database design available. Here, you'll find

the conceptual and practical information you need to develop a design that ensures data accuracy and user satisfaction while optimizing performance, regardless of your experience level or choice of DBMS. Supporting the book's step-by-step instruction are three case studies illustrating the planning, analysis, and design steps involved in arriving at a sound design. These real-world examples include object-relational design techniques, which are addressed in greater detail in a new chapter devoted entirely to this timely subject. * Concepts you need to master to put the book's practical instruction to work. * Methods for tailoring your design to the environment in which the database will run and the uses to which it will be put. * Design approaches that ensure data accuracy and consistency. * Examples of how design can inhibit or boost database application performance. * Object-relational design techniques, benefits, and examples. * Instructions on how to choose and use a normalization technique. * Guidelines for understanding and applying Codd's rules. * Tools to implement a relational design using SQL. * Techniques for using CASE tools for database design.

Beginning Database Design Solutions Rod Stephens,2010-12-30 The vast majority of software applications use relational databases that virtually every application developer must work with. This book introduces you to database design, whether you're a DBA or database developer. You'll discover what databases are, their goals, and why proper design is necessary to achieve those goals. Additionally, you'll master how to structure the database so it gives good performance while minimizing the chance for error. You will learn how to decide what should be in a database to meet the application's requirements.

Access Database Design & Programming Steven Roman,2002-01-07 For programmers who prefer content to frills, this guide has succinct and straightforward information for putting Access to its full, individually tailored use.

<u>Database Design</u> Ryan K. Stephens,Ronald R. Plew,2001 Using client-proven methods and over 15 years of experience with the topic, Dr. Jones provides the reader with an understanding of the practical art of good database design, regardless of database type. Readers who have been confused by the high-end, academic style of current database design books will benefit from the approachable, tutorial style.

The Design of Relational Databases Heikki Mannila, Kari-Jouko Räihä, 1992 This is a reference guide on the design of relational databases. It applies the entity-relationship model to the conceptual level of database design, and combines this application with rigorous treatment of the design of relational schemes. The book presents practical design theory and methods in a unified way.

Database Design: Know It All Toby J. Teorey, Tony Morgan, Thomas P. Nadeau, Bonnie O'Neil, Elizabeth O'Neil, Patrick O'Neil, Markus Schneider, Graeme Simsion, Graham Witt, Stephen Buxton, Lowell Fryman, Ralf Hartmut Güting, Terry Halpin, Jan L. Harrington, W.H. Inmon, Sam S. Lightstone, Jim Melton, 2008-10-23 This book brings all of the elements of database design together in a single volume, saving the reader the time and expense of making multiple purchases. It

consolidates both introductory and advanced topics, thereby covering the gamut of database design methodology? from ER and UML techniques, to conceptual data modeling and table transformation, to storing XML and querying moving objects databases. The proposed book expertly combines the finest database design material from the Morgan Kaufmann portfolio. Individual chapters are derived from a select group of MK books authored by the best and brightest in the field. These chapters are combined into one comprehensive volume in a way that allows it to be used as a reference work for those interested in new and developing aspects of database design. This book represents a quick and efficient way to unite valuable content from leading database design experts, thereby creating a definitive, one-stop-shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources. - Chapters contributed by various recognized experts in the field let the reader remain up to date and fully informed from multiple viewpoints. - Details multiple relational models and modeling languages, enhancing the reader's technical expertise and familiarity with design-related requirements specification. - Coverage of both theory and practice brings all of the elements of database design together in a single volume, saving the reader the time and expense of making multiple purchases.

Database Design and Relational Theory C. J. Date, 2019-12-12 Create database designs that scale, meet business requirements, and inherently work toward keeping your data structured and usable in the face of changing business models and software systems. This book is about database design theory. Design theory is the scientific foundation for database design, just as the relational model is the scientific foundation for database technology in general. Databases lie at the heart of so much of what we do in the computing world that negative impacts of poor design can be extraordinarily widespread. This second edition includes greatly expanded coverage of exotic and little understood normal forms such as: essential tuple normal form (ETNF), redundancy free normal form (RFNF), superkey normal form (SKNF), sixth normal form (6NF), and domain kev normal form (DKNF). Also included are new appendixes, including one that provides an in-depth look into the crucial notion of data consistency. Sequencing of topics has been improved, and many explanations and examples have been rewritten and clarified based upon the author's teaching of the content in instructor-led courses. This book aims to be different from other books on design by bridging the gap between the theory of design and the practice of design. The book explains theory in a way that practitioners should be able to understand, and it explains why that theory is of considerable practical importance. Reading this book provides you with an important theoretical grounding on which to do the practical work of database design. Reading the book also helps you in going to and understanding the more academic texts as you build your base of knowledge and expertise. Anyone with a professional interest in database design can benefit from using this book as a stepping-stone toward a more rigorous design approach and more lasting database models. What You Will LearnUnderstand what design theory is and is notBe aware of the two different goals of normalizationKnow which normal forms are truly significant Apply design theory in practice Be familiar with techniques for dealing with redundancy

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Designing Effective Database Systems Rebecca Riordan, 2005 Riordan covers core skills for any developer--database design and development--in a perfect amount of detail. This book should be on every professional developer's reading list. --Duncan Mackenzie, developer, Microsoft (MSDN)Designing a database is not a trivial subject. Riordan brings experience and clear explanations to a fundamental part of software development. --Patrick Birch, database and technical writing consultantIf you buy only one book on database design, make it this one. Riordan has a talent for explaining technical issues in simple language, without over simplifying. --Brendan Reynolds, developer, Dataset IT Systems and Microsoft Access MVPA book that will expertly guide you in how to develop a database for a client-- and how to do it right the first time! --Kenneth D. Snell, Ph.D., ACCESS developer and Microsoft Access MVP Riordan has produced a unique book that brings together a formal, yet commonsense, approach to relational database design...and then goes further! Many database designers will find immense value in the steps to developing practical data warehouse designs. If you are seeking a framework for designing transactional databases, or want to step out into the world of analytical databases, Riordan's book excels at bridging both worlds. --Paul Irvine, vice president, engineering, Via TrainingRiordan takes a complex subject and makes it easy. If you're over your head on a database design project, this book will help bail you out! --Mike Gunderloy, contributing editor, Application Development Trends This book covers a wide range of database design and data modeling topics in a wellorganized, easy to understand format. -- Amy Sticksel, Sticksel Data Systems, Inc. In Designing Effective Database Systems, Riordan''s style, wit, and attention to detail are outstanding. --Sandra Daigle, Microsoft Access MVP The Software Developer''s Step-by-Step Guide to Database Design World-renowned expert Rebecca M. Riordan has written the definitive database design book for working developers who aren"t database experts. No matter how messy or complex your data challenge, Designing Effective Database Systems shows you how to design an effective, high-performance database to solve it. Riordan begins by thoroughly demystifying the principles of relational design, making them accessible to every professional developer. Next, she offers the field"s clearest introduction to dimensional database modeling--practical insight for designing today's increasingly important analytical applications. One task at a time, the author illuminates every facet of database analysis and design for both traditional databases and the dimensional databases used for data warehousing, showing how to avoid common architectural pitfalls that complicate development and reduce extensibility. The book concludes with comprehensive, expert guidance on designing databases for maximum usability. This book will teach you to Understand relational database models, structures, relationships, and data integrity principles Define database system goals,

criteria, scope, and work processes Construct accurate conceptual models: relationships, entities, domain analysis, and normalization Build efficient, secure database schema Master the elements of online analytical processing (OLAP) design: fact tables, dimension tables, snowflaking, and more Architect and construct easy, efficient interfaces for querying and reporting Learn from practice examples based on Microsoft''s Northwind sample database Riordan has helped thousands of professionals master database design and development, earning Microsoft''s coveted MVP honor for her exceptional contributions. Nobody is more qualified to help you master database design and apply it in your real-world environment.

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