



relational database design

clearly explained

SECOND
EDITION

JAN L. HARRINGTON

Relational Database Design Clearly Explained

Fidel A. Captain



Relational Database Design Clearly Explained:

Relational Database Design Clearly Explained Jan L. Harrington, 2002-04-23 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

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

Object-oriented Database Design Clearly Explained Jan L. Harrington, 2000 This book will help you make sense of the conflicting theories and vendor claims about object oriented database systems

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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

Relational Database Design and Implementation Jan L. Harrington, 2009-07-24 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

Database Design for Mere Mortals Michael James Hernandez, 2003 The bestselling book on database design is now fully updated and revised

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 queries 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 query 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 JDBC 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

Pro SQL Server Relational Database Design and Implementation Louis Davidson, Jessica Moss, 2016-12-29 Learn effective and scalable database design techniques in a SQL Server 2016 and higher environment This book is revised to cover in memory online transaction processing temporal data storage row level security durability enhancements and other design related features that are new or changed in SQL Server 2016 Designing an effective and scalable database using SQL Server is a task requiring skills that have been around for forty years coupled with technology that is constantly changing Pro SQL Server Relational Database Design and Implementation covers everything from design logic that business users will understand all the way to the physical implementation of design in a SQL Server database Grounded in best practices and a solid understanding of the underlying theory Louis Davidson shows how to get it right in SQL Server database design and lay a solid groundwork for the future use of valuable business data The pace of change in relational database management systems has been tremendous these past few years Whereas in the past it was enough to think about optimizing data residing on spinning hard drives today one also must consider solid state storage as well as data that are constantly held in memory and never written to disk at all

except as a backup Furthermore there is a trend toward hybrid cloud and on premise database configurations as well a move toward preconfigured appliances Pro SQL Server Relational Database Design and Implementation guides in the understanding of these massive changes and in their application toward sound database design Gives a solid foundation in best practices and relational theory Covers the latest implementation features in SQL Server 2016 Helps you master in memory OLTP and use it effectively Takes you from conceptual design to an effective physical implementation What You Will Learn Develop conceptual models of client data using interviews and client documentation Recognize and apply common database design patterns Normalize data models to enhance scalability and the long term use of valuable data Translate conceptual models into high performing SQL Server databases Secure and protect data integrity as part of meeting regulatory requirements Create effective indexing to speed query performance Who This Book Is For Programmers and database administrators of all types who want to use SQL Server to store data The book is especially useful to those wanting to learn the very latest design features in SQL Server 2016 features that include an improved approach to in memory OLTP durability enhancements temporal data support and more Chapters on fundamental concepts the language of database modeling SQL implementation and of course the normalization process lay a solid groundwork for readers who are just entering the field of database design More advanced chapters serve the seasoned veteran by tackling the very latest in physical implementation features that SQL Server has to offer The book has been carefully revised to cover all the design related features that are new in SQL Server 2016 **Database in Depth** C.J. Date,2005-05-05 This concise guide sheds light on the principles behind the relational model which underlies all database products in wide use today It goes beyond the hype to give you a clear view of the technology a view that is not influenced by any vendor or product Suitable for experienced database developers and designers **Database Design Using Entity-Relationship Diagrams** Sikha Bagui,Richard Earp,2003-06-27 Entity relationship E R diagrams are time tested models for database development well known for their usefulness in mapping out clear database designs Also commonly known is how difficult it is to master them With this comprehensive guide database designers and developers can quickly learn all the ins and outs of E R diagramming to become expert database designers Because E R diagrams are so fundamental to database design this book is also an indispensable text for teaching computer science students the basics of database development Database Design Using Entity Relationship Diagrams clarifies E R diagramming by defining it in terms of requirements end user requests and specifications designer feedback to those requests The book explains how open communication between designers and end users is critical to developing usable easy to understand E R diagrams that model both requirements and specifications The authors explain in an intuitive informal manner how to develop an E R diagram how to map it to a database and how the resulting database can be tested This definitive guide is a basic component for any database course and is also an invaluable reference that database professionals can use throughout their careers introbul Features **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 **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 **Six-step Relational Database Design** 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 Physical Database Design Using Oracle Donald K. Burleson,2004-07-27 The evolution of Oracle has led to a revolution in design practices For Oracle 10g database physical structures have become more complex than ever before and database designers face multiple ways to implement their logical models IS students studying database design and administration need to be able to implement management systems in a way that **Database Design and Development** Raymond Frost,John Charles Day,Craig Van Slyke,2006 For students in the introductory course in database who want to learn how to design rather than just manipulate relational databases The book that balances database theory business problem solving and hands on practice This book prepares student for the workplace without sacrificing rigorous academic theory **Beginning Database Design** Clare Churcher,2012-08-08 Beginning Database Design Second Edition provides short easy to read explanations of how to get database design right the first time This book offers numerous examples to help you avoid the many pitfalls that entrap new and not so new database designers Through the help of use cases and class diagrams modeled in the UML you ll learn to discover and represent the details and scope of any design problem you choose to attack Database design is not an exact science Many are surprised to find that problems

with their databases are caused by poor design rather than by difficulties in using the database management software Beginning Database Design Second Edition helps you ask and answer important questions about your data so you can understand the problem you are trying to solve and create a pragmatic design capturing the essentials while leaving the door open for refinements and extension at a later stage Solid database design principles and examples help demonstrate the consequences of simplifications and pragmatic decisions The rationale is to try to keep a design simple but allow room for development as situations change or resources permit Provides solid design principles by which to avoid pitfalls and support changing needs Includes numerous examples of good and bad design decisions and their consequences Shows a modern method for documenting design using the Unified Modeling Language **Valuepack** Thomas Connolly,2005-08-01

Introduction to Relational Databases and SQL Programming Christopher Allen,Simon Chatwin,Catherine Creary,2004 This textbook provides a hands on approach to relational database design and database management within an Oracle context Practical Issues in Database Management Fabian Pascal,2000 The aim of this work is to provide a correct and up to date understanding of the practical aspects of crucial yet little understood core database issues The author identifies fundamental concepts principles and techniques and assesses the treatment of those issues in SQL both the standard and commercial implementations and gives advice on how to deal with them Topics covered include complex data types missing information data hierarchies and quota queries Annotation copyrighted by Book News Inc Portland OR

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