

Database In Depth

Relational Theory for Practitioners



C. J. Date

Database In Depth Relational Theory For Practitioners

C.J. Date



Database In Depth Relational Theory For Practitioners:

Database in Depth C.J. Date, 2005-05-05 This book sheds light on the principles behind the relational model which is fundamental to all database backed applications and consequently most of the work that goes on in the computing world today Database in Depth The Relational Model for Practitioners goes beyond the hype and gets to the heart of how relational databases actually work Ideal for experienced database developers and designers this concise guide gives you a clear view of the technology a view that is not influenced by any vendor or product Featuring an extensive set of exercises it will help you understand why and how the relational model is still directly relevant to modern database technology and will remain so for the foreseeable future see why and how the SQL standard is seriously deficient use the best current theoretical knowledge in the design of their databases and database applications make informed decisions in their daily database professional activities Database in Depth will appeal not only to database developers and designers but also to a diverse field of professionals and academics including database administrators DBAs information modelers database consultants and more Virtually everyone who deals with relational databases should have at least a passing understanding of the fundamentals of working with relational models Author C J Date has been involved with the relational model from its earliest days An exceptionally clear thinking writer Date lays out principle and theory in a manner that is easily understood Few others can speak as authoritatively the topic of relational databases as Date can

Database Design and Relational Theory C.J. Date, 2012-04-17 What makes this book different from others on database design Many resources on design practice do little to explain the underlying theory and books on design theory are aimed primarily at theoreticians In this book renowned expert Chris Date bridges the gap by introducing design theory in ways practitioners can understand drawing on lessons learned over four decades of experience to demonstrate why proper database design is so critical in the first place Every chapter includes a set of exercises that show how to apply the theoretical ideas in practice provide additional information or ask you to prove some simple theoretical result If you are a database professional familiar with the relational model and have more than a passing interest in database design this book is for you Questions this book answers include Why is Heath's Theorem so important What is The Principle of Orthogonal Design What makes some JDs reducible and others irreducible Why does dependency preservation matter Should data redundancy always be avoided Can it be Databases often stay in production for decades and careful design is critical for avoiding subtle errors and processing problems over time If they are badly designed the negative impacts can be incredibly widespread This gentle introduction shows you how to use important theoretical results to create good database designs

SQL and Relational Theory C.J. Date, 2009-01-23 Understanding SQL's underlying theory is the best way to guarantee that your SQL code is correct and your database schema is robust and maintainable On the other hand if you are not well versed in the theory you can fall into several traps In SQL and Relational Theory author C J Date demonstrates how you can apply relational theory directly to your use of SQL With numerous

examples and clear explanations of the reasoning behind them you ll learn how to deal with common SQL dilemmas such as Should database access granted be through views instead of base tables Nulls in your database are causing you to get wrong answers Why What can you do about it Could you write an SQL query to find employees who have never been in the same department for more than six months at a time SQL supports quantified comparisons but they re better avoided Why How do you avoid them Constraints are crucially important but most SQL products don t support them properly What can you do to resolve this situation Database theory and practice have evolved since Edgar Codd originally defined the relational model back in 1969 Independent of any SQL products SQL and Relational Theory draws on decades of research to present the most up to date treatment of the material available anywhere Anyone with a modest to advanced background in SQL will benefit from the many insights in this book SQL and Relational Theory C. Date, 2011-12-16 SQL is full of difficulties and traps for the unwary You can avoid them if you understand relational theory but only if you know how to put the theory into practice In this insightful book author C J Date explains relational theory in depth and demonstrates through numerous examples and exercises how you can apply it directly to your use of SQL This second edition includes new material on recursive queries missing information without nulls new update operators and topics such as aggregate operators grouping and ungrouping and view updating If you have a modest to advanced background in SQL you ll learn how to deal with a host of common SQL dilemmas Why is proper column naming so important Nulls in your database are causing you to get wrong answers Why What can you do about it Is it possible to write an SQL query to find employees who have never been in the same department for more than six months at a time SQL supports quantified comparisons but they re better avoided Why How do you avoid them Constraints are crucially important but most SQL products don t support them properly What can you do to resolve this situation Database theory and practice have evolved since the relational model was developed more than 40 years ago SQL and Relational Theory draws on decades of research to present the most up to date treatment of SQL available C J Date has a stature that is unique within the database industry A prolific writer well known for the bestselling textbook An Introduction to Database Systems Addison Wesley he has an exceptionally clear style when writing about complex principles and theory

Applied Mathematics for Database Professionals Lex deHaan, Toon Koppelaars, 2007-10-24 Relational databases hold data right They do indeed but to think of a database as nothing more than a container for data is to miss out on the profound power that underlies relational technology A far more powerful way of thinking lies in relational technologys foundation in the mathematical disciplines of logic and set theory Databases contain truths or propositions describing some area of interest such as a business Those truths are organized into sets Operations from logic and set theory can be applied to existing sets of truths to derive new sets of truths Applied Mathematics for Database Professionals introduces you to this way of thinking to the logic and set theory that underlies relational database technology All this may sound abstract now but there are profound benefits from the deeper understanding youll gain from this book The math that you ll learn in this book will put you above

the level of understanding of most database professionals today. You'll better understand the technology and be able to apply it more effectively. You'll avoid data anomalies like redundancy and inconsistency. Understanding what's in this book will take your mastery of relational technology to heights you may not have thought possible. This book is reviewed and endorsed by C. J. Date and features a foreword by the same.

Logic and Relational Theory C. J. Date, 2020-06-06 This book is a revised, upgraded, and hugely improved version of an earlier one called *Logic and Databases*. Although it's effectively a brand new book, therefore the following remarks from that earlier book are still relevant here. First, logic and databases are inextricably intertwined. The relational model itself is essentially just elementary logic tailored to database needs. Now, if you're a database professional, this won't be news to you, but you still might not realize just how much everything we do in the database world is or should be affected by logic. Logic is fundamental and everywhere. As a database professional, therefore, you owe it to yourself to understand the basics of formal logic and you ought to be able to explain and perhaps defend the connections between formal logic and database technology. And that's what this book is about. What it does is show, through a series of partly independent, partly interrelated essays, just how various crucial aspects of database technology, some of them very familiar, others maybe less so, are solidly grounded in formal logic. Overall, the goal is to help you realize the importance of logic in everything you do, and also I hope to help you see that logic can be fun.

The Relational Database Dictionary C. J. Date, 2006 This book provides a single source where designers, programmers, students, and DBAs using Oracle, SQL Server, DB2, MySQL, PostgreSQL, and other relational database systems can find precise definitions.

Relational Theory for Computer Professionals C. J. Date, 2013-05-21 All of today's mainstream database products support the SQL language, and relational theory is what SQL is supposed to be based on. But are those products truly relational? Sadly, the answer is no. This book shows you what a real relational product would be like and how and why it would be so much better than what's currently available. With this unique book, you will learn how to see database systems as programming systems. Get a careful, precise, and detailed definition of the relational model. Explore a detailed analysis of SQL from a relational point of view. There are literally hundreds of books on relational theory, or the SQL language, or both. But this one is different. First, nobody is more qualified than Chris Date to write such a book. He and Ted Codd, inventor of the relational model, were colleagues for many years, and Chris's involvement with the technology goes back to the time of Codd's first papers in 1969 and 1970. Second, most books try to use SQL as a vehicle for teaching relational theory, but this book deliberately takes the opposite approach. Its primary aim is to teach relational theory as such. Then it uses that theory as a vehicle for teaching SQL, showing in particular how that theory can help with the practical problem of using SQL correctly and productively. Any computer professional who wants to understand what relational systems are all about can benefit from this book. No prior knowledge of databases is assumed.

FileMaker 12 Developers Reference Bob Bowers, Steve Lane, Scott Love, Dawn Heady, 2012-08-23 The new FileMaker 12 allows you to build unparalleled databases for a wide variety of devices from

Windows and Mac desktops to iPhones and iPad With 10 million registered customers FileMaker's users are average Joes who are knowledge workers subject matter experts and business users from all walks of life The community extends well beyond the pool of professional software developers FileMaker's legendary ease of use has led to its wide adoption and has allowed non programmers an avenue into creating sophisticated software solutions FileMaker 12 Developer's Reference will serve to help bridge the gaps in these people's understanding of FileMaker's hundreds of calculation functions script steps and operations They know FileMaker they've used it for years but they need a quick reference immediately accessible while not interrupting their work on screen There is no other book like this on the market All FileMaker books include information on calculation formulas scripting etc but none have expressly focused on giving readers one simple thing a quick reference to be used in conjunction with their programming efforts Some books teach others explain still others explore specific in depth topics This book will appeal to the entire FileMaker Pro community and be a great extension of their library This edition is updated for the many new features coming with FileMaker 12 including the product's design functionality and the file format and a new section dedicated to FileMaker Go which is the iOS client [FileMaker 9 Developer Reference](#) Bob Bowers, Steve Lane, Scott Love, 2007-08-02 Maybe you know FileMaker and you have used it for years but need a quick reference immediately accessible while not interrupting your work on screen This is the only book on the market expressly focused on describing each calculation formula and how and when to use each Filled with real world concrete examples this book is an invaluable companion to readers working to develop solutions to their every day software problems Contains hundreds of calculation functions script steps and operations that will appeal to every FileMaker user new and old

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