Database In Depth

Relational Theory for Practitioners

C. J. Date

Database In Depth Relational Theory For Practitioners

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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 s 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   *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

   SQL and Relational Theory C. J. Date,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 re 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 professionalstoday You ll better understand the technology and be able to apply it more effectively You ll avoid data anomalies like redundancy and inconsistency Understanding whats 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 **Database Management Systems** Dr. Prashant Kumar, Dr. K. S. S. Joseph Sastry, Mr. Mallothu Rajaram, Dr. Love Kumar,2026-02-03 Database Management Systems is a comprehensive academic text that introduces the fundamental concepts design principles and practical applications of database systems The book covers essential topics such as data models entity relationship modeling relational database design normalization Structured Query Language SQL transaction management concurrency control indexing and database security It also explores advanced areas including distributed databases data warehousing NoSQL systems and database administration Emphasizing both theoretical foundations and hands on implementation the text provides real world examples and problem solving techniques to help students understand how data is efficiently stored managed and retrieved in modern information systems Suitable for undergraduate and postgraduate students in computer science information technology and related fields the book builds a strong foundation for designing and managing robust database applications **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 **Modeling Decisions for Artificial Intelligence** Vincenc Torra,Yasuo Narukawa,Guillermo Navarro-Arribas,David Megías,2014-07-08 This book constitutes the proceedings of the 10th International Conference on Modeling Decisions for Artificial Intelligence MDAI 2013 held in Barcelona Spain in November 2013 The 24 papers presented in this volume were

carefully reviewed and selected from 40 submissions They deal with the theory and tools for modeling decisions as well as applications that encompass decision making processes and information fusion techniques   Relational Theory for Computer Professionals C. J. Date,2013 All of today u2019 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 u2019 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 u2019 s involvement with the technology goes back to the time of Codd u2019 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   The Writers Directory ,2013   **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 key 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 Learn Understand what design theory is and is not Be aware of the two different goals of normalization Know which normal forms are truly significant Apply design theory in practice Be familiar with techniques for dealing with redundancy Understand what consistency is and why it is crucially important Who This Book Is For Those having a professional interest in database design including data and database administrators educators and students specializing in database matters information modelers and database designers DBMS designers implementers and other database vendor personnel and database consultants The book is product independent *Real World SQL and PL/SQL: Advice from the Experts* Arup Nanda,Brendan Tierney,Heli Helskyaho,Martin Widlake,Alex Nuijten,2016-08-22 Master the Underutilized Advanced Features of SQL and PL SQL This hands on guide from Oracle Press shows how to fully exploit lesser known but extremely useful SQL and PL SQL features and how to effectively use both languages together Written by a team of Oracle ACE Directors Real World SQL and PL SQL Advice from the Experts features best practices detailed examples and insider tips that clearly demonstrate how to write troubleshoot and implement code for a wide variety of practical applications The book thoroughly explains underutilized SQL and PL SQL functions and lays out essential development strategies Data modeling advanced analytics database security secure coding and administration are covered in complete detail Learn how to Apply advanced SQL and PL SQL tools and techniques Understand SQL and PL SQL functionality and determine when to use which language Develop accurate data models and implement business logic Run PL SQL in SQL and integrate complex datasets Handle PL SQL instrumenting and profiling Use Oracle Advanced Analytics and Oracle R Enterprise Build and execute predictive queries Secure your data using encryption hashing redaction and masking Defend against SQL injection and other code based attacks Work with Oracle Virtual Private Database Code examples in the book are available for download at www MHProfessional com TAG For a complete list of Oracle Press titles visit www OraclePressBooks com *The British National Bibliography* Arthur James Wells,2005 **Relational Database Theory** Paolo Atzeni,Valeria De Antonellis,1993 Written by internationally recognized authorities in the database field this book delivers a thorough discussion of the foundations of the relational model of database design along with a systematic treatment of the formal theory for the model In addition the authors provide a survey of the performance of the model and include an encyclopedic reference to the available literature *Choice* ,2005 From Modal Logic to Deductive Databases Paul Gochet,1989-08-30 Languages and logics Intensional logic and natural language Montague s sematics Temporal logic Formalization of revisable reasoning Logic and databases Data Driven Systems Modeling Remi Planche,1992 Conceptual models emphasize the essence of information systems They are concerned with meaning that is semantic relationships between real work objects Implementation models deal with data structures and programs and are concerned with efficient use of data processing resources This book introduces the theory and practice of conceptual modelling and demonstrates its use for system design and implementation It ties information engineering with the more traditional structured analysis

approach and with the relational model as implemented in state of the art database environments   Foundations of Databases Serge Abiteboul,Richard Hull,Victor Vianu,1995 This product is a complete reference to both classical material and advanced topics that are otherwise scattered in sometimes hard to find papers A major effort in writing the book was made to highlight the intuitions behind the theoretical development   **Database Processing with Fourth Generation Languages** Gary W. Hansen,1988 This text is intended to provide a greater depth of coverage of data languages than is currently available These languages have been colloquially called fourth generation languages available in a large number of commercial products The book is structured around the basic principles that tend to be common to the majority of these products Relational database theory along with relational languages and their various commercial implementations visual programming and integrated programming environments are covered in some depth This book is intended for business students who have had at least one course in a traditional programming language COBOL BASIC etc without any other prerequisites   *Relational Database Writings, 1994-1997* C. J. Date,Hugh Darwen,D. McGoveran,1998 Chris Date is a name synonymous with relational database technology all over the world and he enjoys a reputation for his ability to explain complex technical material in a clear and understandable fashion Here are selected writings by Date the fifth in a series of books based on papers by the specialist

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