

DATABASE EXPLORATIONS

Essays on The Third Manifesto and Related Topics



C.J. Date and Hugh Darwen

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C. J. Date



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Database Explorations C. J. Date, Hugh Darwen, 2010-07 A note from the authors Dear Reader Database is boring That sentiment is heard all too widely these days But it s so wrong The database field is full of important problems still to be solved and interesting issues still to be examined and some of those problems and issues are explored in this book Between us we have nearly 80 years experience in this field and we re still actively researching exploring and learning as well as helping others do the same The present book is the latest in a series devoted to these goals using The Third Manifesto a detailed proposal for the future of database technology as a foundation it reports on some of our most recent investigations in this field Among many other things it includes the most recent version of The Third Manifesto itself specifications for a conforming language called Tutorial D and a detailed proposal for a model of type inheritance Other significant features include Extending the foreign key concept Simplifying queries using image relations Closer looks at logic and relational algebra Suggested approaches to missing information Responses to certain Manifesto criticisms Clarifying aspects of normalization The tone of the book overall is naturally somewhat serious but there are moments of light relief as well We hope you enjoy it C J Date and Hugh Darwen

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 **The New Relational Database Dictionary** C.J. Date,2015-12-21 No matter what DBMS you are using Oracle DB2 SQL Server MySQL PostgreSQL misunderstandings can always arise over the precise meanings of terms misunderstandings that can have a serious effect on the success of your database projects For example here are some common database terms attribute BCNF consistency denormalization predicate repeating group join dependency Do you know what they all mean Are you sure The New Relational Database Dictionary defines all of these terms and many many more Carefully reviewed for clarity accuracy and completeness this book is an authoritative and comprehensive resource for database professionals with over 1700 entries many with examples dealing with issues and concepts arising from the relational model of data DBAs database designers DBMS implementers application developers and database professors and students can find the information they need on a daily basis information that isn't readily available anywhere else *Time and Relational Theory* C.J. Date,Hugh Darwen,Nikos Lorentzos,2014-08-13 Time and Relational Theory provides an in depth description of temporal database systems which provide special facilities for storing querying and updating historical and future data Traditionally database management systems provide little or no special support for temporal data at all This situation is changing because Cheap storage enables retention of large volumes of historical data in data warehouses Users are now faced with temporal data problems and need solutions Temporal features have recently been incorporated into the SQL standard and vendors have begun to add temporal support to their DBMS products Based on the groundbreaking text Temporal Data the Relational Model Morgan Kaufmann 2002 and new research led by the authors Time and Relational Theory is the only book to offer a complete overview of the functionality of a temporal DBMS Expert authors Nikos Lorentzos Hugh Darwen and Chris Date describe an approach to temporal database management that is firmly rooted in classical relational theory and will stand the test of time This book covers the SQL 2011 temporal extensions in depth and identifies and discusses the temporal functionality still missing from SQL Understand how the relational model provides an ideal basis for taming the complexities of temporal databases Learn how to analyze and evaluate commercial temporal products with this timely and important information Be able to use sound principles in designing and using temporal databases Understand the temporal support recently added to SQL with coverage of the new SQL features in this unique accurate and authoritative reference Appreciate the benefits of a truly relational approach to the problem with this clear user friendly presentation E. F. Codd and Relational Theory: A Detailed Review and Analysis of Codd's Major Database Writings C. J. Date,2019-07-18 E F Codd's relational model of data has been described as one of the three greatest inventions of all time the other two being agriculture

and the scientific method and his receipt of the 1981 ACM Turing Award the top award in computer science for inventing it was thoroughly deserved The papers in which Codd first described his model were staggering in their originality they had and continue to have a huge impact on just about every aspect of the way we do business in the world today And yet few people even in the professional database community are truly familiar with those papers This book is an attempt to remedy this sorry state of affairs In it well known author C J Date provides a detailed examination of all of Codd s major technical publications explaining the nature of his contribution in depth and in particular highlighting not only the many things he got right but also some of the things he got wrong

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

Type Inheritance and Relational Theory C.J. Date, 2016-09-08 Type inheritance is that phenomenon according to which we can say for example that every square is also a rectangle and so properties that apply to rectangles in general apply to squares in particular In other words squares are a subtype of rectangles and rectangles are a supertype of squares Recognizing and acting upon such subtype supertype relationships provides numerous benefits Certainly it can help in data modeling and it can also provide for code reuse in applications For these reasons many languages including the standard database language SQL have long supported such relationships However there doesn t seem to be any consensus in the community at large on a formal rigorous and abstract model of inheritance This book proposes such a model one that enjoys several advantages over other approaches not the least of which it is that it s fully compatible with the well known relational model of data Topics the model covers include Both single and multiple inheritance Scalar tuple and relation inheritance Type lattices and union and intersection types Polymorphism and substitutability Compile time and run time binding All of these topics are described in detail in the book with numerous illustrative examples exercises and answers The book also discusses several alternative approaches In particular it includes a detailed discussion and analysis of inheritance as supported in the SQL standard

Stating the Obvious, and Other Database Writings C. J. Date, Some things seem so obvious that they don t need to be spelled out in detail

Or do they In computing at least and probably in any discipline where accuracy and precision are important it can be quite dangerous just to assume that some given concept is obvious and indeed universally understood Serious mistakes can happen that way The first part of this book discusses features of the database field equality assignment naming where just such an assumption seems to have been made and it describes some of the unfortunate mistakes that have occurred as a consequence It also explains how and why the features in question aren't quite as obvious as they might seem and it offers some advice on how to work around the problems caused by assumptions to the contrary Other parts of the book also deal with database issues where devoting some preliminary effort to spelling out exactly what the issues in question entailed could have led to much better interfaces and much more carefully designed languages The issues discussed include redundancy and indeterminacy persistence encapsulation and decapsulation the ACID properties of transactions and types vs units of measure Finally the book also contains a detailed deconstruction of and response to various recent pronouncements from the database literature all of them having to do with relational technology Once again the opinions expressed in those pronouncements might seem obvious to some people to the writers at least presumably but the fact remains that they're misleading at best and in most cases just flat out wrong

Database Dreaming Volume I C. J. Date, 2022-02-11 Along with its companion volume *Database Dreaming Volume II* this book offers a collection of essays on the general topic of relational databases and relational database technology Most of those essays though not all have been published before but only in journals and magazines that are now hard to find or in books that are now out of print Here's a lightly edited excerpt from the preface so this is the author speaking I went back and reviewed all of those early essays looking for ones that seemed worth reviving or rather revising and reviving at this time Of course some of them definitely weren't However out of a total of around 130 original papers I did find some 20 or so that seemed to me worth preserving and hadn't already been incorporated in or superseded by more recent books of mine So I tracked down the original versions of those 20 or so papers and set to work When I was done though I found I had somewhere in excess of 600 pages on my hands too much in my view for just one book and so I split them across two separate volumes Highlights of the present volume include a discussion of the difficulties involved in providing a relational interface to a nonrelational system a tutorial on the quantifiers and what happens to them under three-valued logic an examination of the effect of user-defined types on optimization some thoughts on normalization and database design tools and caveats regarding certain important database operators especially outer join and negation

E. F. Codd and Relational Theory, Revised Edition C. J. Date, E. F. Codd's relational model of data has been described as one of the three greatest inventions of all time the other two being agriculture and the scientific method and his receipt of the 1981 ACM Turing Award the top award in computer science for inventing it was thoroughly deserved The papers in which Codd first described his model were staggering in their originality they had and continue to have a huge impact on just about every aspect of the way we do business in the world today And yet few people even in the professional

database community are truly familiar with those papers This book a thorough overhaul and rewrite of an earlier book by the same name is an attempt to remedy this sorry state of affairs In it well known author C J Date provides a detailed examination of all of Codd s major database publications explaining the nature of his contribution in depth and in particular highlighting not only the many things he got right but also some of the things he got wrong Database theory and practice have evolved considerably since Codd first defined his relational model back in 1969 This book draws on decades of experience to present the most up to date treatment of the material possible Anyone with a professional interest in databases can benefit from the insights it contains The book is product independent

Database Explorations Essays On The Third Manifesto And Related Topics Hugh Darwen Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Database Explorations Essays On The Third Manifesto And Related Topics Hugh Darwen**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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