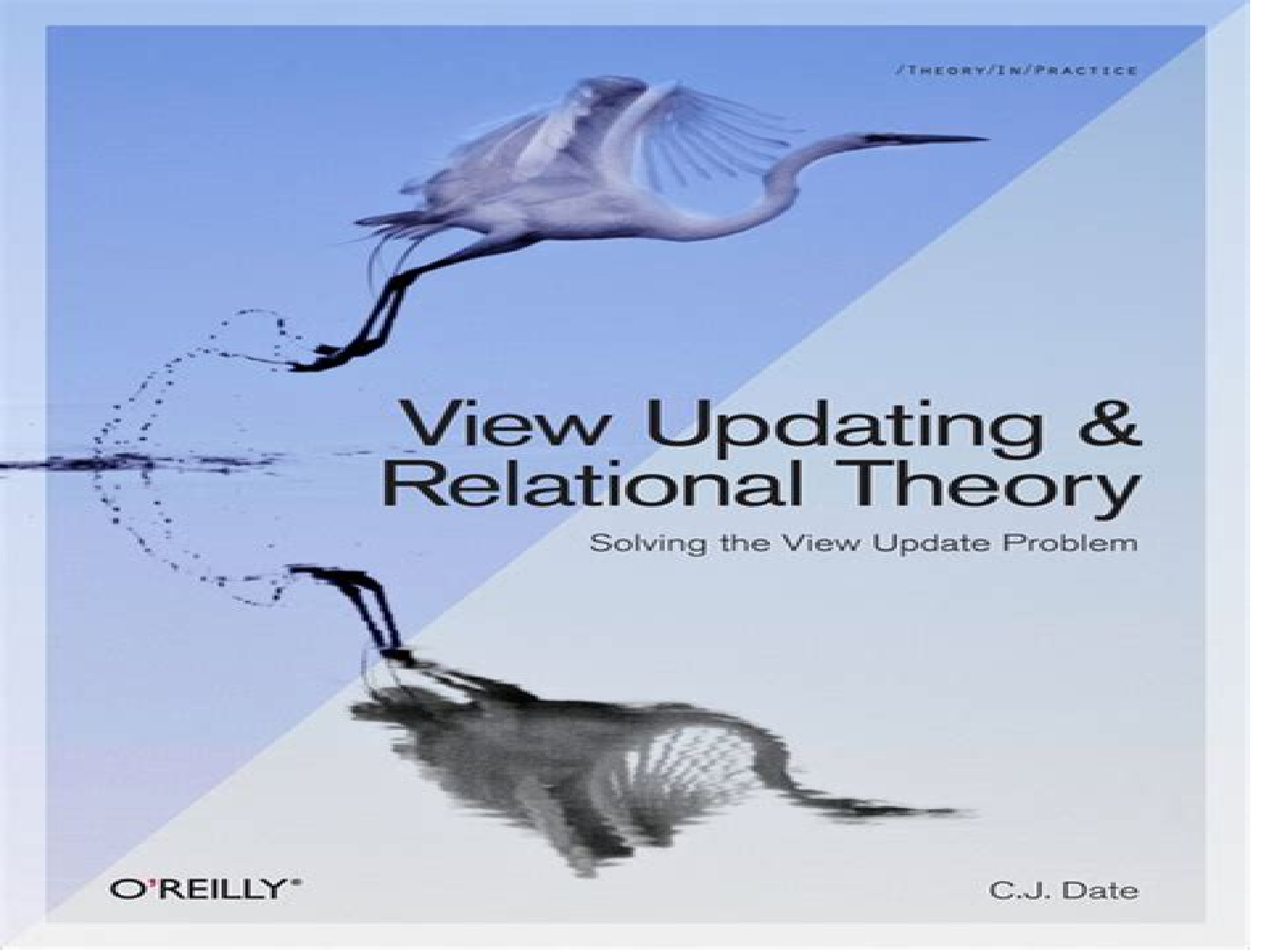


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View Updating & Relational Theory

Solving the View Update Problem

O'REILLY®

C.J. Date

View Updating And Relational Theory C J Date

Christopher Date



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View Updating and Relational Theory Chris Date, 2013 Views are virtual tables That means they should be updatable just as real or base tables are In fact view updatability isn't just desirable it's crucial for practical reasons as well as theoretical ones But view updating has always been a controversial topic Ever since the relational model first appeared there has been widespread skepticism as to whether in general view updating is even possible In stark contrast to this conventional wisdom this book shows how views just like base tables can always be updated so long as the updates don't violate any integrity constraints More generally it shows how updating always ought to work regardless of whether the target is a base table or a view The proposed scheme is 100% consistent with the relational model but rather different from the way updating works in SQL products today This book can Help database products improve in the future Help with a roll your own implementation absent such product improvements Make you aware of the crucial role of predicates and constraints Show you how relational products are really supposed to behave Anyone with a professional interest in the relational model relational technology or database systems in general can benefit from this book *View Updating and Relational Theory* C.

J. Date, 2012 Views are virtual tables That means they should be updatable just as real or base tables are In fact view updatability isn't just desirable it's crucial for practical reasons as well as theoretical ones But view updating has always been a controversial topic Ever since the relational model first appeared there has been widespread skepticism as to whether in general view updating is even possible In stark contrast to this conventional wisdom this book shows how views just like base tables can always be updated so long as the updates don't violate any integrity constraints More generally it shows how updating always ought to work regardless of whether the target is a base table or a view The proposed scheme is 100% consistent with the relational model but rather different from the way updating works in SQL products today This book can Help database products improve in the future Help with a roll your own implementation absent such product improvements Make you aware of the crucial role of predicates and constraints Show you how relational products are really supposed to behave Anyone with a professional interest in the relational model relational technology or database systems in general can benefit from this book **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.

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.

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.

SQL and Relational Theory C. J. Date, 2015-11-06 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 that theory into practice. In this book Chris Date explains relational theory in depth and demonstrates through numerous examples and exercises how you can apply it to your use of SQL. This third edition has been revised, extended and improved throughout. Topics whose treatment has been expanded include data types and domains, table comparisons, image relations, aggregate operators and

summarization view updating and subqueries A special feature of this edition is a new appendix on NoSQL and relational theory Could you write an SQL query to find employees who have worked at least once in every programming department in the company And be sure it s correct Why is proper column naming so important Nulls in the database cause wrong answers Why What you can do about it How can image relations help you formulate complex SQL queries SQL supports quantified comparisons but they re better avoided Why And how Database theory and practice have evolved considerably since Codd first defined the relational model back in 1969 This book draws on decades of experience to present the most up to date treatment of the material available anywhere Anyone with a modest to advanced background in SQL can benefit from the insights it contains The book is product independent

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

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

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

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

Fifty Years of Relational, and Other Database Writings C.J. Date, Fifty years of relational It s hard to believe the relational model has been around now for over half a century But it has it was born on August 19th 1969 when Codd s first database paper was published And Chris Date has been involved with it for almost the whole of that time working closely with Codd for many years and publishing the very first and definitive book on the subject in 1975 In this book s title essay Chris offers his own unique perspective two chapters on those fifty years No database professional can afford to miss this one of a kind history But there s more to this book than just a little personal history Another unique feature is an extensive and in depth discussion nine chapters of a variety of frequently asked questions on relational matters covering such topics as mathematics and the relational model relational algebra predicates relation valued attributes keys and normalization missing information and the SQL language Another part of the book offers detailed responses to critics four chapters Finally the book also contains the text of several recent interviews with Chris Date covering such matters as RM V2 XML NoSQL The Third Manifesto and how SQL came to dominate the database landscape Database Dreaming Volume II C. J. Date, 2022-02-11

Along with its companion volume Database Dreaming Volume I 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 detailed

explanation of the multiple assignment operator and why it's so essential an investigation into why object and database technologies are so much more different than they're often made out to be a critical examination of SQL's support for pointers references a tutorial on the counterintuitive but crucial concept of tables with no columns and an annotated and extended debate between the author and E F Codd inventor of the relational model on the subject of nulls and three valued logic

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

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

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.

Logic and Databases C. J. Date, 2007. Logic and databases are inextricably intertwined. The relational model, in particular, is essentially just elementary predicate logic tailored to fit the needs of database management. Now, if you're a database professional, I'm sure this isn't 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 predicate logic. Logic is everywhere. So if you're a database professional, you really owe it to yourself to understand the basics of formal logic and you really ought to be able to explain and perhaps defend the connections between formal logic and database management. And that's what this book is about. What it does is show, through a series of partly independent and 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. It is divided into five parts: Basic Logic, Logic and Database Management, Logic and Database Design, Logic and Algebra, Logic and the Third Manifesto. There's also a lengthy appendix containing a collection of frequently asked questions and some answers on various aspects of logic and database management. Overall, my 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 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 *Joe Celko's SQL for Smarties* Joe Celko,2010-11-22 Joe Celko's SQL for Smarties Advanced SQL Programming offers tips and techniques in advanced programming This book is the fourth edition and it consists of 39 chapters starting with a comparison between databases and file systems It covers transactions and currency control schema level objects locating data and schema numbers base tables and auxiliary tables Furthermore procedural semi procedural and declarative programming are explored in this book The book also presents the different normal forms in database normalization including the first second third fourth fifth elementary key domain key and Boyce Codd normal forms It also offers practical hints for normalization and denormalization The book discusses different data types such as the numeric temporal and character data types the different predicates and the simple and advanced SELECT statements In addition the book presents virtual tables and it discusses data partitions in queries grouping operations simple aggregate functions and descriptive statistics matrices and graphs in SQL The book concludes with a discussion about optimizing SQL It will be of great value to SQL programmers Expert advice from a noted SQL authority and award winning columnist who has given ten years service to the ANSI SQL standards committee Teaches scores of advanced techniques that can be used with any product in any SQL environment whether it is an SQL 92 or SQL 2008 environment Offers tips for working around deficiencies and gives insight into real world challenges **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 *Database Design and Relational Theory* Chris Date,2012-04-17 Because databases often stay in production for decades careful design is critical to making the database serve the needs of your users over years and to avoid subtle errors or performance problems In this book C J Date a leading exponent of relational databases lays out the principles of good database design

Embracing the Track of Expression: An Emotional Symphony within **View Updating And Relational Theory C J Date**

In a global consumed by monitors and the ceaseless chatter of quick transmission, the melodic beauty and emotional symphony created by the prepared term frequently disappear in to the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. However, located within the pages of **View Updating And Relational Theory C J Date** a marvelous literary prize filled with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this charming masterpiece conducts visitors on an emotional journey, skillfully unraveling the concealed melodies and profound influence resonating within each carefully crafted phrase. Within the depths of the emotional analysis, we will discover the book is central harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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