LOGIC AND DATABASES

The Roots of Relational Theory

C.J. Date

Logic And Databases The Roots Of Relational Theory

Neal Thomas

Logic And Databases The Roots Of Relational Theory:

    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 interrelate 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   **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   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 *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

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. 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 **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 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   *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,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 re 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 re 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   **E. F. Codd and Relational Theory: A Detailed Review and Analysis of CoddÕs 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 **Becoming-Social in a Networked Age** Neal Thomas,2018-01-09 This book examines the semiotic effects of protocols and algorithms at work in popular social media systems bridging philosophical conversations in human computer interaction HCI and information systems IS design with contemporary work in critical media technology and software studies Where most research into social media is sociological in scope Neal Thomas shows how the underlying material semiotic operations of social media now crucially define what it means to be social in a networked age He proposes that we consider social media platforms as computational processes of collective individuation that produce rather than presume forms of subjectivity and sociality Towards A Semantic Web Bill Cope,Mary Kalantzis,Liam Magee,2011-01-14 This book addresses the question of how knowledge is currently documented and may soon be documented in the context of what it calls semantic publishing This takes two forms a more narrowly and technically defined semantic web as well as a broader notion of semantic publishing This book examines the ways in which knowledge is represented in journal articles and books By contrast it goes on to explore the potential impacts of semantic publishing on academic research and authorship It sets this in the context of changing knowledge ecologies the way research is done the way knowledge is represented and the modes of knowledge access used by researchers students and the general public Provides an introduction to the semantic web and semantic publishing for readers outside the field of computer science Discusses the relevance of the semantic web and semantic publishing more broadly and its application to academic research Examines the changing ecologies of knowledge production **The Making of a New Science** Giorgio Ausiello,2018-08-06 This book explains the development of theoretical computer science in its early stages specifically from 1965 to 1990 The author is among the pioneers of theoretical computer science and he guides the reader through the early stages of development of this new discipline He explains the origins of the field arising from disciplines such as logic mathematics and electronics and he describes the evolution of the key principles of computing in strands such as computability algorithms and programming But mainly it s a story about people pioneers with diverse backgrounds and characters came together to overcome philosophical and institutional challenges and build a community They collaborated on research efforts they established schools and conferences they developed the first related university courses they taught generations of future researchers and practitioners and they set up the key publications to communicate and archive their knowledge The book is a fascinating insight into the field as it existed and evolved it will be valuable reading for anyone interested in the history of computing **Go Faster!** , **Towards Intelligent Engineering and Information Technology** Imre J. Rudas,János

Fodor,2009-09-30 Intelligent engineering systems try to replicate fundamental abilities of humans and nature in order to achieve sufficient progress in solving complex problems In an ideal case multi disciplinary applications of different modern engineering fields can result in synergistic effects Information technology and computer modeling are the underlying tools that play a major role at any stages of developing intelligent systems Chapters in the present volume have been written by eminent scientists from different parts of the world dealing with challenging problems for efficient modeling of intelligent systems The reader can find different characteristics and methodologies of computational intelligence with real life applications Various facets of intelligent engineering and information technology are addressed Starting with theoretical issues from pseudo analysis to parametric classes of digital fuzzy conjunctions for hardware implementation of fuzzy systems diverse aspects of control including quantum as well as fuzzy control and hybrid approaches intelligent robotics dealing with mobile and autonomous robots and new trends approaches and results on information technology machines materials and manufacturing and issues of intelligent systems and complex processes are covered **Modelling to Program** Ajantha Dahanayake,Oscar Pastor,Bernhard Thalheim,2021-03-30 This book constitutes revised selected papers from the Second International Workshop on Modelling to Program M2P 2020 held in Lappeenranta Finland in March 2020 The 10 papers presented were thoroughly reviewed and selected from 24 submissions The papers provide a discussion on novel approaches to programming based on modelling approaches such as model driven development MDE MDA MDD and conceptual model programming and their future developments The topics of the papers include notions of models that can be understood and used as programs models at runtime advanced conceptual modelling conceptual model programming modelling foundation transformation of models to programs model suites ensembles for programmers modelling as the first step to programming and its revisions advanced model driven programming and software modernisation modelling in applications Recent Advances in Information Systems and Technologies Álvaro Rocha,Ana Maria Correia,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,2017-03-27 This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies WorldCIST 17 held between the 11st and 13th of April 2017 at Porto Santo Island Madeira Portugal WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges involved in modern Information Systems and Technologies research together with technological developments and applications The main topics covered are Information and Knowledge Management Organizational Models and Information Systems Software and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Ethics Computers Health Informatics Information Technologies in Education and Information Technologies in Radiocommunications **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

Advanced Data Management Lena Wiese,2015-10-29 Advanced data management has always been at the core of efficient database and information systems Recent trends like big data and cloud computing have aggravated the need for sophisticated and flexible data storage and processing solutions This book provides a comprehensive coverage of the principles of data management developed in the last decades with a focus on data structures and query languages It treats a wealth of different data models and surveys the foundations of structuring processing storing and querying data according these models Starting off with the topic of database design it further discusses weaknesses of the relational data model and then proceeds to convey the basics of graph data tree structured XML data key value pairs and nested semi structured JSON data columnar and record oriented data as well as object oriented data The final chapters round the book off with an analysis of fragmentation replication and consistency strategies for data management in distributed databases as well as recommendations for handling polyglot persistence in multi model databases and multi database architectures While primarily geared towards students of Master level courses in Computer Science and related areas this book may also be of benefit to practitioners looking for a reference book on data modeling and query processing It provides both theoretical depth and a concise treatment of open source technologies currently on the market

The Enigmatic Realm of **Logic And Databases The Roots Of Relational Theory**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Logic And Databases The Roots Of Relational Theory** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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