

Information Modeling And Relational Databases 2 Edition

Handbook of Relational Database DesignInformation Modeling and Relational DatabasesRelational DatabasesINGRES and Relational DatabasesRelational Database Design and ImplementationRelational Theory for Computer ProfessionalsInside Relational Databases with Examples in AccessTheory and Practice of Relational DatabasesIntegrating Relational Databases with the Semantic WebThe Design of Relational DatabasesRelational Database Systems - Why and HowDatabase in DepthDatabase Dreaming Volume IIRelational Databases and Knowledge BasesA Guided Tour of Relational Databases and BeyondThe Relational Database DictionaryRelational Databases Time and Relational TheoryDatabase Design and Relational TheoryThe Structure of the Relational Database Model Candace C. Fleming Terry Halpin D A Bell David M. Rothwell Jan L. Harrington C.J. Date Mark Whitehorn Stefan Stanczyk J.F. Sequeda Heikki Mannila Ron Rogerson C.J. Date C. J. Date Georges Gardarin Mark Levene C.J. Date Val Occardi C.J. Date Chris Date Jan Paredaens

Handbook of Relational Database Design Information Modeling and Relational Databases Relational Databases INGRES and Relational Databases Relational Database Design and Implementation Relational Theory for Computer Professionals Inside Relational Databases with Examples in Access Theory and Practice of Relational Databases Integrating Relational Databases with the Semantic Web The Design of Relational Databases Relational Database Systems - Why and How Database in Depth Database Dreaming Volume II Relational Databases and Knowledge Bases A Guided Tour of Relational Databases and Beyond The Relational Database Dictionary Relational Databases Time and Relational Theory Database Design and Relational Theory The Structure of the Relational Database Model *Candace C. Fleming Terry Halpin D A Bell David M. Rothwell Jan L. Harrington C.J. Date Mark Whitehorn Stefan Stanczyk J.F. Sequeda Heikki Mannila Ron Rogerson C.J. Date C. J. Date Georges Gardarin Mark Levene C.J. Date Val Occardi C.J. Date Chris Date Jan Paredaens*

this book provides a practical and proven approach to designing relational databases it contains two complementary design methodologies logical data modeling and relational database design the design methodologies are independent of product specific implementations and have been applied to numerous relational product environments 0201114348b04062001

information modeling and relational databases third edition provides an introduction to orm object role modeling and much more in fact it is the only book to go beyond introductory coverage and provide all of the in depth instruction you need to transform knowledge from domain experts into a sound

database design this book is intended for anyone with a stake in the accuracy and efficacy of databases systems analysts information modelers database designers and administrators and programmers dr terry halpin and dr tony morgan pioneers in the development of orm blend conceptual information with practical instruction that will let you begin using orm effectively as soon as possible the all new third edition includes coverage of advances and improvements in orm and uml nominalization relational mapping sql xml data interchange nosql databases ontological modeling and post relational databases supported by examples exercises and useful background information the authors step by step approach teaches you to develop a natural language based orm model and then where needed abstract er and uml models from it this book will quickly make you proficient in the modeling technique that is proving vital to the development of accurate and efficient databases that best meet real business objectives this book is an excellent introduction to both information modeling in orm and relational databases the book is very clearly written in a step by step manner and contains an abundance of well chosen examples illuminating practice and theory in information modeling i strongly recommend this book to anyone interested in conceptual modeling and databases dr herman balsters director of the faculty of industrial engineering university of groningen the netherlands presents the most in depth coverage of object role modeling including a thorough update of the book for the latest versions of orm er uml owl and bpmn modeling includes clear coverage of relational database concepts as well as the latest developments in sql xml information modeling data exchange and schema transformation case studies and a large number of class tested exercises are provided for many topics includes all new chapters on data file formats and nosql databases

relational databases explores the major advances in relational databases and provides a balanced analysis of the state of the art in relational databases topics covered include capture and analysis of data placement requirements distributed relational database systems data dependency manipulation in database schemata and relational database support for computer graphics and computer aided design this book is divided into three sections and begins with an overview of the theory and practice of distributed systems using the example of ingres from relational technology as illustration the following chapters focus on whether relational and relational like systems actually meet business needs ibm s structured query language data system sql ds tools for database design and programming and secondary access methods and the problem of secondary index selection a number of quantitative models for assessing the performance of physical databases are also described this text concludes by assessing some of the most conspicuous trends in relational database research and development this monograph will be of interest to database designers

this book is a pragmatic text designed to enable the reader to use the database ingres with the minimum amount of effort it provides the essential foundation for becoming either an expert user of the system or mastering database design combining a practical approach with a theoretical understanding this text allows the reader to become proficient in ingres to understand what features are being used why

relational database design and implementation clearly explained fourth edition provides the conceptual and practical information necessary to develop a database design and management scheme that ensures data accuracy and user satisfaction while optimizing performance database systems underlie the large majority of business information systems most of those in use today are based on the relational data model a way of representing data and data relationships using only two dimensional tables this book covers relational database theory as well as providing a solid introduction to sql the international standard for the relational database data manipulation language the book begins by reviewing basic concepts of databases and database design then turns to creating populating and retrieving data using sql topics such as the relational data model normalization data entities and codd s rules and why they are important are covered clearly and concisely in addition the book looks at the impact of big data on relational databases and the option of using nosql databases for that purpose features updated and expanded coverage of sql and new material on big data cloud computing and object relational databases presents design approaches that ensure data accuracy and consistency and help boost performance includes three case studies each illustrating a different database design challenge reviews the basic concepts of databases and database design then turns to creating populating and retrieving data using sql

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

contents should we tell you the whole story of course there is an inevitable tension in trying to work like this for example in chapter 16 we talk about referential integrity there are sentially six different flavors of referential integrity but access only s ports four of them they are the most important ones however so you aren t missing out on too much the problem is this should we tell you about the other two if we do as an access user you have every right to be annoyed that we are telling you about a feature you can t use on the other hand the six different types that we describe are part of the re tional world and this book is about that world we are not trying to teach you how to use access we are simply using

access to illustrate the relational model ultimately we decided to risk your ire and to describe all of the features of the relational model as we see it even if access doesn't support all of them one advantage of this approach is that if you need to use a different database engine you will almost certainly find the extra information useful incidentally this is not meant to imply that access is somehow lacking as a relational database engine the reason we chose it for the first book is that it is such a good example of a relational database tool

the study of relationship databases is a core component of virtually every undergraduate computer science degree course this new edition of theory and practice of relationship databases retains all the features that made the previous edition such as success and goes on to give even more comprehensive and informative coverage written in a tutorial style and containing a great many examples and exercises as well as extensively using illustrative and explanatory graphics the author has produced an undergraduate textbook of great depth and clarity that is very easy to follow the subject of relational databases is brought to life by the writing style and the inclusion of an homogenous case study that reinforces the issues dealt with in each chapter the primary objective of the book is to present a comprehensive explanation of the process of development of database application systems within the framework of a set processing paradigm since the majority of these applications are built as relationship systems a complete though reasonably concise account of that model is presented dr stanczyk has achieved this by concentrating on the issues that contribute significantly to the application development while de emphasizing purely theoretical aspects of the subject this has led to an imaginative and highly practical textbook that will be an excellent read for the undergraduate computer science student

an early vision in computer science was to create intelligent systems capable of reasoning on large amounts of data independent results in the areas of semantic and relational databases have advanced us towards this vision despite independent advances the interface between relational databases and semantic is poorly understood this dissertation revisits this early vision with respect to current technology and addresses the following question how and to what extent can relational databases be integrated with the semantic the thesis is that much of the existing relational database infrastructure can be reused to support the semantic two problems are studied can a relational database be automatically virtualized as a semantic data source the first contribution is an automatic direct mapping from a relational database schema and data to rdf and owl the second contribution is a method capable of evaluating sparql queries against the relational database by exploiting two existing relational query optimizations these contributions are embodied in the ultrawrap system experiments show that sparql query execution performance on ultrawrap is comparable to that of sql queries written directly for the relational data such results have not been previously achieved can a relational database be mapped to existing semantic ontologies and act as a reasoner a third contribution is a method for relational databases to support inheritance and transitivity by compiling the ontology as mappings implementing the mappings as views using sql recursion and optimizing by materializing views ultrawrap is extended with this contribution empirical analysis reveals that relational databases are able to effectively act as

reasoners

this is a reference guide on the design of relational databases it applies the entity relationship model to the conceptual level of database design and combines this application with rigorous treatment of the design of relational schemes the book presents practical design theory and methods in a unified way

half a century after they were first described relational database systems remain by far the most popular choice for the storage of large datasets the book describes the practical and theoretical reasons why this is so and goes on to show how to analyse a data requirement and use it to design and develop a database through a series of practical exercises it teaches sql using a freely downloadable database system sap sql anywhere tm for windows 7 and above macos 10 9 and above and linux it is aimed principally at software engineers aiming to make a first move into sql programming or database management students of computing or computer science where an understanding of sql relational databases may be a prerequisite for the courses they are following or plan to follow and technical managers needing a grasp of sql relational databases the author taught the subject for more than two decades as a course tutor for the uk open university he is a fellow of the higher education academy

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

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

relational databases and knowledge bases is written from a systems implementation point of view no previous knowledge of relational data base technology is needed the text follows a natural progression from introductory matter such as file systems to more advanced topics such as deductive databases the inclusion of knowledge bases recognizes recent developments in artificial intelligence and expert systems

database theory is now in a mature state and this book addresses important extensions of the relational database model such as deductive temporal and object oriented databases it provides an overview of database modelling with the entity relationship er model and the relational model providing the pivot on which the material revolves the main body of the book focuses on the primary achievements of relational database theory including query languages integrity constraints database design computable queries and concurrency control the most important extensions of the relational model are covered in separate chapters this book will be useful to third year computer science undergraduates and postgraduates studying database theory and will also be of interest to researchers and database practitioners who would like to know more about the ideas underlying relational database management systems and the problems that confront database researchers

avoid misunderstandings that can affect the design programming and use of database systems whether you're using Oracle DB2 SQL Server MySQL or PostgreSQL the relational database dictionary will prevent confusion about the precise meaning of database related terms e.g. attribute 3NF one to many correspondence predicate repeating group join dependency helping to ensure the success of your database projects carefully reviewed for clarity accuracy and completeness this authoritative and comprehensive quick reference contains more than 600 terms many with examples covering issues and concepts arising from the relational model of data this one of a kind dictionary provides a single compact source where DBAs database designers DBMS implementers application developers and database professors and students can find the accurate definitions they need on a daily basis information that isn't readily available anywhere else if you're working with or learning about relational databases you need

this pocket sized quick reference

this work provides a comprehensive coverage of one of the most important topics in current data processing it is aimed primarily at the professional manager systems analyst systems designer and analyst programmer involved in the selection and use of relational database theory with a view to improving enterprise performance and competitiveness

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

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

this book presents an overview of the most fundamental aspects of the theory that underlies the relational database model as such it is self contained though experience with formal models and abstract data manipulating on the one hand and with the practical use of a relational system on the other hand can help the reader such experience will offer the reader a better understanding of and a motivation for the different concepts theories and results mentioned in the book we have focussed on the most basic concepts and aspects of the relational model without trying to give a complete overview of the state of the art of database theory recently a lot of books on databases in general and on the relational model in particular have been published most of them describe the use of database systems some clarify how information has to be structured and organized before it can be used to build applications others help

the user in writing down his applications or in finding tricky ways to optimize the running time or the necessary space another category of books treat more fundamental and more general aspects such as the description of the relational model independent of any implementation the decomposition in normal forms or the global design of distributed databases few however are the books that describe in a formal way some of the subjects mentioned above

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