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In this video seminar, internationally recognized relational database expert Chris Date describes a formal, abstract, rigorous, and robust alternative to this state of affairs by taking you through a detailed explanation of the inheritance model that he and his colleague Hugh Darwen first described in The Third Manifesto. Designed for data and database professionals, the course examines single and multiple

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inheritance; scalar, tuple, and relation inheritance; type lattices and union and ...

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Foundation for object/relational databases: the third manifesto: a detailed study of the impact of objects and type theory on the relational model of data including a comprehensive proposal for type inheritance (1st ed.). Reading, MA: Addison-Wesley. xxi, 496. ISBN 0-201-30978-5. LCCN 98010364. OCLC 38431501. LCC QA76.9.D3 D15994 1998.

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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.

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This book provides of a precise, formal definition of an abstract model of data, to be considered as a blueprint for the design of a DBMS and database language. In particular, it provides a rock-solid foundation for integrating relational and object technologies, a foundation conspicuously lacking in current approaches to such integration. The book is arranged into four parts plus appendixes: I. Preliminaries: Background and overview; objects and relations. II. Formal Specifications: The Manifesto proper; a new relational algebra; and a language called Tutorial D, a concrete realization of the ideas of the Manifesto. III. Informal Discussions and Explanations: A careful point-by-point examination and exposition of the Manifesto, with copious examples in Tutorial D. IV. Subtyping and Inheritance: A detailed and comprehensive proposal for a model of type inheritance, also with numerous examples. Appendixes: Annotated references and bibliography; comparisons with SQL3 and ODMG; database design considerations; and many other topics.

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-- Places object databases into perspective and shows how they fit into the relational continuum. -- Includes important new relational algebra and database programming ideas, and a complete new model for database subtyping and inheritance. -- Includes a detailed review of SQL:1999 (SQL3) and the proposals of the Object Data Management Group (ODMG). Foundation for Future Database Systems: The Third Manifesto offers a comprehensive, insightful proposal for the future of object/relational database management systems. Date and Darwen present a precise, formal definition of an abstract model of data that can be used as a blueprint for designing both databases and database languages -- and as a rock-solid foundation for integrating relational and object technologies. This new Second Edition has been revised extensively, with major extensions to its inheritance model; new language proposals, and improved discussions of many key concepts. The book goes beyond formal specifications, with a detailed discussion of the rationale for each proposal. It will be essential reading for everyone with a serious interest in database technology.

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

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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.

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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

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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.

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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.

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,

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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.

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