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Lex de Haan and Toon Koppelaars

Foreword by Hugh Darwen and Chris Date

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Applied Mathematics For Database Professionals

Lex deHaan, Toon Koppelaars



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Applied Mathematics for Database Professionals Lex De Haan, Toon Koppelaars, 2016 Relational databases hold data right They do indeed but to think of a database as nothing more than a container for data is to miss out on the profound power that underlies relational technology A far more powerful way of thinking lies in relational technology's foundation in the mathematical disciplines of logic and set theory Databases contain truths or propositions describing some area of interest such as a business Those truths are organized into sets Operations from logic and set theory can be applied to existing sets of truths to derive new sets of truths *Applied Mathematics for Database Professionals* introduces you to this way of thinking to the logic and set theory that underlies relational database technology All this may sound abstract now but there are profound benefits from the deeper understanding you'll gain from this book The math that you'll learn in this book will put you above the level of understanding of most database professionals today You'll better understand the technology and be able to apply it more effectively You'll avoid data anomalies like redundancy and inconsistency Understanding what's in this book will take your mastery of relational technology to heights you may not have thought possible This book is reviewed and endorsed by C J Date and features a foreword by the same *Applied Mathematics for Database Professionals* Lex deHaan, Toon Koppelaars, 2007-10-24 Relational databases hold data right They do indeed but to think of a database as nothing more than a container for data is to miss out on the profound power that underlies relational technology A far more powerful way of thinking lies in relational technology's foundation in the mathematical disciplines of logic and set theory Databases contain truths or propositions describing some area of interest such as a business Those truths are organized into sets Operations from logic and set theory can be applied to existing sets of truths to derive new sets of truths *Applied Mathematics for Database Professionals* introduces you to this way of thinking to the logic and set theory that underlies relational database technology All this may sound abstract now but there are profound benefits from the deeper understanding you'll gain from this book The math that you'll learn in this book will put you above the level of understanding of most database professionals today You'll better understand the technology and be able to apply it more effectively You'll avoid data anomalies like redundancy and inconsistency Understanding what's in this book will take your mastery of relational technology to heights you may not have thought possible This book is reviewed and endorsed by C J Date and features a foreword by the same **Applied Mathematics For Database Professionals** Haan & Koppelaars, 2007-09-01 *SQL Database Programming (Fifth Edition)* Chris Fehily, 2020-01-31 2024 update This book teaches newcomers SQL the language of databases and includes examples for the most widely used database systems In all its editions this book has sold more than 150 000 copies and is popular with end users students data scientists statisticians epidemiologists analysts app developers webmasters and hobbyists Thorough cross referencing makes it a useful desktop reference for experienced SQL programmers Covers Oracle Database Microsoft SQL Server Microsoft Access IBM Db2 Database MySQL PostgreSQL and

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SQL Chris Fehily,2010-04-16 SQL is a standard interactive and programming language for querying and modifying data and managing databases This task based tutorial and reference guide takes the mystery out learning and applying SQL After going over the relational database model and SQL syntax in the first few chapters veteran author Chris Fehily immediately launches into the tasks that will get readers comfortable with SQL In addition to covering all the SQL basics this thoroughly updated reference contains a wealth of in depth SQL knowledge and serves as an excellent reference for more experienced users

Proceedings of the 2015 Federated Conference on Software Development and Object Technologies Jan Janech,Jozef Kostolny,Tomasz Gratkowski,2016-12-14 This book presents the proceedings of the International Conference SDOT which was organized at the University in ilina Faculty of Management Sciences and Informatics Slovak Republic in November 19 2015 The conference was truly international both in terms of the amount of foreign contributions and in terms of composition of steering and scientific committees The book and the conference serves as a platform of professional exchange of knowledge and experience for the latest trends in software development and object oriented technologies theory and practice This proceedings present information on the latest developments and mediate the exchange of experience between practitioners and academia

SQL and Relational Theory C. J. Date,C.J. Date,2009-01-23 Understanding SQL s underlying theory is the best way to guarantee that your SQL code is correct and your database schema is robust and maintainable On the other hand if you re not well versed in the theory you can fall into several traps In SQL and Relational Theory author C J Date demonstrates how you can apply relational theory directly to your use of SQL With numerous examples and clear explanations of the reasoning behind them you ll learn how to deal with common SQL dilemmas such as Should database access granted be through views instead of base tables Nulls in your database are causing you to get wrong answers Why What can you do about it Could you 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 Edgar Codd originally defined the relational model back in 1969 Independent of any SQL products SQL and Relational Theory draws on decades of research to present the most up to date treatment of the material available anywhere Anyone with a modest to advanced background in SQL will benefit from the many insights in this book *Information System Development* María José Escalona, Gustavo Aragón, Henry Linger, Michael Lang, Chris Barry, Christoph Schneider, 2014-07-23 Information System Development Improving Enterprise Communication are the collected proceedings of the 22nd International Conference on Information Systems Development Improving Enterprise Communication ISD 2013 Conference held in Seville Spain It follows in the tradition of previous conferences in the series in exploring the connections between industry research and education These proceedings represent ongoing reflections within the academic community on established information systems topics and emerging concepts approaches and ideas It is hoped that the papers herein contribute towards disseminating research and improving practice The conference tracks highlighted at the 22nd International Conference on Information Systems Development ISD 2013 were Applications Data and Ontologies End Users Enterprise Evolution Industrial cases in ISD Intelligent Business Process Management Model Driven Engineering in ISD New Technologies Process Management Quality **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 Models to Code Leon Starr, Andrew Mangogna, Stephen Mellor, 2017-06-15 Learn how to translate an executable model of your application into running code This is not a book about theory good intentions or

possible future developments You ll benefit from translation technology and solid software engineering principles that are demonstrated with concrete examples using an open source tool chain Models don t deliver enough value if they are not on a direct path to code production But to waste time building models that are merely pictures of your code doesn t add much value either In this book you ll translate detailed yet platform independent models that solve real application problems Using a pragmatic approach Models to Code quickly dives into two case studies of Executable UML models The models and code are extensively annotated and illustrate key principles that are emphasized throughout the book You ll work with code production using C as the implementation language and targeting microcomputer classprocessors This might not be your particular target language or platform but you can use you can use what you learn here to engineer or re evaluate your own code translation system to dramatically increase the value of both your modeling and code generation solution Written by three leading experts Models to Code is an exceptional resource for producing software by model translation add it to your library today What You ll Learn See how detailed models resolve ambiguity and contradiction common in requirements Examine how a model can be detailed enough to be executable and testable while remaining platform independent Produce code from a model leaving the model intact so it can be redeployed on new platforms or adapted to changing software and hardware technology Implement platform independent model execution rules in platform specific run time code Who This Book Is For Modelers and systems engineers on active MBSE projects using Executable UML or not projects using Simulink Matlab Dymola MatrixX and other math modelling tools Any developers with current or past model experience professors students systems engineers embedded systems developers or anyone interested in learning more about software modelling

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