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"This book takes the somewhat daunting process of database design and breaks it into completely manageable and understandable components. Mike's approach whilst simple is completely professional, and I can recommend this book to any novice database designer." --Sandra Barker, Lecturer, University of South Australia, Australia

"Databases are a critical infrastructure technology for information systems and today's business. Mike Hernandez has written a literate explanation of database technology--a topic that is intricate and often obscure. If you design databases yourself, this book will educate you about pitfalls and show you what to do. If you purchase products that use a database, the book explains the technology so that you can understand what the vendor is doing and assess their products better." --Michael Blaha, consultant and trainer, author of A Manager's Guide to Database Technology "If you told me that Mike Hernandez could improve on the first edition of Database Design for Mere Mortals I wouldn't have believed you, but he did! The second edition is packed with more real-world examples, detailed explanations, and even includes database-design tools on the CD-ROM! This is a must-read for anyone who is even remotely interested in relational

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database design, from the individual who is called upon occasionally to create a useful tool at work, to the seasoned professional who wants to brush up on the fundamentals. Simply put, if you want to do it right, read this book!" --Matt Greer, Process Control Development, The Dow Chemical Company "Mike's approach to database design is totally common-sense based, yet he's adhered to all the rules of good relational database design. I use Mike's books in my starter database-design class, and I recommend his books to anyone who's interested in learning how to design databases or how to write SQL queries." --Michelle Poolet, President, MVDS, Inc. "Slapping together sophisticated applications with poorly designed data will hurt you just as much now as when Mike wrote his first edition, perhaps even more. Whether you're just getting started developing with data or are a seasoned pro; whether you've read Mike's previous book or this is your first; whether you're happier letting someone else design your data or you love doing it yourself--this is the book for you. Mike's ability to explain these concepts in a way that's not only clear, but fun, continues to amaze me." --From the Foreword by Ken Getz, MCW Technologies, coauthor ASP.NET Developer's JumpStart "The first edition of Mike Hernandez's book Database Design for Mere Mortals was one of the few books that survived the cut when I moved my office to smaller quarters. The second edition expands and improves on the original in so many ways. It is not only a good, clear read, but contains a remarkable quantity of clear, concise thinking on a very complex subject. It's a must for anyone interested in the

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subject of database design." --Malcolm C. Rubel, Performance Dynamics Associates

"Mike's excellent guide to relational database design deserves a second edition. His book is an essential tool for fledgling Microsoft Access and other desktop database developers, as well as for client/server pros. I recommend it highly to all my readers."

--Roger Jennings, author of Special Edition Using Access 2002 "There are no silver bullets! Database technology has advanced dramatically, the newest crop of database servers perform operations faster than anyone could have imagined six years ago, but none of these technological advances will help fix a bad database design, or capture data that you forgot to include! Database Design for Mere Mortals(TM), Second Edition, helps you design your database right in the first place!" --Matt Nunn, Product Manager, SQL Server, Microsoft Corporation

"When my brother started his professional career as a developer, I gave him Mike's book to help him understand database concepts and make real-world application of database technology. When I need a refresher on the finer points of database design, this is the book I pick up. I do not think that there is a better testimony to the value of a book than that it gets used. For this reason I have wholeheartedly recommended to my peers and students that they utilize this book in their day-to-day development tasks." --Chris Kunicki, Senior Consultant, OfficeZealot.com

"Mike has always had an incredible knack for taking the most complex topics, breaking them down, and explaining them so that anyone can 'get it.' He has honed and polished his first very, very good edition and made it even better. If

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you're just starting out building database applications, this book is a must-read cover to cover. Expert designers will find Mike's approach fresh and enlightening and a source of great material for training others." --John Viescas, President, Viescas Consulting, Inc., author of Running Microsoft Access 2000 and coauthor of SQL Queries for Mere Mortals "Whether you need to learn about relational database design in general, design a relational database, understand relational database terminology, or learn best practices for implementing a relational database, Database Design for Mere Mortals(TM), Second Edition, is an indispensable book that you'll refer to often. With his many years of real-world experience designing relational databases, Michael shows you how to analyze and improve existing databases, implement keys, define table relationships and business rules, and create data views, resulting in data integrity, uniform access to data, and reduced data-entry errors." --Paul Cornell, Site Editor, MSDN Office Developer Center Sound database design can save hours of development time and ensure functionality and reliability. Database Design for Mere Mortals(TM), Second Edition, is a straightforward, platform-independent tutorial on the basic principles of relational database design. It provides a commonsense design methodology for developing databases that work. Database design expert Michael J. Hernandez has expanded his best-selling first edition, maintaining its hands-on approach and accessibility while updating its coverage and including even more examples and illustrations. This edition features a CD-ROM that includes diagrams of

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sample databases, as well as design guidelines, documentation forms, and examples of the database design process. This book will give you the knowledge and tools you need to create efficient and effective relational databases.

As Web-based systems and e-commerce carry businesses into the 21st century, databases are becoming workhorses that shoulder each and every online transaction.

For organizations to have effective 24/7 Web operations, they need powerhouse databases that deliver at peak performance-all the time. High Performance Web Databases: Design, Development, and

Learn effective and scalable database design techniques in a SQL Server 2016 and higher environment. This book is revised to cover in-memory online transaction processing, temporal data storage, row-level security, durability enhancements, and other design-related features that are new or changed in SQL Server 2016. Designing an effective and scalable database using SQL Server is a task requiring skills that have been around for forty years coupled with technology that is constantly changing. Pro SQL Server Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, Louis Davidson shows how to "get it right" in SQL Server database design and lay a solid groundwork for the future use of valuable business data. The pace of change in relational database management

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systems has been tremendous these past few years. Whereas in the past it was enough to think about optimizing data residing on spinning hard drives, today one also must consider solid-state storage as well as data that are constantly held in memory and never written to disk at all except as a backup. Furthermore, there is a trend toward hybrid cloud and on-premise database configurations as well a move toward preconfigured appliances. Pro SQL Server Relational Database Design and Implementation guides in the understanding of these massive changes and in their application toward sound database design. Gives a solid foundation in best practices and relational theory Covers the latest implementation features in SQL Server 2016 Helps you master in-memory OLTP and use it effectively Takes you from conceptual design to an effective, physical implementation What You Will Learn Develop conceptual models of client data using interviews and client documentation Recognize and apply common database design patterns Normalize data models to enhance scalability and the long term use of valuable data Translate conceptual models into high-performing SQL Server databases Secure and protect data integrity as part of meeting regulatory requirements Create effective indexing to speed query performance Who This Book Is For Programmers and database administrators of all types who want to use SQL Server to store data. The book is especially useful to those wanting to learn the very latest design features in SQL Server 2016, features that include an improved approach to in-memory OLTP, durability enhancements, temporal data support, and

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more. Chapters on fundamental concepts, the language of database modeling, SQL implementation, and of course, the normalization process, lay a solid groundwork for readers who are just entering the field of database design. More advanced chapters serve the seasoned veteran by tackling the very latest in physical implementation features that SQL Server has to offer. The book has been carefully revised to cover all the design-related features that are new in SQL Server 2016.

Python-Programmierer finden in diesem Kochbuch nahezu 200 wertvolle und jeweils in sich abgeschlossene Anleitungen zu Aufgabenstellungen aus dem Bereich des Machine Learning, wie sie für die tägliche Arbeit typisch sind – von der Vorverarbeitung der Daten bis zum Deep Learning. Entwickler, die mit Python und seinen Bibliotheken einschließlich Pandas und Scikit-Learn vertraut sind, werden spezifische Probleme erfolgreich bewältigen – wie etwa Daten laden, Text und numerische Daten behandeln, Modelle auswählen, Dimensionalität reduzieren und vieles mehr. Jedes Rezept enthält Code, den Sie kopieren, zum Testen in eine kleine Beispieldatenmenge einfügen und dann anpassen können, um Ihre eigenen Anwendungen zu konstruieren. Darüber hinaus werden alle Lösungen diskutiert und wichtige Zusammenhänge hergestellt. Dieses Kochbuch unterstützt Sie dabei, den Schritt von der Theorie und den Konzepten hinein in die Praxis zu machen. Es liefert das praktische Rüstzeug, das Sie benötigen, um funktionierende Machine-Learning-Anwendungen zu entwickeln. In diesem Kochbuch finden Sie Rezepte für: Vektoren, Matrizen und Arrays den Umgang mit

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numerischen und kategorischen Daten, Texten, Bildern sowie Datum und Uhrzeit das Reduzieren der Dimensionalität durch Merkmalsextraktion oder Merkmalsauswahl Modellbewertung und -auswahl lineare und logistische Regression, Bäume und Wälder und k-nächste Nachbarn Support Vector Machine (SVM), naive Bayes, Clustering und neuronale Netze das Speichern und Laden von trainierten Modellen

Essential to database design, entity-relationship (ER) diagrams are known for their usefulness in mapping out clear database designs. They are also well-known for being difficult to master. With *Database Design Using Entity-Relationship Diagrams, Second Edition*, database designers, developers, and students preparing to enter the field can quickly learn the ins and outs of ER diagramming. Building on the success of the bestselling first edition, this accessible text includes a new chapter on the relational model and functional dependencies. It also includes expanded chapters on Enhanced Entity Relationship (EER) diagrams and reverse mapping. It uses cutting-edge case studies and examples to help readers master database development basics and defines ER and EER diagramming in terms of requirements (end user requests) and specifications (designer feedback to those requests). Describes a step-by-step approach for producing an ER diagram and developing a relational database from it Contains exercises, examples, case studies, bibliographies, and summaries in each chapter Details the rules for mapping ER diagrams to relational databases Explains how to reverse engineer a relational database back to an entity-relationship model

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Includes grammar for the ER diagrams that can be presented back to the user The updated exercises and chapter summaries provide the real-world understanding needed to develop ER and EER diagrams, map them to relational databases, and test the resulting relational database. Complete with a wealth of additional exercises and examples throughout, this edition should be a basic component of any database course. Its comprehensive nature and easy-to-navigate structure makes it a resource that students and professionals will turn to throughout their careers.

A hands-on beginner's guide to designing relational databases and managing data using Microsoft Access Relational databases represent one of the most enduring and pervasive forms of information technology. Yet most texts covering relational database design assume an extensive, sophisticated computer science background. There are texts on relational database software tools like Microsoft Access that assume less background, but they focus primarily on details of the user interface, with inadequate coverage of the underlying design issues of how to structure databases. Growing out of Professor Jonathan Eckstein's twenty years' experience teaching courses on management information systems (MIS) at Rutgers Business School, this book fills this gap in the literature by providing a rigorous introduction to relational databases for readers without prior computer science or programming experience. Relational Database Design for Business, with Microsoft Access helps readers to quickly develop a thorough, practical understanding of relational database design. It takes a step-by-

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step, real-world approach, using application examples from business and finance every step the way. As a result, readers learn to think concretely about database design and how to address issues that commonly arise when developing and manipulating relational databases. By the time they finish the final chapter, students will have the knowledge and skills needed to build relational databases with dozens of tables. They will also be able to build complete Microsoft Access applications around such databases. This text: Takes a hands-on approach using numerous real-world examples drawn from the worlds of business, finance, and more Gets readers up and running, fast, with the skills they need to use and develop relational databases with Microsoft Access Moves swiftly from conceptual fundamentals to advanced design techniques Leads readers step-by-step through data management and design, relational database theory, multiple tables and the possible relationships between them, Microsoft Access features such as forms and navigation, formulating queries in SQL, and normalization Introductory Relational Database Design for Business, with Microsoft Access is the definitive guide for undergraduate and graduate students in business, finance, and data analysis without prior experience in database design. While Microsoft Access is its primary “hands-on” learning vehicle, most of the skills in this text are transferrable to other relational database software such as MySQL. Addressing important extensions of the relational database model, including deductive, temporal, and object-oriented databases, this book provides an overview of database

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modeling with the Entity-Relationship (ER) model and the relational model. The book focuses on the primary achievements in relational database theory, including query languages, integrity constraints, database design, computable queries, and concurrency control. This reference will shed light on the ideas underlying relational database systems and the problems that confront database designers and researchers. The #1 Easy, Commonsense Guide to Database Design! Michael J. Hernandez's best-selling Database Design for Mere Mortals® has earned worldwide respect as the clearest, simplest way to learn relational database design. Now, he's made this hands-on, software-independent tutorial even easier, while ensuring that his design methodology is still relevant to the latest databases, applications, and best practices. Step by step, Database Design for Mere Mortals®, Third Edition, shows you how to design databases that are soundly structured, reliable, and flexible, even in modern web applications. Hernandez guides you through everything from database planning to defining tables, fields, keys, table relationships, business rules, and views. You'll learn practical ways to improve data integrity, how to avoid common mistakes, and when to break the rules. Coverage includes Understanding database types, models, and design terminology Discovering what good database design can do for you—and why bad design can make your life miserable Setting objectives for your database, and transforming those objectives into real designs Analyzing a current database so you can identify ways to improve it Establishing table structures and relationships, assigning

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primary keys, setting field specifications, and setting up views Ensuring the appropriate level of data integrity for each application Identifying and establishing business rules Whatever relational database systems you use, Hernandez will help you design databases that are robust and trustworthy. Never designed a database before? Settling for inadequate generic designs? Running existing databases that need improvement? Start here.

" 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

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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 databasesPresents design approaches that ensure data accuracy and consistency and help boost performanceIncludes three case studies, each illustrating a different database design challengeReviews the basic concepts of databases and database design, then turns to creating, populating, and retrieving data using SQL

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

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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.

Database Systems is ideal for a one- or two-term course in database management or database design in an undergraduate or graduate level course. With its comprehensive coverage, this book can also be used as a reference for IT professionals. This best-selling text introduces the theory behind databases in a concise yet comprehensive manner, providing database design methodology that can be used by both technical and non-technical readers. The methodology for relational Database Management Systems is presented in simple, step-by-step instructions in conjunction with a realistic worked example using three explicit phases—conceptual, logical, and physical database design. Teaching and Learning Experience This program presents a better teaching and learning experience—for you and your students. It provides: Database Design Methodology that can be Used by Both Technical and Non-technical Readers A Comprehensive Introduction to the Theory behind Databases A Clear Presentation that Supports Learning

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Strengthen your understanding of database management today with the hands-on, thorough presentation found in **CONCEPTS OF DATABASE MANAGEMENT**, 10th Edition. Real cases, practical examples and helpful screenshots with concise explanations clarify database design, data integrity, normalization, concurrent updates, data security and big data. Completely updated content reflects Microsoft Access 2019, Office 365 standards and SQL Server 2019, while exploring SQL in a database-neutral environment. Detailed coverage presents the relational model (including QBE and SQL), normalization and views as well as database administration and management. You also examine advanced topics, such as distributed databases, data warehouses, stored procedures, triggers, data macros and Web Apps. Trust this contemporary introduction to help you master today's database techniques to advance your career in any field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Six-Step Relational Database Design A Step by Step Approach to Relational Database Design and Development Fidel A Captain

Einführungen in MySQL gibt es viele. Wer aber größere MySQL-Server betreut, die verlässlich laufen müssen, egal was Programmierer oder Benutzer auf sie loslassen, der braucht weiter reichende Informationen. In High Performance

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MySQL beschreiben sechs anerkannte Experten mit langjähriger Erfahrung auf großen Systemen alle Stellschrauben, an denen MySQL-Admins drehen können, um Sicherheit, Performance, Datenintegrität und Robustheit zu erhöhen. Von Profis für Profis Hier geht es nicht um kleine Webauftritte mit Datenbankanbindung! Lernen Sie stattdessen fortgeschrittene Techniken kennen, mit denen Sie MySQLs Potenzial voll ausreizen können -- um große, skalierbare Systeme zu entwerfen, zu optimieren und zu sichern. Behandelt werden Benchmarking, Indizes, Storage-Engines, Replikationen, Lastverteilung und Hochverfügbarkeit, Backups, Sicherheit... und zu jedem Aspekt die richtigen Werkzeuge, mit denen sich Ihre Ziele am besten realisieren lassen. Praxiserprobt muss es sein Der eine ist MySQL-Guru bei Yahoo!, der andere Angestellter Nr. 25 bei MySQL AB und dort nacheinander für das MySQL-Manual, die Trainingskurse und die Entwicklung des Supports zuständig, wieder ein anderer war bei MySQL AB im High-Performance-Team – die Autoren dieses Buchs wissen, wovon sie sprechen. Graue Theorie finden Sie woanders, hier geht es um bewährte Techniken aus der Praxis. Die erste Auflage von „High Performance MySQL“ wurde hoch gelobt und hat schon unzähligen Lesern wertvolle Dienste geleistet. Nun war es an der Zeit, dieses anerkannte Handbuch einmal komplett zu aktualisieren, um nützliches Referenzmaterial zu erweitern,

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neue Features der Versionen MySQL 5.0 und 5.1 zu ergänzen und zahlreiche Themen wie die Optimierung der Storage-Engine InnoDB zu vertiefen. Improve the performance of relational databases with indexes designed for today's hardware Over the last few years, hardware and software have advanced beyond all recognition, so it's hardly surprising that relational database performance now receives much less attention. Unfortunately, the reality is that the improved hardware hasn't kept pace with the ever-increasing quantity of data processed today. Although disk packing densities have increased enormously, making storage costs extremely low and sequential read very fast, random reads are still painfully slow. Many of the old design recommendations are therefore no longer valid-the optimal point of indexing has come a long way. Consequently many of the old problems haven't actually gone away-they have simply changed their appearance. This book provides an easy but effective approach to the design of indexes and tables. Using lots of examples and case studies, the authors describe how the DB2, Oracle, and SQL Server optimizers determine how to access data, and how CPU and response times for the resulting access paths can be quickly estimated. This enables comparisons to be made of the various designs, and helps you choose available choices for the most appropriate design. This book is intended for anyone who wants to understand the issues of

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SQL performance or how to design tables and indexes effectively. With this title, readers with many years of experience of relational systems will be able to better grasp the implications that have been brought into play by the introduction of new hardware.

Semistructured Database Design provides an essential reference for anyone interested in the effective management of semistructured data. Since many new and advanced web applications consume a huge amount of such data, there is a growing need to properly design efficient databases. This volume responds to that need by describing a semantically rich data model for semistructured data, called Object-Relationship-Attribute model for Semistructured data (ORA-SS). Focusing on this new model, the book discusses problems and presents solutions for a number of topics, including schema extraction, the design of non-redundant storage organizations for semistructured data, and physical semistructured database design, among others. Semistructured Database Design, presents researchers and professionals with the most complete and up-to-date research in this fast-growing field.

Learn effective and scalable database design techniques in a SQL Server environment. Pro SQL Server 2008 Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of

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the design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, authors Louis Davidson, Kevin Kline, Scott Klein, and Kurt Windisch show how to 'get it right' in SQL Server database design and lay a solid groundwork for the future use of valuable business data. Solid foundation in best practices and relational theory Maximize SQL Server features to enhance security, performance, scalability Thorough treatment from conceptual design to an effective, physical implementation

SQL kann Spaß machen! Es ist ein erhebendes Gefühl, eine verworrene Datenmanipulation oder einen komplizierten Report mit einer einzigen Anweisung zu bewältigen und so einen Haufen Arbeit vom Tisch zu bekommen. Einführung in SQL bietet einen frischen Blick auf die Sprache, deren Grundlagen jeder Entwickler beherrschen muss. Die aktualisierte 2. Auflage deckt die Versionen MySQL 6.0, Oracle 11g und Microsoft SQL Server 2008 ab. Außerdem enthält sie neue Kapitel zu Views und Metadaten. SQL-Basics - in null Komma nichts durchstarten: Mit diesem leicht verständlichen Tutorial können Sie SQL systematisch und gründlich lernen, ohne sich zu langweilen. Es führt Sie rasch durch die Basics der Sprache und vermittelt darüber hinaus eine Reihe von häufig genutzten fortgeschrittenen Features. Mehr aus SQL-Befehlen herausholen: Alan Beaulieu will mehr vermitteln als die simple Anwendung von SQL-Befehlen: Er legt Wert auf ein tiefes Verständnis der SQL-Features und behandelt daher auch den Umgang mit Mengen, Abfragen innerhalb von Abfragen oder die überaus nützlichen eingebauten Funktionen von SQL. Die MySQL-Beispieldatenbank: Es gibt zwar viele Datenbankprodukte auf dem Markt, aber welches wäre zum Erlernen von SQL besser geeignet als MySQL, das weit verbreitete relationale Datenbanksystem? Der Autor hilft Ihnen, eine MySQL-Datenbank anzulegen, und nutzt diese für die Beispiele in diesem Buch. Übungen

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mit Lösungen: Zu jedem Thema finden Sie im Buch gut durchdachte Übungen mit Lösungen. So ist sichergestellt, dass Sie schnell Erfolgserlebnisse haben und das Gelernte auch praktisch umsetzen können.

Until now, almost all books on logical database design focused exclusively on relational design. However, modern database management systems have added powerful features that have driven a movement away from truly normalized database design. Logical Database Design Principles reflects these recent changes. The book begins by covering traditional logical design principles, followed by an analysis of the normalizing and modeling of data. It then examines designing for specific purposes, such as object-oriented databases, online transaction processing (OLTP), and data warehouses. As the text progresses, it moves from the purely logical into some physical design, as determined by how the features of modern databases are implemented. Because this is a logical-design book, the authors attempt to make the examples database-neutral. Because various vendors implement features in different ways, this volume sometimes offers examples from a specific database management system. When necessary, it highlights a specific application, clearly demonstrating the concept being discussed.

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

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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

This book brings all of the elements of database design together in a single volume, saving the reader the time and expense of making multiple purchases. It consolidates both introductory and advanced topics, thereby covering the gamut of database design methodology ? from ER and UML techniques, to conceptual data modeling and table transformation, to storing XML and querying moving objects databases. The proposed book expertly combines the finest database design material from the Morgan Kaufmann portfolio. Individual chapters are derived from a select group of MK books authored by the best and brightest in the field. These chapters are combined into one comprehensive volume in a way that allows it to be used as a reference work for those interested in new and developing aspects of database design. This book represents a quick and efficient way to unite valuable content from leading database design experts, thereby creating a definitive, one-stop-shopping opportunity for customers to

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receive the information they would otherwise need to round up from separate sources. Chapters contributed by various recognized experts in the field let the reader remain up to date and fully informed from multiple viewpoints. Details multiple relational models and modeling languages, enhancing the reader's technical expertise and familiarity with design-related requirements specification. Coverage of both theory and practice brings all of the elements of database design together in a single volume, saving the reader the time and expense of making multiple purchases.

Entity-relationship (E-R) diagrams are time-tested models for database development well-known for their usefulness in mapping out clear database designs. Also commonly known is how difficult it is to master them. With this comprehensive guide, database designers and developers can quickly learn all the ins and outs of E-R diagramming to become experts. This text provides a solid and practical foundation for the design, implementation, and management of databases. The authors focus on the core concepts of database design and theory, which lay the groundwork for designing highly functional and sound databases. Learn effective and scalable database design techniques in a SQL Server environment. Pro SQL Server 2012 Relational Database Design and Implementation covers everything from design logic that business users will understand, all the way to the physical implementation of design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, Louis Davidson shows how to "get it right" in SQL Server database design and lay a solid groundwork for the future use of valuable business data. Gives a solid foundation in best practices and relational theory Covers the latest implementation features in SQL Server Takes you from conceptual design to an effective, physical implementation

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Business Database Systems arms you with the knowledge to analyse, design and implement effective, robust and successful databases. This book is ideal for students of Business/Management Information Systems, or Computer Science, who will be expected to take a course in database systems for their degree programme. It is also excellently suited to any practitioner who needs to learn, or refresh their knowledge of, the essentials of database management systems.

This book provides a concise presentation of the basic principles of database design. It deals with the widely accepted core definitions and conclusions that can be precisely stated and proven. Most of the topics covered are essential to the concluding chapter on "normalization" — a knowledge of which is crucial for avoiding problematic database designs. In addition to brevity, the structure of the book is meant to minimize page turning by making it unnecessary to flip back to previous pages. For example, to allow the reader to view all the information on a topic at once, the text appears on the left and the corresponding examples on the right of facing pages. The book consists of five chapters as follows: The first two describe the basic techniques of modeling the real world with a database. Chapter Three covers common "operations" one can do with a database. Most of these operations pertain to using rather than designing a database; however, a few of them are also crucial for design. "Dependency and decomposition" — important in their own right and also required for the final chapter — receive a comprehensive treatment in Chapter Four. The book concludes with Chapter Five's

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coverage of normalization where the levels of good database design are defined along with procedures for attaining these levels. Also, problems that can occur when a database is not at a given level are described and illustrated by examples.

Readers gain a solid foundation in database design and implementation with the practical and easy-to-understand approach in DATABASE SYSTEMS: DESIGN, IMPLEMENTATION, AND MANAGEMENT, 12E. Filled with diagrams, illustrations, and tables, this market-leading text provides in-depth coverage of database design.

Readers learn the key to successful database implementation: proper design of databases to fit within a larger strategic view of the data environment. Renowned for its clear, straightforward writing style, this text provides an outstanding balance of theory and practice. Updates include the latest coverage of cloud data services and a new chapter on Big Data Analytics and NoSQL, including related Hadoop technologies. In addition, new review questions, problem sets, and cases offer multiple opportunities to test understanding and develop useful design skills. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Easy-to-read writing style. Comprehensive coverage of all database topics. Bullet lists and tables. More detailed examples of database implementations. More SQL, including significant information on planned revisions to the language. Simple and easy explanation to complex topics like relational algebra, relational calculus, query

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processing and optimization. Covers topics on implementation issues like security, integrity, transaction management, concurrency control, backup and recovery etc. Latest advances in database technology.

Database Modeling and Design, Fifth Edition, focuses on techniques for database design in relational database systems. This extensively revised fifth edition features clear explanations, lots of terrific examples and an illustrative case, and practical advice, with design rules that are applicable to any SQL-based system. The common examples are based on real-life experiences and have been thoroughly class-tested. This book is immediately useful to anyone tasked with the creation of data models for the integration of large-scale enterprise data. It is ideal for a stand-alone data management course focused on logical database design, or a supplement to an introductory text for introductory database management. In-depth detail and plenty of real-world, practical examples throughout Loaded with design rules and illustrative case studies that are applicable to any SQL, UML, or XML-based system Immediately useful to anyone tasked with the creation of data models for the integration of large-scale enterprise data.

Six-Step Relational Database Design™ bridges the gaps between database theory, database modeling, and database implementation by outlining a simple but reliable six-step process for accurately modeling user data on a Crow's Foot Relational Model Diagram, and then demonstrating how to implement this model on any relational

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database management system. The second edition contains a new chapter on implementation that goes through the steps necessary to implement each of the case studies on a relational database management system, clearly relating the design to implementation and database theory. In addition, questions are also included at the end of each of the six steps and one of the previous case studies has been replaced, making the case study selection more diverse. Six-Step Relational Database Design™ uses three case studies and starts with a statement of the problem by the client and then goes through the six steps necessary to create a reliable and accurate data model of the client's business requirements. This model can then be used to implement the database on any relational database management system. Six-Step Relational Database Design™ should be used as a handbook for students and professionals in the software-development field. The technique described in this book can be used by students for quickly developing relational databases for their applications, and by professionals for developing sturdy, reliable, and accurate relational database models for their software applications.

Refined and streamlined, SYSTEMS ANALYSIS AND DESIGN IN A CHANGING WORLD, 7E helps students develop the conceptual, technical, and managerial foundations for systems analysis design and implementation as well as project management principles for systems development. Using case driven techniques, the succinct 14-chapter text focuses on content that is key for success in today's market.

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The authors' highly effective presentation teaches both traditional (structured) and object-oriented (OO) approaches to systems analysis and design. The book highlights use cases, use diagrams, and use case descriptions required for a modeling approach, while demonstrating their application to traditional, web development, object-oriented, and service-oriented architecture approaches. The Seventh Edition's refined sequence of topics makes it easier to read and understand than ever. Regrouped analysis and design chapters provide more flexibility in course organization. Additionally, the text's running cases have been completely updated and now include a stronger focus on connectivity in applications. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

In today's information age, databases have become primary tools for information organization and retrieval. Almost every organization, whether small or large, is dependent on use of databases. Among various types of databases, relational databases dominate because of their simplicity and ease of use. A relational database management system (RDBMS) is a tool used to manage a relational database. This book uses Microsoft Access 2010, a mid-range RDBMS, to teach the fundamentals of relational databases design, development, maintenance, and application development. The book has been written in simple language and focused and succinct manner. The book uses a visual approach avoiding lengthy text. This approach allows readers to efficiently utilize their reading time and master the material provided in minimum

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possible time. The readers will learn to create and link various database elements such as forms, queries, reports, and macros. This book is useful for undergrad and graduate students, professionals, and anyone looking to gain a solid foundation to continue their learning of relational databases.

Daten stehen heute im Mittelpunkt vieler Herausforderungen im Systemdesign. Dabei sind komplexe Fragen wie Skalierbarkeit, Konsistenz, Zuverlässigkeit, Effizienz und Wartbarkeit zu klären. Darüber hinaus verfügen wir über eine überwältigende Vielfalt an Tools, einschließlich relationaler Datenbanken, NoSQL-Datenspeicher, Stream- und Batchprocessing und Message Broker. Aber was verbirgt sich hinter diesen Schlagworten? Und was ist die richtige Wahl für Ihre Anwendung? In diesem praktischen und umfassenden Leitfaden unterstützt Sie der Autor Martin Kleppmann bei der Navigation durch dieses schwierige Terrain, indem er die Vor- und Nachteile verschiedener Technologien zur Verarbeitung und Speicherung von Daten aufzeigt. Software verändert sich ständig, die Grundprinzipien bleiben aber gleich. Mit diesem Buch lernen Softwareentwickler und -architekten, wie sie die Konzepte in der Praxis umsetzen und wie sie Daten in modernen Anwendungen optimal nutzen können. Inspizieren Sie die Systeme, die Sie bereits verwenden, und erfahren Sie, wie Sie sie effektiver nutzen können Treffen Sie fundierte Entscheidungen, indem Sie die Stärken und Schwächen verschiedener Tools kennenlernen Steuern Sie die notwendigen Kompromisse in Bezug auf Konsistenz, Skalierbarkeit, Fehlertoleranz und Komplexität Machen Sie sich vertraut mit dem Stand der Forschung zu verteilten Systemen, auf denen moderne Datenbanken aufbauen Werfen Sie einen Blick hinter die Kulissen der wichtigsten Onlinedienste und lernen Sie von deren

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Architekturen

Fully revised and updated, *Relational Database Design, Second Edition* is the most lucid and effective introduction to relational database design available. Here, you'll find the conceptual and practical information you need to develop a design that ensures data accuracy and user satisfaction while optimizing performance, regardless of your experience level or choice of DBMS. Supporting the book's step-by-step instruction are three case studies illustrating the planning, analysis, and design steps involved in arriving at a sound design. These real-world examples include object-relational design techniques, which are addressed in greater detail in a new chapter devoted entirely to this timely subject. * Concepts you need to master to put the book's practical instruction to work. * Methods for tailoring your design to the environment in which the database will run and the uses to which it will be put. * Design approaches that ensure data accuracy and consistency. * Examples of how design can inhibit or boost database application performance. * Object-relational design techniques, benefits, and examples. * Instructions on how to choose and use a normalization technique. * Guidelines for understanding and applying Codd's rules. * Tools to implement a relational design using SQL. * Techniques for using CASE tools for database design.

Transformation of Knowledge, Information and Data: Theory and Applications considers transformations within the context of computing science and information science, as they are essential in changing organizations. This book not only considers transformations of structured models, rather, the transformation of instances (i.e. the actual contents of those structures) is addressed as well.

This book places a strong emphasis on good design practice, allowing readers to master

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design methodology in an accessible, step-by-step fashion. In this book, database design methodology is explicitly divided into three phases: conceptual, logical, and physical. Each phase is described in a separate chapter with an example of the methodology working in practice. Extensive treatment of the Web as an emerging platform for database applications is covered alongside many code samples for accessing databases from the Web including JDBC, SQLJ, ASP, ISP, and Oracle's PSP. A thorough update of later chapters covering object-oriented databases, Web databases, XML, data warehousing, data mining is included in this new edition. A clear introduction to design implementation and management issues, as well as an extensive treatment of database languages and standards, make this book an indispensable, complete reference for database professionals.

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