
Database Design For Mere Mortals

*Database Design For
Mere Mortals*

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Database Design for Mere Mortals

A Hands-on Guide to Relational Database Design *Pearson Education*

A guide to relational database design covers such topics as setting objectives, establishing table structures, and identifying and establishing business

rules.

Database Design for Mere Mortals

A Hands-on Guide to Relational Database Design *Addison-Wesley Professional*

"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 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 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 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 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.

Database Design for Mere Mortals

A Hands-On Guide to Relational

Database Design *Addison-Wesley Professional*

&a>Database Design for Mere Mortals™, 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 book will give you the knowledge and tools you need to create efficient and effective relational databases.

Database Design for Mere Mortals

25th Anniversary Edition *Addison-Wesley Professional*

A guide to relational database design covers such topics as setting objectives, establishing table structures, and identifying and establishing business rules.

SQL Queries for Mere Mortals

A Hands-on Guide to Data Manipulation in SQL *Addison-Wesley Professional*

"Master every business SQL skill you need! Grouping, totaling, summaries, modifying databases, integrating data from multiple tables, and much more! Includes video introduction, 2+ hours of expert audio commentary, 200+ animated figures, 100+ self review questions, 100+ exercises, searching, hyperlinking, and more."--Container.

NoSQL for Mere Mortals *Pearson Education*

NoSQL was developed to overcome the limitations of relational databases in the largest Web applications at companies such as Google, Yahoo and Facebook. As it is applied more widely, developers are finding that it can simplify scalability while requiring far less coding and management overhead. However, NoSQL requires fundamentally different approaches to database design and modeling, and many conventional relational techniques lead to suboptimal results. ¿ NoSQL for Mere Mortals is an easy, practical guide to succeeding with NoSQL in your environment. Following the classic, best-selling format pioneered in SQL Queries for Mere Mortals, enterprise database expert Dan Sullivan guides you step-by-step through choosing technologies, designing high-performance databases, and planning for long-term maintenance. ¿ Sullivan introduces each type of NoSQL database, shows how to install and manage them, and demonstrates how to leverage their features while avoiding common mistakes that lead to poor performance and unmet requirements. He uses four popular NoSQL databases as reference models: MongoDB, a document database; Cassandra, a column family data store; Redis, a key-value database; and Neo4j, a graph database. You'll find explanations of each database's structure and capabilities, practical guidelines for choosing amongst them, and expert guidance on designing databases with them. ¿ Packed with examples, NoSQL for Mere Mortals is today's best way to master NoSQL -- whether you're a DBA, developer, user, or student.

SQL Queries for Mere Mortals

A Hands-on Guide to Data

Manipulation in SQL *Pearson Education*

Presents a guide to writing effective SQL queries, from simple data selection and filtering to joining multiple tables and modifying sets of data, with information on how to solve a variety of challenging SQL problems.

Beginning Database Design Solutions *John Wiley & Sons*

The vast majority of software applications use relational databases that virtually every application developer must work with. This book introduces you to database design, whether you're a DBA or database developer. You'll discover what databases are, their goals, and why proper design is necessary to achieve those goals. Additionally, you'll master how to structure the database so it gives good performance while minimizing the chance for error. You will learn how to decide what should be in a database to meet the application's requirements.

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

Six-Step Relational Database DesignTM 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 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 DesignTM 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 DesignTM 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.

Beginning Database Design**From Novice to Professional** *Apress*

Beginning Database Design, Second Edition provides short, easy-to-read explanations of how to get database design right the first time. This book offers numerous examples to help you avoid the many pitfalls that entrap new and not-so-new database designers. Through the help of use cases and class diagrams modeled in the UML, you'll learn to discover and represent the details and scope of any design problem you choose to attack. Database design is not an exact science. Many are surprised to find that problems with their databases are caused by poor design

rather than by difficulties in using the database management software. *Beginning Database Design, Second Edition* helps you ask and answer important questions about your data so you can understand the problem you are trying to solve and create a pragmatic design capturing the essentials while leaving the door open for refinements and extension at a later stage. Solid database design principles and examples help demonstrate the consequences of simplifications and pragmatic decisions. The rationale is to try to keep a design simple, but allow room for development as situations change or resources permit. Provides solid design principles by which to avoid pitfalls and support changing needs. Includes numerous examples of good and bad design decisions and their consequences. Shows a modern method for documenting design using the Unified Modeling Language.

Database in Depth

Relational Theory for Practitioners

"O'Reilly Media, Inc."

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.

Database Design and Relational Theory

Normal Forms and All That Jazz

"O'Reilly Media, Inc."

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.

Database Design for Mere Mortals

A Hands-on Guide to Relational

Database Design *Addison-Wesley Professional*

Database design expert Michael J. Hernandez introduces the core concepts of design theory and method without the technical jargon. With its hands-on approach and a wealth of practical examples, *Database Design for Mere Mortals* will provide any developer with a common-sense design methodology for developing databases that work.

Relational Database Design and Implementation *Morgan Kaufmann*

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.

A Practical Guide to Database Design *CRC Press*

Fully updated and expanded from the previous edition, *A Practical Guide to Database Design, Second Edition*, is intended for those involved in the design or development of a database system or application. It begins by focusing on how to create a logical data model where data is stored "where it belongs." Next, data usage is reviewed to transform the logical model into a physical data model that will satisfy user performance requirements. Finally, it describes how to use various software tools to create user interfaces to review and update data in a database. Organized into 11 chapters, the book begins with an overview of the functionality of database management systems and how they guarantee the accuracy and availability of data. It then describes how to define and normalize data requirements to create a logical data model, then map them into an initial solution for a physical database. The book next presents how to use an industry-leading data modeling tool to define and manage logical and physical data models. After that, it describes how to implement a physical database using either Microsoft Access or SQL Server and how to use Microsoft Access to create windows interfaces to query or update data in tables. The last part of the book reviews software tools and

explores the design and implementation of a database using as an example a much more complex data environment for a University. The book ends with a description of how to use PHP to build a web-based interface to review and update data in a database.

Databases: A Beginner's Guide. *Tata McGraw-Hill Education*

Written by a database technology instructor and bestselling author, this book offers a proven, self-paced technique for learning how to design, implement, maintain, and use databases. You can follow clear examples and step-by-step instructions that cover the fundamental concepts and demonstrate how to effectively apply them. With a focus on proper database design, *Databases: A Beginner's Guide* provides an introduction to Structured Query Language (SQL) and Microsoft Access. The book covers key topics such as security, data warehouse and data mart design techniques, storing complex data such as XML documents, and connecting databases to applications.

Relational Database Design Clearly Explained *Morgan Kaufmann*

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.

Database Internals

A Deep Dive into How Distributed Data Systems Work *O'Reilly Media*

When it comes to choosing, using, and maintaining a database, understanding its internals is essential. But with so many distributed databases and tools available today, it's often difficult to understand what each one offers and how they differ. With this practical guide, Alex Petrov guides developers through the concepts behind modern database and storage engine internals. Throughout the book, you'll explore relevant material gleaned from numerous books, papers, blog posts, and the source code of several open source databases. These resources are listed at the end of parts one and two. You'll discover that the most significant distinctions among many modern databases reside in subsystems that

determine how storage is organized and how data is distributed. This book examines: Storage engines: Explore storage classification and taxonomy, and dive into B-Tree-based and immutable Log Structured storage engines, with differences and use-cases for each Storage building blocks: Learn how database files are organized to build efficient storage, using auxiliary data structures such as Page Cache, Buffer Pool and Write-Ahead Log Distributed systems: Learn step-by-step how nodes and processes connect and build complex communication patterns Database clusters: Which consistency models are commonly used by modern databases and how distributed storage systems achieve consistency

Pro SQL Server Relational Database Design and Implementation Apress

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 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 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.

Database Design for Mere Mortals?

Database Design Using Entity-Relationship Diagrams *CRC Press*

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 expe

Introductory Relational Database Design for Business, with Microsoft Access *John Wiley & Sons*

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-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.

Database Design for Mere Mortals

25th Anniversary Edition, 4th Edition

The #1 Easy, Commonsense Guide to Database Design Now Updated Foreword by Michelle Poolet, Mount Vernon Data Systems LLC Michael J. Hernandez's best-selling Database Design for Mere Mortals has earned worldwide respect as the simplest way to learn relational database design. Now, he's made this hands-on, software independent tutorial even clearer and easier to use. Step by step, this new 25th Anniversary Edition shows you how to design modern databases that are soundly structured, reliable, and flexible, even in the latest online applications. Hernandez guides you through everything from 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. Updated review questions and figures help you learn these techniques more easily and effectively. Understand database types, models, and design terminology Perform interviews to efficiently capture requirements even if everyone's working remotely Set clear design objectives and transform them into effective designs Analyze a current

database so you can identify ways to improve it Establish table structures and relationships, assign primary keys, set field specifications, and set up views Ensure the correct level of data integrity for each database Identify and establish business rules Preview and prepare for the future of relational databases 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.

Access Cookbook

Solutions to Common User Interface & Programming Problems "O'Reilly Media, Inc."

Not a reference book, and not a tutorial either, the new second edition of the highly regarded Access Cookbook is an uncommonly useful collection of solutions to problems that Access users and developers are likely to face as they attempt to build increasingly complex applications. Although using any single "recipe" in the book will more than pay back the cost of the book in terms of both hours saved and frustration thwarted, Access Cookbook, Second Edition is much more than a handy assortment of cut-and-paste code. Each of the "recipes" examine a particular problem--problems that commonly occur when you push the upper limits of Access, or ones that are likely to trip up a developer attempting to design a more elegant Access application--even some things you never knew Access could do. The authors then, in a clear, accessible, step-by-step style, present the problems' solution. Following each "recipe" are insights on how Access works, potential

pitfalls, interesting programming techniques that are used in the solution, and how and why the solution works, so you can adapt the problem-solving techniques to other similar situations. Fully updated for Access 2003, *Access Cookbook, Second Edition* is also one of the first books to thoroughly explore new support for .NET managed code and XML. All of the practical, real-world examples have been tested for compatibility with Access 2003, Windows XP, and Windows Server 2003. This updated new edition also covers Access and SharePoint, Access and SmartTags, Access and .NET; and Access and XML. Access power users and programmers at all levels, from the relatively inexperienced to the most sophisticated, will rely on the *Access Cookbook* for quick solutions to gnarly problems. With a dog-eared copy of *Access Cookbook* at your side, you can spend your time and energy where it matters most: working on the interesting facets of your Access application, not just the time-consuming ones.

Fundamentals of Software Architecture

An Engineering Approach *O'Reilly Media*

Salary surveys worldwide regularly place software architect in the top 10 best jobs, yet no real guide exists to help developers become architects. Until now. This book provides the first comprehensive overview of software architecture's many aspects. Aspiring and existing architects alike will examine architectural characteristics, architectural patterns, component determination, diagramming and presenting architecture, evolutionary architecture, and many other topics.

Mark Richards and Neal Ford—hands-on practitioners who have taught software architecture classes professionally for years—focus on architecture principles that apply across all technology stacks. You'll explore software architecture in a modern light, taking into account all the innovations of the past decade. This book examines: Architecture patterns: The technical basis for many architectural decisions Components: Identification, coupling, cohesion, partitioning, and granularity Soft skills: Effective team management, meetings, negotiation, presentations, and more Modernity: Engineering practices and operational approaches that have changed radically in the past few years Architecture as an engineering discipline: Repeatable results, metrics, and concrete valuations that add rigor to software architecture

Learning SQL

Master SQL Fundamentals *O'Reilly Media*

Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, *Learning SQL, Second Edition*, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to

generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

Practical Issues in Database Management

A Reference for the Thinking Practitioner *Addison-Wesley Professional*

The aim of this work is to provide a correct and up-to-date understanding of the practical aspects of crucial, yet little-understood core database issues. The author identifies fundamental concepts, principles, and techniques and assesses the treatment of those issues in SQL (both the standard and commercial implementations) and gives advice on how to deal with them. Topics covered include complex data types, missing information, data hierarchies, and quota queries. Annotation copyrighted by Book News, Inc., Portland, OR

Relational Database Practices

Bridging the Gap Between the Theory of Database Design and Real-World Practices

The Language of SQL *Addison-Wesley Professional*

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that

may come packaged with the bound book. The Language of SQL, Second Edition Many SQL texts attempt to serve as an encyclopedic reference on SQL syntax -- an approach that is often counterproductive, because that information is readily available in online references published by the major database vendors. For SQL beginners, it's more important for a book to focus on general concepts and to offer clear explanations and examples of what various SQL statements can accomplish. This is that book. A number of features make The Language of SQL unique among introductory SQL books. First, you will not be required to download software or sit with a computer as you read the text. The intent of this book is to provide examples of SQL usage that can be understood simply by reading. Second, topics are organized in an intuitive and logical sequence. SQL keywords are introduced one at a time, allowing you to grow your understanding as you encounter new terms and concepts. Finally, this book covers the syntax of three widely used databases: Microsoft SQL Server, MySQL, and Oracle. Special "Database Differences" sidebars clearly show you any differences in syntax among these three databases, and instructions are included on how to obtain and install free versions of the databases. This is the only book you need to gain a quick working knowledge of SQL and relational databases. ·Learn How To... Use SQL to retrieve data from relational databases Apply functions and calculations to data Group and summarize data in a variety of useful ways Use complex logic to retrieve only the data you need Update data and create new tables Design relational databases so that data retrieval is easy and intuitive Use

spreadsheets to transform your data into meaningful displays Retrieve data from multiple tables via joins, subqueries, views, and set logic Create, modify, and execute stored procedures Install Microsoft SQL Server, MySQL, or Oracle

Databases Demystified *McGraw Hill Professional*

Through clear language, step-by-step discussions, and quizzes at the end of each chapter, the author makes databases easy. Quickly learn the core skills needed to design, configure, manage, and manipulate databases, whether at work or at home. Topics such as exploring different database models, planning their design, minimizing redundant data, designing tables, applying database design concepts, and implementing database security are covered. This is that fast, easy-to-understand tutorial that you've been looking for.

Pro SQL Server Relational Database Design and Implementation

Best Practices for Scalability and Performance *Apress*

Learn effective and scalable database design techniques in SQL Server 2019 and other recent SQL Server versions. This book is revised to cover additions to SQL Server that include SQL graph enhancements, in-memory online transaction processing, temporal data storage, row-level security, and other design-related features. This book will help you design OLTP databases that are high-quality, protect the integrity of your data, and perform fast on-premises, in the cloud, or in hybrid configurations. Designing an effective and scalable database using SQL Server is a task requiring skills that have been around

for well over 30 years, using technology that is constantly changing. This book covers everything from design logic that business users will understand to the physical implementation of design in a SQL Server database. Grounded in best practices and a solid understanding of the underlying theory, author Louis Davidson shows you how to "get it right" in SQL Server database design and lay a solid groundwork for the future use of valuable business data. What You Will Learn Develop conceptual models of client data using interviews and client documentation Implement designs that work on premises, in the cloud, or in a hybrid approach Recognize and apply common database design patterns Normalize data models to enhance integrity and scalability of your databases for 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 Understand the concepts of concurrency Who This Book Is For Programmers and database administrators of all types who want to use SQL Server to store transactional data. The book is especially useful to those wanting to learn the latest database design features in SQL Server 2019 (features that include graph objects, in-memory OLTP, temporal data support, and more). Chapters on fundamental concepts, the language of database modeling, SQL implementation, and 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 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 2019.

Hands-On Database *Pearson Higher Ed*

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Hands-On Database uses a scenario-based approach that shows readers how to build a database by providing them with the context of a running case throughout each step of the process.

Making Sense of NoSQL

A guide for managers and the rest of us *Simon and Schuster*

Summary Making Sense of NoSQL clearly and concisely explains the concepts, features, benefits, potential, and limitations of NoSQL technologies. Using examples and use cases, illustrations, and plain, jargon-free writing, this guide shows how you can effectively assemble a NoSQL solution to replace or augment the traditional RDBMS you have now. About this Book If you want to understand and perhaps start using the new data storage and analysis technologies that go beyond the SQL database model, this book is for you. Written in plain language suitable for technical managers and developers, and using many examples, use cases, and illustrations, this book explains the concepts, features, benefits, potential, and limitations of NoSQL. Making Sense of NoSQL starts by comparing familiar database concepts to the new NoSQL patterns that augment or replace them. Then, you'll explore case studies on big data, search, reliability, and business

agility that apply these new patterns to today's business problems. You'll see how NoSQL systems can leverage the resources of modern cloud computing and multiple-CPU data centers. The final chapters show you how to choose the right NoSQL technologies for your own needs. Managers and developers will welcome this lucid overview of the potential and capabilities of NoSQL technologies. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside NoSQL data architecture patterns NoSQL for big data Search, high availability, and security Choosing an architecture About the Authors Dan McCreary and Ann Kelly lead an independent training and consultancy firm focused on NoSQL solutions and are cofounders of the NoSQL Now! Conference. Table of Contents PART 1 INTRODUCTION NoSQL: It's about making intelligent choices NoSQL concepts PART 2 DATABASE PATTERNS Foundational data architecture patterns NoSQL data architecture patterns Native XML databases PART 3 NOSQL SOLUTIONS Using NoSQL to manage big data Finding information with NoSQL search Building high-availability solutions with NoSQL Increasing agility with NoSQL PART 4 ADVANCED TOPICS NoSQL and functional programming Security: protecting data in your NoSQL systems Selecting the right NoSQL solution

The Manga Guide to Databases *No Starch Press*

Want to learn about databases without the tedium? With its unique combination of Japanese-style comics and serious educational content, The Manga Guide to Databases is just the book for you. Princess Ruruna is stressed out. With the

king and queen away, she has to manage the Kingdom of Kod's humongous fruit-selling empire. Overseas departments, scads of inventory, conflicting prices, and so many customers! It's all such a confusing mess. But a mysterious book and a helpful fairy promise to solve her organizational problems—with the practical magic of databases. In *The Manga Guide to Databases*, Tico the fairy teaches the Princess how to simplify her data management. We follow along as they design a relational database, understand the entity-relationship model, perform basic database operations, and delve into more advanced topics. Once the Princess is familiar with transactions and basic SQL statements, she can keep her data timely and accurate for the entire kingdom. Finally, Tico explains ways to make the database more efficient and secure, and they discuss methods for concurrency and replication. Examples and exercises (with answer keys) help you learn, and an appendix of frequently used SQL statements gives the tools you need to create and maintain full-featured databases. (Of course, it wouldn't be a royal kingdom without some drama, so read on to find out who gets the girl—the arrogant prince or the humble servant.) This EduManga book is a translation of a bestselling series in Japan, co-published with Ohmsha, Ltd., of Tokyo, Japan.

ASP.NET Developer's JumpStart
Addison-Wesley Professional

The purpose of ASP.NET JumpStart is to show readers the practical applications of .NET and ASP.NET by illustrating how to build Web-based applications using Web Forms and Web Services. Emphasis will be on good programming standards and practices. The reader will be taken

from an introduction of the VB .NET language to intermediate topics through a step-by-step approach, which gives the reader the opportunity to try out the practices presented in each chapter.

FileMaker Pro 14: The Missing Manual "O'Reilly Media, Inc."

You don't need a technical background to build powerful databases with FileMaker Pro 14. This crystal-clear, objective guide shows you how to create a database that lets you do almost anything with your data so you can quickly achieve your goals. Whether you're creating catalogs, managing inventory and billing, or planning a wedding, you'll learn how to customize your database to run on a PC, Mac, web browser, or iOS device. The important stuff you need to know: Dive into relational data. Solve problems quickly by connecting and combining data from different tables. Create professional documents. Publish reports, charts, invoices, catalogs, and other documents with ease. Access data anywhere. Use FileMaker Go on your iPad or iPhone—or share data on the Web. Harness processing power. Use new calculation and scripting tools to crunch numbers, search text, and automate tasks. Run your database on a secure server. Learn the high-level features of FileMaker Pro Advanced. Keep your data safe. Set privileges and allow data sharing with FileMaker's streamlined security features.

40 Algorithms Every Programmer Should Know

Hone your problem-solving skills by learning different algorithms and their implementation in Python *Packt Publishing Ltd*

Algorithms play an important role in both the science and practice of computing. To optimally use algorithms, a deeper understanding of their logic and mathematics is essential. Beyond traditional computing, the ability to apply these algorithms to solve real-world problems is a necessary skill, and this is what this book focuses on.

Database Design for Mere Mortals

A Hands-On Guide to Relational Database Design *Addison-Wesley*

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 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.

Physical Database Design

The Database Professional's Guide to Exploiting Indexes, Views, Storage, and More *Morgan Kaufmann*

The rapidly increasing volume of information contained in relational databases places a strain on databases, performance, and maintainability: DBAs are under greater pressure than ever to optimize database structure for system performance and administration. *Physical Database Design* discusses the concept of how physical structures of databases affect performance, including specific examples, guidelines, and best and worst practices for a variety of DBMSs and configurations. Something as simple as improving the table index design has a profound impact on performance. Every form of relational database, such as Online Transaction Processing (OLTP), Enterprise Resource Management (ERP), Data Mining (DM), or Management Resource Planning (MRP), can be improved using the methods provided in the book. The first complete treatment on physical database design, written by the authors of the seminal, *Database Modeling and Design: Logical Design*, Fourth Edition Includes an introduction to the major concepts of

physical database design as well as detailed examples, using methodologies and tools most popular for relational databases today: Oracle, DB2 (IBM), and SQL Server (Microsoft) Focuses on physical database design for exploiting B+tree indexing, clustered indexes, multidimensional clustering (MDC), range partitioning, shared nothing partitioning, shared disk data placement, materialized views, bitmap indexes, automated design tools, and more!

Database Systems

The Complete Book *Pearson Higher Ed*

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Database Systems: The Complete Book is ideal for Database Systems and Database Design and Application courses offered at the junior, senior and graduate levels in Computer Science departments. A basic understanding of algebraic expressions and laws, logic, basic data structure, OOP concepts, and

programming environments is implied. Written by well-known computer scientists, this introduction to database systems offers a comprehensive approach, focusing on database design, database use, and implementation of database applications and database management systems. The first half of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers the latest database standards SQL:1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML, with broader coverage of SQL than most other texts. The second half of the book provides in-depth coverage of databases from the point of view of the DBMS implementor. It focuses on storage structures, query processing, and transaction management. The book covers the main techniques in these areas with broader coverage of query optimization than most other texts, along with advanced topics including multidimensional and bitmap indexes, distributed transactions, and information integration techniques.