

# Online Library Database Design And Development Simplified

## Database Design And Development Simplified

M.A. Bramer University of  
Portsmouth, UK This volume  
comprises the refereed technical  
papers presented at ES2000, the

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Twentieth SGENS International  
Conference on Knowledge Based  
Systems and Applied Artificial  
Intelligence, held in Cambridge in  
December 2000, together with an  
invited keynote paper by Professor  
Austin Tate. The conference was

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organised by SGES, the British  
Computer Society Specialist Group  
on Knowledge Based Systems and  
Applied Artificial Intelligence. The  
papers in this volume present new  
and innovative developments in the  
field, divided into sections on

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learning, case-based reasoning,  
knowledge representation,  
knowledge engineering, and belief  
acquisition and planning. The  
refereed papers begin with a paper  
entitled 'A Resource Limited  
Artificial Immune System for Data

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Analysis', which describes a machine learning algorithm inspired by the natural immune system. This paper was judged to be the best refereed technical paper submitted to the conference. The considerable growth in interest in machine learning in

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recent years is well reflected in the content of the next three sections, which comprise four papers on case-based reasoning and nine papers on other areas of machine learning. The remaining papers are devoted to knowledge engineering, knowledge

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representation, belief acquisition and planning, and include papers on such important emerging topics as knowledge reuse and representing the content of complex multimedia documents on the web. This is the seventeenth volume in the Research

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and Development series. The Application Stream papers are published as a companion volume under the title Applications and Innovations in Intelligent Systems VIII.

FCCS2012 is an integrated



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conference concentrating its focus on Future Computer and Control Systems. “Advances in Future Computer and Control Systems” presents the proceedings of the 2012 International Conference on Future Computer and Control

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Systems(FCCS2012) held April 21-22,2012, in Changsha, China including recent research results on Future Computer and Control Systems of researchers from all around the world.

Combines language tutorials with

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application design advice to cover the PHP server-side scripting language and the MySQL database engine.

A thorough update to the industry standard for designing, developing, and deploying data warehouse and

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business intelligence systems The world of data warehousing has changed remarkably since the first edition of The Data Warehouse Lifecycle Toolkit was published in 1998. In that time, the data warehouse industry has reached full

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maturity and acceptance, hardware and software have made staggering advances, and the techniques promoted in the premiere edition of this book have been adopted by nearly all data warehouse vendors and practitioners. In addition, the

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term "business intelligence" emerged to reflect the mission of the data warehouse: wrangling the data out of source systems, cleaning it, and delivering it to add value to the business. Ralph Kimball and his colleagues have refined the original

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set of Lifecycle methods and techniques based on their consulting and training experience. The authors understand first-hand that a data warehousing/business intelligence (DW/BI) system needs to change as fast as its surrounding organization

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evolves. To that end, they walk you through the detailed steps of designing, developing, and deploying a DW/BI system. You'll learn to create adaptable systems that deliver data and analyses to business users so they can make better business



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decisions.

This work has been revised and updated to provide a comprehensive treatment of database design for commercial database products and their applications. The book covers the basic foundation of design as

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well as more advanced techniques, and also incorporates coverage of data warehousing and OLAP (On-Line Analytical Processing), data mining, object-relational, multimedia, and temporal/spatial design.

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A Visual Approach

Beginning Database Design  
Solutions

A Step by Step Approach to  
Relational Database Design and  
Development

Oracle's Cooperative Development

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Environment

Concepts, Principles, and Practices

Readings in Artificial Intelligence  
and Databases

This book comprises the refereed  
papers together with the invited  
keynote papers, presented at the

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Second International Conference  
on Enterprise Information Systems.  
The conference was organised by  
the School of Computing at  
Staffordshire University, UK, and  
the Escola Superior de Tecnologia  
of Setubal, Portugal, in

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cooperation with the British Computer Society and the International Federation for Information Processing, Working Group 8.1. The purpose of this 2nd International Conference was to bring together researchers,

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engineers and practitioners interested in the advances in and business applications of information systems. The papers demonstrate the vitality and vibrancy of the field of Enterprise Information Systems. The research

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papers included here were selected from among 143 submissions from 32 countries in the following four areas: Enterprise Database Applications, Artificial Intelligence Applications and Decision Support Systems,



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Systems Analysis and Specification, and Internet and Electronic Commerce. Every paper had at least two reviewers drawn from 10 countries. The papers included in this book were recommended by the reviewers.

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On behalf of the conference organising committee we would like to thank all the members of the Programme Committee for their work in reviewing and selecting the papers that appear in this volume. We would also like to

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thank all the authors who have submitted their papers to this conference, and would like to apologise to the authors that we were unable to include and wish them success next year.

Relational Database Design and

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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

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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

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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

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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,

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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



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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

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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

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retrieving data using SQL

A comprehensive examination of all the programming tools in Oracle's new Cooperative Development Environment (CDE), this text explores the capabilities of the CDE and details the creation

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of powerful GUI-based, client server and centralized information systems. Readers will acquire the skills necessary to quickly and easily complete the most complex information management projects. Database Development and

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ManagementCRC Press

PHP Simple C.R.U.D adalah sebuah penulisan dan penerbitan yang dikhususkan untuk pembangunan aplikasi dan perisian projek tahun akhir pelajar Jabatan Teknologi Maklumat dan Komunikasi,

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Politeknik Kuching Sarawak. Ianya diilhamkan oleh kami sebagai satu langkah untuk membantu pelajar menyiapkan projek tahun akhir mereka dan sebagai rujukan untuk mempelajari bahasa pengaturcaraan PHP. Umumnya,

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pembinaan sistem di atas talian boleh dibuat menggunakan pelbagai jenis bahasa pengaturcaraan. Namun, bagi pelajar yang kurang berpengalaman dalam pembangunan aplikasi dan sistem,

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pengaturcaraan menggunakan PHP adalah antara yang bahasa pengaturcaraan yang mudah difahami kerana ianya sangat fleksible. Penulisan dan penerbitan E-BOOK ini adalah bagi memenuhi keperluan pembelajaran bahasa



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pengaturcaraan PHP tersebut yang telah dijumudkan dari silibus pembelajaran DDT. Buku ini bukanlah satu buku kerja kerana kandungan di dalam buku ini adalah berbentuk perkongsian idea dan membuka laluan

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pemikiran ke arah pembinaan laman web yang lebih efektif dan sempurna untuk projek akhir pelajar.

Database Design for Mere Mortals  
Correct Software in Web  
Applications and Web Services

# Online Library Database Design And Development Simplified

A Hands-on Guide to Relational  
Database Design

Oracle Database System Design  
Made Simple

Design, Development, and  
Integration of Reliable Electronic  
Healthcare Platforms

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Database Development For  
Dummies

*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*

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*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*

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*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*

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*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*

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*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*



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*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*

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*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.*

## Online Library Database Design And Development Simplified

*How exactly do you start to design a system with using Oracle Database technology? This book is the first in a series that answers just this question. If you are a Developer just starting, or even with several years of Oracle experience, this book will*

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*cut through the myriad of alternatives, to provide you with a practical and effective development approach. It explains the design basis of Oracle system development in a way that is not only relevant for Developers, but*

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*also extremely beneficial to System Designers, Architects, Development Managers and Project Managers. Simple explanations will guide you through the creation of a Foundation Layer that provides a solid basis for system delivery. This Layer will*

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*deliver significant gains in agility and development productivity, whilst slashing maintenance costs. The design features of Oracle Views, Materialized Views, Partitioning and Virtual Private Database are revealed, enabling you to deliver*

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*enhanced real system outcomes.  
The book is structured into two  
parts: A Theory Part describes the  
design considerations that underpin  
the best Oracle development  
approaches and allow you to create  
designs appropriate to your own*

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*requirements and constraints. A Practice Part provides Case Studies that take you step by step through how to construct such system Foundations. These worked examples can help you to fast track your own implementations.*



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*Advancements in technology have brought about a new era of medicinal practice; however, these new technological trends present both advantages and challenges to their utilization. Design, Development, and Integration of*

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*Reliable Electronic Healthcare  
Platforms is an authoritative  
reference work on the issues  
relating to the quality and safety of  
technology use in the medical  
realm. Featuring coverage on best  
practices, detailed analysis, and*

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*upcoming trends, this publication is essential for researchers, students and professionals seeking current research on the implementation of electronic technologies in healthcare.*

*Praise for the first edition: "This*

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*excellent text will be useful to every system engineer (SE) regardless of the domain. It covers ALL relevant SE material and does so in a very clear, methodical fashion. The breadth and depth of the author's presentation*

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*of SE principles and practices is outstanding.” –Philip Allen This textbook presents a comprehensive, step-by-step guide to System Engineering analysis, design, and development via an integrated set of concepts, principles, practices,*

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*and methodologies. The methods presented in this text apply to any type of human system -- small, medium, and large organizational systems and system development projects delivering engineered systems or services across multiple*

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*business sectors such as  
medical, transportation, financial,  
educational, governmental,  
aerospace and defense, utilities,  
political, and charity, among others.  
Provides a common focal point for  
“bridging the gap” between and*

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*unifying System Users, System Acquirers, multi-discipline System Engineering, and Project, Functional, and Executive Management education, knowledge, and decision-making for developing systems, products, or services Each*



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*chapter provides definitions of key terms, guiding principles, examples, author's notes, real-world examples, and exercises, which highlight and reinforce key SE&D concepts and practices*  
*Addresses concepts employed in Model-Based Systems*

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*Engineering (MBSE), Model-Driven Design (MDD), Unified Modeling Language (UML™) / Systems Modeling Language (SysML™), and Agile/Spiral/V-Model Development such as user needs, stories, and use cases analysis;*

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*specification development; system  
architecture development; User-  
Centric System Design (UCSD);  
interface definition & control;  
system integration & test; and  
Verification & Validation (V&V)  
Highlights/introduces a new 21st*

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*Century Systems Engineering & Development (SE&D) paradigm that is easy to understand and implement. Provides practices that are critical staging points for technical decision making such as Technical Strategy Development;*

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*Life Cycle requirements; Phases,  
Modes, & States; SE Process;  
Requirements Derivation; System  
Architecture Development, User-  
Centric System Design (UCSD);  
Engineering Standards, Coordinate  
Systems, and Conventions; et al.*

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*Thoroughly illustrated, with end-of-chapter exercises and numerous case studies and examples, Systems Engineering Analysis, Design, and Development, Second Edition is a primary textbook for multi-discipline, engineering, system*

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*analysis, and project management  
undergraduate/graduate level  
students and a valuable reference  
for professionals.*

*Learn effective and scalable  
database design techniques in a  
SQL Server environment. Pro SQL*

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*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*



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*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*

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*practices and relational theory  
Covers the latest implementation  
features in SQL Server Takes you  
from conceptual design to an  
effective, physical implementation  
The Database Professional's Guide  
to Exploiting Indexes, Views,*

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*Storage, and More*

*Evolutionary Database Design*

*(paperback)*

*Database Design, Application*

*Development, and Administration*

*Advances in Future Computer and*

*Control Systems*

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*Conceptual Data Modeling and  
Database Design: A Fully  
Algorithmic Approach, Volume 1  
Beginning Database Design*

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers.

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InfoWorld also celebrates people, companies, and projects.

Refactoring has proven its value in a wide range of development projects—helping software professionals improve system designs, maintainability, extensibility, and performance. Now, for the first

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time, leading agile methodologist Scott Ambler and renowned consultant Pramodkumar Sadalage introduce powerful refactoring techniques specifically designed for database systems. Ambler and Sadalage demonstrate how small changes to table structures, data,

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stored procedures, and triggers can significantly enhance virtually any database design—without changing semantics. You'll learn how to evolve database schemas in step with source code—and become far more effective in projects relying on iterative, agile methodologies. This

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comprehensive guide and reference helps you overcome the practical obstacles to refactoring real-world databases by covering every fundamental concept underlying database refactoring. Using start-to-finish examples, the authors walk you through refactoring simple



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standalone database applications as well as sophisticated multi-application scenarios. You'll master every task involved in refactoring database schemas, and discover best practices for deploying refactorings in even the most complex production environments. The second half of this

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book systematically covers five major categories of database refactorings. You'll learn how to use refactoring to enhance database structure, data quality, and referential integrity; and how to refactor both architectures and methods. This book provides an extensive set of examples built with

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Oracle and Java and easily adaptable for other languages, such as C#, C++, or VB.NET, and other databases, such as DB2, SQL Server, MySQL, and Sybase. Using this book's techniques and examples, you can reduce waste, rework, risk, and cost—and build database systems

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capable of evolving smoothly, far into the future.

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

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

"This book presents the latest research ideas and topics on databases and software

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development. It provides a representation of top notch research in all areas of database and information systems development"--Provided by publisher. The interaction of database and AI technologies is crucial to such applications as data mining, active

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databases, and knowledge-based expert systems. This volume collects the primary readings on the interactions, actual and potential, between these two fields. The editors have chosen articles to balance significant early research and the best and most comprehensive articles

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from the 1980s. An in-depth introduction discusses basic research motivations, giving a survey of the history, concepts, and terminology of the interaction. Major themes, approaches and results, open issues and future directions are all discussed, including the results of a



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major survey conducted by the editors of current work in industry and research labs. Thirteen sections follow, each with a short introduction. Topics examined include semantic data models with emphasis on conceptual modeling techniques for databases and information systems

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and the integration of data model concepts in high-level data languages, definition and maintenance of integrity constraints in databases and knowledge bases, natural language front ends, object-oriented database management systems, implementation issues such

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as concurrency control and error recovery, and representation of time and knowledge incompleteness from the viewpoints of databases, logic programming, and AI.

Designing Effective Database  
Systems

Database Development and

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Management

Volume 1

System Engineering Analysis, Design,  
and Development

An Essential Guide for IT  
Professionals

Enterprise Information Systems II

This edition WILL BE

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DISCONTINUED December 1  
2013. There is a Second Edition of  
this book out that contains a new  
chapter on implementation. This  
book is dedicated to structuring and  
simplifying the database design  
process, outlining a simple but

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reliable six-step process for accurately modelling user data, leading to a sturdy and reliable relational database. It starts with a statement of the problem by the client and goes through the six steps necessary to create a reliable

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and accurate data model of the client's business requirements. Three case studies are used throughout the book to guide the user through the six steps, illustrating the six-step relational database design technique. At each

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stage the technique is explained, in detail, using the case studies as examples of how to implement the process for that stage of the technique. This book should be used as a handbook for students and professionals in the software-



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development field. Students can use it as a technique for quickly developing relational databases for their applications, and professionals can use it as a technique for developing sturdy, reliable, and accurate relational

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database models for their software applications.

Today's database professionals must understand how to apply database systems to business processes and how to develop database systems for both business

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intelligence and Web-based applications. Database Development and Management explains all aspects of database design, access, implementation, application development, and management, as well

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The papers in this volume aim at obtaining a common understanding of the challenging research questions in web applications comprising web information systems, web services, and web interoperability; obtaining a

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common understanding of verification needs in web applications; achieving a common understanding of the available rigorous approaches to system development, and the cases in which they have succeeded;

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identifying how rigorous software engineering methods can be exploited to develop suitable web applications; and at developing a European-scale research agenda combining theory, methods and tools that would lead to suitable

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web applications with the potential to implement systems for computation in the public domain. For students in the introductory course in database who want to learn how to design rather than just manipulate relational

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databases. The book that balances database theory, business problem solving, and hands-on-practice. This book prepares student for the workplace without sacrificing rigorous academic theory. This textbook examines database



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systems from the viewpoint of a software developer. This perspective makes it possible to investigate why database systems are the way they are. It is of course important to be able to write queries, but it is equally important

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to know how they are processed. We e.g. don't want to just use JDBC; we also want to know why the API contains the classes and methods that it does. We need a sense of how hard is it to write a disk cache or logging facility. And

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what exactly is a database driver, anyway? The first two chapters provide a brief overview of database systems and their use. Chapter 1 discusses the purpose and features of a database system and introduces the Derby and

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SimpleDB systems. Chapter 2 explains how to write a database application using Java. It presents the basics of JDBC, which is the fundamental API for Java programs that interact with a database. In turn, Chapters 3-11

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examine the internals of a typical database engine. Each chapter covers a different database component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the JDBC client interface);

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further, the respective chapter explains the main issues concerning the component, and considers possible design decisions. As a result, the reader can see exactly what services each component provides and how it

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interacts with the other components in the system. By the end of this part, s/he will have witnessed the gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient query processing,

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and focus on the sophisticated techniques and algorithms that can replace the simple design choices described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is intended for upper-level



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undergraduate or beginning graduate courses in Computer Science. It assumes that the reader is comfortable with basic Java programming; advanced Java concepts (such as RMI and JDBC) are fully explained in the text. The

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respective chapters are complemented by “end-of-chapter readings” that discuss interesting ideas and research directions that went unmentioned in the text, and provide references to relevant web pages, research articles, reference

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manuals, and books. Conceptual and programming exercises are also included at the end of each chapter. Students can apply their conceptual knowledge by examining the SimpleDB (a simple but fully functional database

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system created by the author and provided online) code and modifying it.

PHP SIMPLE C.R.U.D DESIGN

Design and Development of Web  
Information Systems

Database Design and

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Implementation

A Practical Guide to Database  
Design

Designing Data-Intensive  
Applications

Refactoring Databases

Six-Step Relational Database

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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

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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

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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



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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

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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

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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

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applications, and by professionals for developing sturdy, reliable, and accurate relational database models for their software applications.

The first and only database primer for today's global economy

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Today's businesses depend on their databases to provide information essential for their day-to-day operations and to help them take advantage of today's rapidly growing and maturing electronic commerce opportunities. The

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primary responsibility for the design and maintenance of these databases rests with a company's information technology department. Unlike other IT resources currently available that tend to focus on a particular product, Database

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Design and Development: An Essential Guide for IT Professionals was created to give today's IT directors and other IT staff a solid basic knowledge of database design and development to help them make educated decisions

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about the right database environment for their companies. Today's IT professionals must understand the fundamentals in order to determine their next steps for specializing in the vast field of database technology. Database



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Design and Development: An  
Essential Guide for IT Professionals  
answers such common questions  
as: What is the purpose of a  
database system? What are the  
components of a database system?  
What type of data does your

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company need to capture? How do you design a database for a particular goal? How do you capture information through data modeling? How do you determine which database will best meet your business objectives? What's

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involved in effective database management and maintenance?  
How are database systems used to interface with the Internet? With more than twenty-five years of experience teaching IT courses and designing databases for some of

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America's top institutions, the author has succeeded in creating an essential resource for today's IT managers as well as for students planning a career in information technology.

The vast majority of software

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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

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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

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database to meet the application's requirements.

The rapidly increasing volume of information contained in relational databases places a strain on databases, performance, and maintainability: DBAs are under

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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,



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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

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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

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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

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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,

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clustered indexes, multidimensional clustering (MDC), range partitioning, shared nothing partitioning, shared disk data placement, materialized views, bitmap indexes, automated design tools, and more!

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This new book aims to provide both beginners and experts with a completely algorithmic approach to data analysis and conceptual modeling, database design, implementation, and tuning, starting from vague and incomplete

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customer requests and ending with IBM DB/2, Oracle, MySQL, MS SQL Server, or Access based software applications. A rich panoply of solutions to actual useful data sub-universes (e.g. business, university, public and home library,

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geography, history, etc.) is provided, constituting a powerful library of examples. Four data models are presented and used: the graphical Entity-Relationship, the mathematical EMDM, the physical Relational, and the logical



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deterministic deductive Datalog ones. For each one of them, best practice rules, algorithms, and the theory beneath are clearly separated. Four case studies, from a simple public library example, to a complex geographical study are

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fully presented, on all needed levels. Several dozens of real-life exercises are proposed, out of which at least one per chapter is completely solved. Both major historical and up-to-date references are provided for each of the four

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data models considered. The book provides a library of useful solutions to real-life problems and provides valuable knowledge on data analysis and modeling, database design, implementation, and fine tuning.

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A Reference and User's Guide

A Non-Theoretical Approach to  
Relational Database Design and  
Development

Physical Database Design

Advanced Principles for Improving  
Database Design, Systems

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Modeling, and Software  
Development

Second Edition

Database Design and Development

A quick and reliable way to build  
proven databases for core  
business functions Industry

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experts raved about The Data Model Resource Book when it was first published in March 1997 because it provided a simple, cost-effective way to design databases for core business functions. Len

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Silverston has now revised and updated the hugely successful 1st Edition, while adding a companion volume to take care of more specific requirements of different businesses. This updated volume provides a

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common set of data models for specific core functions shared by most businesses like human resources management, accounting, and project management. These models are standardized and are easily



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replicated by developers looking for ways to make corporate database development more efficient and cost effective. This guide is the perfect complement to The Data Model Resource CD-ROM, which is sold separately

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and provides the powerful design templates discussed in the book in a ready-to-use electronic format. A free demonstration CD-ROM is available with each copy of the print book to allow you to try before you buy the full CD-

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ROM.

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

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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

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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

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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

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provided in minimum 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,

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and anyone looking to gain a solid foundation to continue their learning of relational databases. This book describes the research of the authors over more than a decade on an end-to-end methodology for the design and



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development of Web Information Systems (WIS). It covers syntactics, semantics and pragmatics of WIS, introduces sophisticated concepts for conceptual modelling, provides integrated foundations for all

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these concepts and integrates them into the co-design method for systematic WIS development. WIS, i.e. data-intensive information systems that are realized in a way that arbitrary users can access them via web

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browsers, constitute a prominent class of information systems, for which acceptance by its a priori unknown users in varying contexts with respect to the presented content, the ease of functionality provided and the

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attraction of the layout adds novel challenges for modelling, design and development. This book is structured into four parts. Part I, Web Information Systems □ General Aspects, gives a general introduction to WIS

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describing the challenges for their development, and provides a characterization by six decisive aspects: intention, usage, content, functionality, context and presentation. Part II, High-Level WIS Design □ Strategic

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Analysis and Usage Modelling with Storyboarding, introduces methods for high-level design of WIS covering strategic aspects and the storyboarding method, which is discussed from syntactic, semantic and

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pragmatic perspectives. Part III,  
Conceptual WIS Design □  
Rigorous Modelling of Web  
Information Systems and their  
Layout with Web Interaction  
Types and Screenography,  
continues with conceptual design

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of WIS including layout and  
payout. This introduces the  
decisive web interaction types,  
the screenography method and  
adaptation aspects. The final  
Part IV, Rationale of the Co-  
Design Methodology and



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Systematic Development of Web Information Systems, describes the co-design method for WIS development and its application for the systematic engineering of systems. The book addresses the research community, and at

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the same time can be used for education of graduate students and as methodological support for professional WIS developers. For the WIS research community it provides methods for WIS modelling on all levels of

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abstraction including theoretical foundations and inference mechanisms as well as a sophisticated end-to-end methodology for systematic WIS engineering from requirements elicitation over conceptual

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modelling to aspects of implementation, layout and ployout. For students and professional developers the book can be used as a whole for educational courses on WIS design and development, as well

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as for more specific courses on conceptual modelling of WIS, WIS foundations and reasoning, co-design and WIS engineering or WIS layout and playout development.

This block is concerned with the

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database lifecycle, which describes the stages a database goes through, from the time the need for a database is established until it is withdrawn from use. This block applies the practice developed in Block 3 to

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systematically develop,  
implement and maintain a  
database design that supports  
the information requirements of  
an enterprise. It presents a  
simple framework for database  
development and

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maintenance. This is a very practical block and will require you to write and execute SQL statements for which you will need access to a computer installed with the course software (order code M359/CDR01) and



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database cards Scenarios and  
Hospital conceptual data model  
(order code M359/DBCARDS)  
"This book takes the somewhat  
daunting process of database  
design and breaks it into  
completely manageable and

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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,

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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

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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

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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

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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

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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

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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



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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

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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

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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

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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

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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

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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

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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

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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,



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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

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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

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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

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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

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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,

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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

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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

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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



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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

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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,

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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

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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

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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

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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

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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

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effective relational databases.

A Library of Universal Data

Models for All Enterprises

Six-Step Relational Database

Design

Web Database Applications with

PHP and MySQL



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The Big Ideas Behind Reliable,  
Scalable, and Maintainable  
Systems

The Data Model Resource Book,  
Volume 1

Contemporary Issues in  
Database Design and

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Information Systems  
Development

**From the #1 source for  
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**Application Development, and Administration" provides the information you need to learn relational databases. The book teaches students how to apply relational databases in solving basic and advanced database**

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**problems and cases. The  
fundamental database  
technologies of each  
processing environment are  
presented; as well as  
relating these technologies  
to the advances of e-  
commerce and enterprise**

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**computing. This book provides the foundation for the advanced study of individual database management systems, electronic commerce applications, and enterprise computing.**

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**A clear, easy to follow  
guide to the messy practice  
of building an effective  
database, using lots of real-  
world examples.**

**From ATMs to the personal  
finance, online shopping to  
networked information**

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**management, databases permeate every nook and cranny of our highly-connected, information-intensive world. Databases have become so integral to the business environment that, nowadays, it's next to**

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**impossible to stay competitive without the assistance of some sort of database technology—no matter what type or size of business you run. But developing your own database can be very tricky. In fact,**



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**whether you want to keep records for a small business or run a large e-commerce website, developing the right database system can be a major challenge. Which is where this friendly guide comes in. From data modeling**

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**methods and development  
tools to Internet  
accessibility and security,  
Database Development For  
Dummies shows you, step-by-  
step, everything you need to  
know about building a custom  
system from the ground up.**

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**You'll discover how to:  
Model data accurately Design  
a reliable functional  
database Deliver robust  
relational databases on time  
and on budget Build a user-  
friendly database  
application Put your**

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**database on the Web In plain English, author Allen Taylor acquaints you with the most popular data modeling methods, and he shows you how to systematically design and develop a system incorporating a database and**

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**one or more applications  
that operate on it.**

**Important topics he explores  
include: Understanding  
database architecture and  
how it has evolved  
Recognizing how database  
technology affects everyday**

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**life Using a structured  
approach to database  
development Creating an  
appropriate data model  
Developing a reliable  
relational design  
Understanding the  
complexities you're likely**

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**to encounter in designing a  
database and how to simplify  
them Implementing your  
design using Microsoft  
Access 2000, SQL Server and  
other powerful database  
development tools Keeping  
your database secure Putting**

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**your database on the  
Internet Today's powerful,  
low-cost database  
development tools make it  
possible for virtually  
anybody to create their own  
database. Get Database  
Development For Dummies and**



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**discover what it takes to  
design, develop and  
implement a sophisticated  
database system tailored to  
you and your company's  
current and future data  
storage and management  
needs.**

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**"This book presents cutting-edge research and analysis of the most recent advancements in the fields of database systems and software development" - - Provided by publisher.**

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## **Relational Database Design and Implementation**

**InfoWorld**

**Database Life Cycle**

**The Shortest Advisable Path**

**Design, Development, and**

**Deployment**

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Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming

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variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all

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these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data.

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Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in

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modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of



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different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes

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of major online services, and  
learn from their architectures

The Data Warehouse Lifecycle  
Toolkit

Research and Development in  
Intelligent Systems XVII

Pro SQL Server 2012 Relational

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Database Design and  
Implementation

Database Modeling and Design  
Proceedings of ES2000, the  
Twentieth SGES International  
Conference on Knowledge  
Based Systems and Applied

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Artificial Intelligence, Cambridge,  
December 2000

High-Performance Web  
Databases