Database Design And Development An Essential Guide For It Professionals

Logical Database Design Principles
Physical Database Design
Database Application Development and Design
Database Design Using Entity-Relationship Diagrams
Database Systems:A Practical Approach to Design, Implementation and Management with Corporate Computer and Network Security:(International Edition) and Making the Team (International Edition) with Success in Your Project
The Shortest Advisable Path
Database Design and Implementation
A Visual Approach
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Database Life Cycle
Beginning Database Design
Contemporary Issues in Database Design and Information Systems Development
Database Development and Management
Access Database Design & Programming
Six-Step Relational Database Design
A Step by Step Approach to Relational Database Design and Development
Evolutionary Database Design (paperback)
Refactoring Databases
Database Modeling and Design
An Essential Guide for IT Professionals
Introductory Relational Database Design for Business, with Microsoft Access
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Database Design: Know It All

Relational Database Design and Implementation
SQL Server Programming and Database Design for Developers
The Database Professional's Guide to Exploiting Indexes, Views, Storage, and More

MIYA DECKER

Logical Database Design Principles "O'Reilly Media, Inc."
Shows techniques for managing the complexity of database design using the ER model, a popular method for representing data requirements. Presents a complete set of semantic definitions and notations for ER models with computer screen illustrations of large, complex databases. Includes both logical and physical database design with an emphasis on the former. Annotation copyrighted by Book News, Inc., Portland, OR
Physical Database Design
CRC Press
Typically, analysis, development, and database teams work for different business units, and use different design notations. With UML and the Rational Unified Process (RUP), however, they can unify their efforts -- eliminating time-consuming, error-prone translations, and accelerating software to market. In this book, two data modeling specialists from Rational Software Corporation show exactly how to model data with UML and RUP, presenting proven processes and start-to-finish case studies. The book utilizes a running case study to bring together the entire process of data modeling with UML. Each chapter dissects a different stage of the data modeling process, from requirements through implementation. For each stage, the authors cover workflow and participants' roles, key concepts, proven approach, practical design techniques, and more. Along the way, the authors demonstrate how integrating data modeling into a unified software design process not only saves time and money, but gives all team members a far clearer understanding of the impact of potential changes. The book includes a detailed glossary, as well as appendices that present essential Use Case Models and descriptions. For all software team members: managers, team leaders, systems and data analysts, architects, developers, database designers, and others involved in building database applications for the enterprise.
Database Application Development and Design
CRC Press
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 Design Using Entity-Relationship Diagrams McGraw-Hill/Irwin

This textbook examines database 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 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 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 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 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); 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 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, 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 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 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 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 system created by the author and provided online) code and modifying it.
Database Systems:A Practical Approach to Design, Implementation and Management with Corporate Computer and Network Security:(International Edition) and Making the Team (International Edition) with Success in Your Project John Wiley & Sons
Relational database design and SQL (Structured Query Language) programming teach-by-practical-diagrams-&-examples book for developers, programmers, systems analysts and project managers who are new to relational database and client/server technologies. Also for database developers, database designers and database administrators (DBA), who know some SQL programming and database design, and who wish to refresh & expand their RDBMS design & development technology horizons. Familiarity with at least one computer programming language, Windows file system & Excel is assumed.
The Shortest Advisable Path John Wiley & Sons
This book brings all of the elements of database design together in a single volume, saving the reader the time and expense of making multiple purchases. It consolidates both introductory and advanced topics, thereby covering the gamut of database design methodology ? from ER and UML techniques, to conceptual data modeling and table transformation, to storing XML and querying moving objects databases. The proposed book expertly combines the finest database design material from the Morgan Kaufmann portfolio. Individual chapters are derived from a select group of MK books authored by the best and brightest in the field. These chapters are combined into one comprehensive volume in a way that allows it to be used as a reference work for those interested in new and developing aspects of database design. This book represents a quick and efficient way to unite valuable content from leading database design experts, thereby creating a definitive, one-stop-shopping opportunity for customers to receive the information they would otherwise need to round up from separate sources. Chapters contributed by various recognized experts in the field let the reader remain up to date and fully informed from multiple viewpoints. Details multiple relational models and modeling languages, enhancing the reader's technical expertise and familiarity with design-related requirements specification. Coverage of both theory and practice brings all of the elements of database design together in a single volume, saving the reader the time and expense of making multiple purchases.
Database Design and Implementation Morgan Kaufmann
This new book aims to provide to 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 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, 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 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 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 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.

A Visual Approach Fidel A Captain

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

Prentice Hall

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.

High-Performance Web Databases CRC Press

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

Second Edition CRC Press

From ATMs to the personal finance, online shopping to networkedinformation management, databases permeate every nook and cranny ofour highly-connected, information-intensive world. Databases havebecome so integral to the business environment that, nowadays,it’s next to impossible to stay competitive without theassistance of some sort of database technology—no matter whattype or size of business you run. But developing your own databasecan be very tricky. In fact, whether you want to keep records for asmall business or run a large e-commerce website, developing theright database system can be a major challenge. Which is where thisfriendly guide comes in. From data modeling methods and development tools to Internetaccessibility and security, Database Development For Dummiesshows you, step-by-step, everything you need to know about buildinga custom system from the ground up. You’ll discover howto: 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 database on the Web In plain English, author Allen Taylor acquaints you with themost popular data modeling methods, and

he shows you how tosystematically design and develop a system incorporating a databaseand one or more applications that operate on it. Important topicshe explores include: Understanding database architecture and how it has evolved Recognizing how database technology affects everyday life Using a structured approach to database development Creating an appropriate data model Developing a reliable relational design Understanding the complexities you're likely to encounterin designing a database and how to simplify them Implementing your design using Microsoft Access 2000, SQLServer and other powerful database development tools Keeping your database secure Putting your database on the Internet Today's powerful, low-cost database development tools makeit possible for virtually anybody to create their own database. GetDatabase Development For Dummies and discover what it takesto design, develop and implement a sophisticated database systemtailored to you and your company's current and future datastorage and management needs.

Database Life Cycle IGI Global
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.

Beginning Database Design Addison-Wesley Professional
Today's database professionals must understand how to apply database systems to business processes and how to develop database systems for both business intelligence and Web-based applications. Database Development and Management explains all aspects of database design, access, implementation, application development, and management, as well

Contemporary Issues in Database Design and Information Systems Development Morgan

Kaufmann
Mannino's "Database Design, 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 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 computing. This book provides the foundation for the advanced study of individual database management systems, electronic commerce applications, and enterprise computing.
Database Development and Management Springer Nature
Describes Agile Modeling Driven Design (AMDD) and Test-Driven Design (TDD) approaches, database refactoring, database encapsulation strategies, and tools that support evolutionary techniques Agile software developers often use object and relational database (RDB) technology together and as a result must overcome the impedance mismatch The author covers techniques for mapping objects to RDBs and for implementing concurrency control, referential integrity, shared business logic, security access control, reports, and XML An agile foundation describes fundamental skills that all agile software developers require, particularly Agile DBAs Includes object modeling, UML data modeling, data normalization, class normalization, and how to deal with legacy databases Scott W. Ambler is author of Agile Modeling (0471202827), a contributing editor with Software Development (www.sdmagazine.com), and a featured speaker at software conferences worldwide
Access Database Design & Programming Pearson Higher Ed
For students in the introductory course in database who want to learn how to design rather than just manipulate relational 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.

Six-Step Relational Database Design
Database Design and DevelopmentAn Essential Guide for IT Professionals This edition WILL BE 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 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 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 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-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 database models for their software applications.

A Step by Step Approach to Relational Database Design and Development
John Wiley & Sons
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 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 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. 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 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 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 of major online services, and learn from their architectures

Evolutionary Database Design (paperback)
Addison-Wesley Professional
Until now, almost all books on logical database design focused exclusively on relational design. However, modern database management systems have added powerful features that have driven a movement away from truly normalized database design. Logical Database Design Principles reflects these recent changes. The book begins by covering traditional lo

Refactoring Databases
Addison-Wesley Professional
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

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