Database

Scott W. Ambler,Pramod J. Sadalage

Database Internals Alex Petrov,2019-09-13 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

Database Reliability Engineering Laine Campbell,Charity Majors,2017-10-26 The infrastructure-as-code revolution in IT is also affecting database administration. With this practical book, developers, system administrators, and junior to mid-level DBAs will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations. Authors Laine Campbell and Charity Majors provide a framework for professionals looking to join the ranks of today's database reliability engineers (DBRE). You'll begin by exploring core operational concepts that DBREs need to master. Then you'll examine a wide range of database persistence options, including how to implement key technologies to provide resilient, scalable, and performant data storage and retrieval. With a firm foundation in database reliability engineering, you'll be ready to dive into the architecture and operations of any modern database. This book covers: Service-level requirements and risk management Building and evolving an architecture for operational visibility Infrastructure engineering and infrastructure management How to facilitate the release management process Data storage, indexing, and replication Identifying datastore characteristics and best use cases Datastore architectural components and data-driven architectures

Active Database Systems Jennifer Widom,Stefano Ceri,1995-09 Active database systems enhance traditional database functionality with powerful rule-processing capabilities, providing a uniform and efficient mechanism for many database system applications. Among these applications are integrity constraints, views, authorization, statistics gathering, monitoring and alerting, knowledge-based systems, expert systems, and workflow management. This significant collection focuses on the most prominent research projects in active database systems. The project leaders for each prototype system provide detailed discussions of their projects and the relevance of their results to the future of active database systems. Features: A broad overview of current active database systems and how they can be extended and improved A comprehensive introduction to the core topics of the field, including its motivation and history Coverage of active database (trigger) capabilities in commercial products Discussion of forthcoming standards

The Database Book Principles & Practice Narain Gehani,Melliyal Annamalai,2011

Refactoring Databases Scott W. Ambler,Pramod J. Sadalage,2006-03-03 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 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, 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 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 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 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 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 capable of evolving smoothly, far into the future.

Graph Databases Ian Robinson,Jim Webber,Emil Eifrem,2013-06-10 Discover how graph databases can help you manage and query highly connected data. With this practical book, you'll learn how to design and implement a graph database that brings the power of graphs to bear on a broad range of problem domains. Whether you want to speed up your response to user queries or build a database that can adapt as your business evolves, this book shows you how to apply the schema-free graph model to real-world problems. Learn how different organizations are using graph databases to outperform their competitors. With this book's data modeling, query, and code examples, you'll quickly be able to implement your own solution. Model data with the Cypher query language and property graph model Learn best practices and common pitfalls when modeling with graphs Plan and implement a graph database solution in test-driven fashion Explore real-world examples to learn how and why organizations use a graph database Understand common patterns and components of graph database architecture Use analytical techniques and algorithms to mine graph database information

Database Tuning Dennis Shasha,Philippe Bonnet,2002-06-07 Tuning your database for optimal performance means more than following a few short steps in a vendor-specific guide. For maximum improvement, you need a broad and deep knowledge of basic tuning principles, the ability to gather data in a systematic way, and the skill to make your system run faster. This is an art as well as a science, and Database Tuning: Principles, Experiments, and Troubleshooting Techniques will help you develop portable skills that will allow you to tune a wide variety of database systems on a multitude of hardware and operating systems. Further, these skills, combined with the scripts provided for validating results, are exactly what you need to evaluate competing database products and to choose the right one. Forward by Jim Gray, with invited chapters by Joe Celko and Alberto Lerner Includes industrial contributions by Bill McKenna (RedBrick/Informix), Hany Saleeb (Oracle), Tim Shetler (TimesTen), Judy Smith (Deutsche Bank), and Ron Yorita (IBM) Covers the entire system environment: hardware, operating system, transactions, indexes, queries, table design, and application analysis Contains experiments (scripts available on the author's site) to help you verify a system's effectiveness in your own environment Presents special topics, including data warehousing, Web support, main memory databases, specialized databases, and financial time series Describes performance-monitoring techniques that will help you recognize and troubleshoot problems

Foundations of Databases Serge Abiteboul,Richard Hull,Victor Vianu,1995 This product is a complete reference to both classical material and advanced topics that are otherwise scattered in sometimes hard-to-find papers. A major effort in writing the book was made to highlight the intuitions behind the theoretical development.

Principles of Distributed Database Systems M. Tamer Özsu,Patrick Valduriez,2011-02-24 This third edition of a classic textbook can be used to teach at the senior undergraduate and graduate levels. The material concentrates on fundamental theories as well as techniques and algorithms. The advent of the Internet and the World Wide Web,

and, more recently, the emergence of cloud computing and streaming data applications, has forced a renewal of interest in distributed and parallel data management, while, at the same time, requiring a rethinking of some of the traditional techniques. This book covers the breadth and depth of this re-emerging field. The coverage consists of two parts. The first part discusses the fundamental principles of distributed data management and includes distribution design, data integration, distributed query processing and optimization, distributed transaction management, and replication. The second part focuses on more advanced topics and includes discussion of parallel database systems, distributed object management, peer-to-peer data management, web data management, data stream systems, and cloud computing. New in this Edition: • New chapters, covering database replication, database integration, multidatabase query processing, peer-to-peer data management, and web data management. • Coverage of emerging topics such as data streams and cloud computing • Extensive revisions and updates based on years of class testing and feedback Ancillary teaching materials are available.

Stating the Obvious, and Other Database Writings C. J. Date, Some things seem so obvious that they don't need to be spelled out in detail. Or do they? In computing, at least (and probably in any discipline where accuracy and precision are important), it can be quite dangerous just to assume that some given concept is "obvious," and indeed universally understood. Serious mistakes can happen that way! The first part of this book discusses features of the database field—equality, assignment, naming—where just such an assumption seems to have been made, and it describes some of the unfortunate mistakes that have occurred as a consequence. It also explains how and why the features in question aren't quite as obvious as they might seem, and it offers some advice on how to work around the problems caused by assumptions to the contrary. Other parts of the book also deal with database issues where devoting some preliminary effort to spelling out exactly what the issues in question entailed could have led to much better interfaces and much more carefully designed languages. The issues discussed include redundancy and indeterminacy; persistence, encapsulation, and decapsulation; the ACID properties of transactions; and types vs. units of measure. Finally, the book also contains a detailed deconstruction of, and response to, various recent pronouncements from the database literature, all of them having to do with relational technology. Once again, the opinions expressed in those pronouncements might seem "obvious" to some people (to the writers at least, presumably), but the fact remains that they're misleading at best, and in most cases just flat out wrong.

Fundamental of Database Management System Dr. Mukesh Negi,2019-09-18 Designed to provide an insight into the database concepts DESCRIPTION Book teaches the essentials of DBMS to anyoneÊ who wants to become an effective and independent DBMS Master. It covers all the DBMS fundamentals without forgetting few vital advanced topics such as from installation, configuration and monitoring, up to the backup and migration of database covering few database client tools. KEY FEATURES Book contains real-time executed commands along with screenshot Parallel execution and explanation of Oracle and MySQL Database commands A Single comprehensive guide for Students, Teachers and Professionals Practical oriented book WHAT WILL YOU LEARN Relational Database,Keys Normalization of database SQL, SQL Queries, SQL joins Aggregate Functions,Oracle and Mysql tools WHO THIS BOOK IS FOR Students of Polytechnic Diploma Classes- Computer Science/ Information Technology Graduate Students- Computer Science/ CSE / IT/ Computer Applications Master Class StudentsÑMsc (CS/IT)/ MCA/ M.Phil, M.Tech, M.S. Industry Professionals- Preparing for Certifications Table of Contents _1. Ê Ê Fundamentals of data and Database management system 2. Ê Ê Database Architecture and Models 3. Ê Ê Relational Database and normalization 4. Ê Ê Open source technology & SQL 5. Ê Ê Database queries 6. Ê Ê SQL operators 7. Ê Ê Introduction to database joinsÊ 8. Ê Ê Aggregate functions, subqueries and users 9. Ê Ê Backup & Recovery 10. Ê Database installationÊ 11. Ê Oracle and MYSQL tools 12. Ê Exercise

Introduction to DBMS Dr. Hariram Chavan,Prof. Sana Shaikh,2022-05-10 Database and I: A unified view of the Database KEY FEATURES ● Explains database fundamentals by using examples from the actual world. ● Extensive hands-on practice demonstrating SQL topics using MySQL standards. ● All-inclusive coverage for systematic reading and self-study. DESCRIPTION The knowledge of Database Management Systems (DBMS) has become a de facto necessity for every business user. Understanding various databases and how it becomes an integral part of any application has been a popular curriculum for undergraduates. In this book, you will learn about database design and how to build one. It has six chapters meant to bridge the gap between theory and legit implementation. Concepts and architecture, Entity-relation model, Relational model, Structured Query Language, Relational database design, and transaction management are covered in the book. The ER and relational models are demonstrated using a database system from an engineering college and implemented using the MySQL standard. The final chapter explains transaction management, concurrency, and recovery methods. The final chapter explains transaction management, concurrency, and recovery methods. With a straightforward language and a student-centered approach, this book provides hands-on experience with MySQL implementation. It will be beneficial as a textbook for undergraduate students, and database specialists in their professional capacity may also use it. WHAT YOU WILL LEARN ● Acquire a firm grasp of the principles of data and database management systems. ● Outlines the whole development and implementation process for databases. ● Learn how to follow step-by-step normalization rules and keep your data clean. ● MySQL operations such as DDL, DML, DCL, TCL, and embedded queries are performed. ● Develop an understanding of how the transaction management and recovery system operates. WHO THIS BOOK IS FOR This book is ideal for anyone who is interested in learning more about Database Management Systems, whether they are undergraduate students, new database developers, or with some expertise. Programming foundations, file system ideas, and discrete structure concepts are recommended but not required. TABLE OF CONTENTS 1. Database System Concepts and Architecture 2. The Entity-Relationship Model 3. Relational Model and Relational Algebra 4. Structured Query Language and Indexing 5. Relational Database Design 6. Transactions Management and Concurrency and Recovery

Introduction to Database Management Systems on MTS. ,1986

Database Administration Craig Mullins,2002 Giving comprehensive, soup-to-nuts coverage of database administration, this guide is written from a platform-independent viewpoint, emphasizing best practices.

Practical Web Database Design Chris Auld,Allan Kent,Rudy Limeback,Nigel Stanger,Thearon Willis,2013-11-11 Although many web professionals will have incorporated a database into a web site before, they may not have much experience of designing them – this book will teach you all you need to know about designing a database for use with a web site or web application. From first principles to designing a successful web database, this book will show you how to get the most out of database design. From the Publisher Unlike other database design books in the market, this one focuses on design of databases for use on the Web. Web databases benefit from good general database design principles, but also have their own set of caveats, which must be considered for their design to be truly successful. This book covers both the general, and the web-specific database principles.

Database Design for Mere Mortals Michael J. Hernandez,2021-07-27 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.

Readings in Database Systems Joseph M. Hellerstein,Michael Stonebraker,2005 The latest edition of a popular text and reference on database research, with substantial new material and revision; covers classical literature and recent hot topics. Lessons from database research have been applied in academic fields ranging from bioinformatics to next-generation Internet architecture and in industrial uses including Web-based e-commerce and search engines. The core ideas in the field have become increasingly influential. This text provides both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field. The readings included treat the most important issues in the database area--the basic material for any DBMS professional. This fourth edition has been substantially updated and revised, with 21 of the 48 papers new to the edition, four of them published for the first time. Many of the sections have been newly organized, and each section includes a new or substantially revised introduction that discusses the context, motivation, and controversies in a particular area, placing it in the broader perspective of database research. Two introductory articles, never before published, provide an organized, current introduction to basic knowledge of the field; one discusses the history of data models and query languages and the other offers an architectural overview of a database system. The remaining articles range from the classical literature on database research to treatments of current hot topics, including a paper on search engine architecture and a paper on application servers, both written expressly for this edition. The result is a collection of papers that are seminal and also accessible to a reader who has a basic familiarity with database systems.

Logic and Databases C. J. Date,2007 Logic and databases are inextricably intertwined. The relational model in particular is essentially just elementary predicate logic, tailored to fit the needs of database management. Now, if you're a database professional, I'm sure this isn't news to you; but you still might not realize just how much everything we do in the database world is – or should be! – affected by predicate logic. Logic is everywhere. So if you're a database professional you really owe it to yourself to understand the basics of formal logic, and you really ought to be able to explain (and perhaps defend) the connections between formal logic and database management. And that's what this book is about. What it does is show, through a series of partly independent and partly interrelate essays, just how various crucial aspects of database technology-some of them very familiar, others maybe less so– are solidly grounded in formal logic. It is divided into five parts: *Basic Logic *Logic and Database Management *Logic and Database Design *Logic and Algebra *Logic and the Third Manifesto There's also a lengthy appendix, containing a collection of frequently asked questions (and some answers) on various aspects of logic and database management. Overall, my goal is to help you realize the importance of logic in everything you do, and also– I hope– to help you see that logic can be fun.

Databases for Small Business Anna Manning,2015-11-21 This book covers the practical aspects of database design, data cleansing, data analysis, and data protection, among others. The focus is on what you really need to know to create the right database for your small business and to leverage it most effectively to spur growth and revenue. Databases for Small Business is a practical handbook for entrepreneurs, managers, staff, and professionals in small organizations who are not IT specialists but who recognize the need to ramp up their small organizations' use of data and to round out their own business expertise and office skills with basic database proficiency. Anna Manning—a data scientist who has worked on database design and data analysis in a computer science university research lab, her own small business, and a nonprofit—walks you through the progression of steps that will enable you to extract actionable intelligence and maximum value from your business data in terms of marketing, sales, customer relations, decision making, and business strategy. Dr. Manning illustrates the steps in the book with four running case studies of a small online business, an engineering startup, a small legal firm, and a nonprofit organization. Databases for Small Business teaches non-techie entrepreneurs and professionals how to: Design a small business database from scratch Extract the maximum profit from your data Follow guidance on data protection law Effectively use data collection and data cleansing techniques Train staff to leverage your data

Relational Database Systems Joachim W. Schmidt,Michael L. Brodie,1983

Database Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled **"Database,"** written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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