

Beginning Mysql Database Design And Optimization From Novice To Professional 1st Edition

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Blog Design Solutions - Richard Rutter 2006-11-21

* No other blog book gives professional quality information on blog design and development like this one. Others are either "dummies" style books, or are aimed more at understanding the community/theory. * The Book supports 4 of the most popular blog engines, and shows you how to build your own. * It's written by a team of well respected community figures

PHP 5 Recipes - Frank M. Kromann 2006-11-05

* The only PHP "cook book" available that is completely up-to-date for PHP 5 which includes teaching material for PHP 5 object-oriented features * Complete code provided to solve all common problems PHP developers will come across in day-to-day work as well as using built in PHP functionality * Works well as a learn-by-example teaching book, as well as a quick solutions book

High Performance MySQL - Baron Schwartz 2012

How can you bring out MySQL's full power? With High Performance MySQL, you'll learn advanced techniques for everything from designing schemas, indexes, and queries to tuning your MySQL server, operating system, and hardware to their fullest potential. This guide also teaches you safe and practical ways to scale applications through replication, load balancing, high availability, and failover. Updated to reflect recent advances in MySQL and InnoDB performance, features, and tools, this third edition not only offers specific examples of how MySQL works, it also teaches you why this system works a.

Information Engineering and Applications - Rongbo Zhu 2011-11-13

In past twenty years or so, information technology has influenced and changed every aspect of our lives and our cultures. Without various IT-based applications, we would find it difficult to keep information stored securely, to process information and business efficiently, and to communicate information conveniently. In the future world, ITs and information engineering will play a very important role in convergence of computing, communication, business and all other computational sciences and application and it also will influence the future world's various areas, including science, engineering, industry, business, law, politics, culture and medicine. The International Conference on Information Engineering and Applications (IEA) 2011 is intended to foster the dissemination of state-of-the-art research in information and business areas, including their models, services, and novel applications associated with their utilization.

International Conference on Information Engineering and Applications (IEA) 2011 is organized by Chongqing Normal University, Chongqing University, Shanghai Jiao Tong University, Nanyang Technological University, University of Michigan and the Chongqing University of Arts and Sciences, and is sponsored by National Natural Science

Foundation of China (NSFC). The objective of IEA 2011 is to will provide a forum for engineers and scientists in academia, industry, and government to address the most innovative research and development . Information Engineering and Applications provides a summary of this conference including contributions for key speakers on subjects such as technical challenges, social and economic issues, and ideas, results and current work on all aspects of advanced information and business intelligence.

Database Management Systems - Sotirios Zygiaris 2018-08-23

Zygiaris provides an accessible walkthrough of all technological advances of databases in the business environment. Readers learn how to design, develop, and use databases to provide business analytical reports with the three major database management systems: Microsoft Access, Oracle Express and MariaDB (formerly MySQL).

Beginning MySQL Database Design and Optimization - Chad Russell 2004-10-18

* Shows how to take advantage of MySQL's built-in functions, minimizing the need to process data once it's been retrieved from the database. * Demonstrates how to write and use advanced and complex queries to cut down on (middleware) application logic, including nested sub-queries and virtual tables (added since MySQL 4.1). * Points out database design do's and don'ts, including many real-world examples of bad database designs and how the databases were subsequently improved. * Includes a review of MySQL fundamentals and essential theory, such as naming conventions and connections, for quick reference purposes.

Beginning JavaScript with DOM Scripting and Ajax - Christian Heilmann 2006-11-24

This is the most up-to-date book on JavaScript available, covering current standards, techniques, and practices. It provides all you need to know to hit the ground running, without making you trawl through hundreds of pages of syntax. The book contains multiple chapters on Ajax and DOM Scripting, which are two of the hottest web development and design tools available today. Using a pragmatic and thorough approach, the book ensures that even the most novice JavaScript programmers will become familiar and comfortable using the tools presented.

Conceptual Data Modeling and Database Design: A Fully Algorithmic Approach, Volume 1 - Christian Mancas 2016-01-05

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 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.

Introductory Relational Database Design for Business, with Microsoft Access - Jonathan Eckstein 2018-01-16

A hands-on beginner's guide to designing relational databases and managing data using Microsoft Access Relational databases represent one of the most enduring and pervasive forms of information technology. Yet most texts covering relational database design assume an extensive, sophisticated computer science background. There are texts on relational database software tools like Microsoft Access that assume less background, but they focus primarily on details of the user interface, with inadequate coverage of the underlying design issues of how to structure databases. Growing out of Professor Jonathan Eckstein's twenty years' experience teaching courses on management information systems (MIS) at Rutgers Business School, this book fills this gap in the literature by providing a rigorous introduction to relational databases for readers without prior computer science or programming experience. Relational Database Design for Business, with Microsoft Access helps readers to quickly develop a thorough, practical understanding of relational database design. It takes a step-by-step, real-world approach, using application examples from business and finance every step the way. As a result, readers learn to think concretely about database design and how to address issues that commonly arise when developing and manipulating relational databases. By the time they finish the final chapter, students will have the knowledge and skills needed to build relational databases with dozens of tables. They will also be able to build complete Microsoft Access applications around such databases. This text: Takes a hands-on approach using numerous real-world examples drawn from the worlds of business, finance, and more Gets readers up and running, fast, with the skills they need to use and develop relational databases with Microsoft Access Moves swiftly from conceptual fundamentals to advanced design techniques Leads readers step-by-step through data management and design, relational database theory, multiple tables and the possible relationships between them, Microsoft Access features such as forms and navigation, formulating queries in SQL, and normalization Introductory Relational Database Design for Business, with Microsoft Access is the definitive guide for undergraduate and graduate students in business, finance, and data analysis without prior experience in database design. While Microsoft Access is its primary "hands-on" learning vehicle, most of the skills in this text are transferrable to other relational database software such as MySQL.

DOM Scripting - Jeremy Keith 2006-11-07

* Most JavaScript books are very long-winded, boring, and developer-oriented – this one provides a quick and easy reference for those who are not code experts, but want to quickly learn and take advantage of

JavaScript/DOM to add cool functionality to their web sites. * Shows readers how to build several real world projects. * All examples are fiercely standards compliant and up-to-date.

Efficient MySQL Performance - Daniel Nichter 2021-11-30

You'll find several books on basic or advanced MySQL performance, but nothing in between. That's because explaining MySQL performance without addressing its complexity is difficult. This practical book bridges the gap by teaching software engineers mid-level MySQL knowledge beyond the fundamentals, but well shy of deep-level internals required by database administrators (DBAs). Daniel Nichter shows you how to apply the best practices and techniques that directly affect MySQL performance. You'll learn how to improve performance by analyzing query execution, indexing for common SQL clauses and table joins, optimizing data access, and understanding the most important MySQL metrics. You'll also discover how replication, transactions, row locking, and the cloud influence MySQL performance. Understand why query response time is the North Star of MySQL performance Learn query metrics in detail, including aggregation, reporting, and analysis See how to index effectively for common SQL clauses and table joins Explore the most important server metrics and what they reveal about performance Dive into transactions and row locking to gain deep, actionable insight Achieve remarkable MySQL performance at any scale

Database Systems - S. K. Singh 2011

The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application. It progresses gradually from basic to advance concepts in database management systems, with numerous solved exercises to make learning easier and interesting. New to this edition are discussions on more commercial database management systems.

High Performance MySQL - Baron Schwartz 2008-06-18

High Performance MySQL is the definitive guide to building fast, reliable systems with MySQL. Written by noted experts with years of real-world experience building very large systems, this book covers every aspect of MySQL performance in detail, and focuses on robustness, security, and data integrity. High Performance MySQL teaches you advanced techniques in depth so you can bring out MySQL's full power. Learn how to design schemas, indexes, queries and advanced MySQL features for maximum performance, and get detailed guidance for tuning your MySQL server, operating system, and hardware to their fullest potential. You'll also learn practical, safe, high-performance ways to scale your applications with replication, load balancing, high availability, and failover. This second edition is completely revised and greatly expanded, with deeper coverage in all areas. Major additions include: Emphasis throughout on both performance and reliability Thorough coverage of storage engines, including in-depth tuning and optimizations for the InnoDB storage engine Effects of new features in MySQL 5.0 and 5.1, including stored procedures, partitioned databases, triggers, and views A detailed discussion on how to build very large, highly scalable systems with MySQL New options for backups and replication Optimization of advanced querying features, such as full-text searches Four new appendices The book also includes chapters on benchmarking, profiling, backups, security, and tools and techniques to help you measure, monitor, and manage your MySQL installations.

Building Bioinformatics Solutions - Conrad Bessant 2014-01-16

Bioinformatics encompasses a broad and ever-changing range of activities involved with the management and analysis of data from molecular biology experiments. Despite the diversity of activities and applications, the basic methodology and core tools needed to tackle bioinformatics problems is common to many projects. This unique book provides an invaluable introduction to three

of the main tools used in the development of bioinformatics software - Perl, R and MySQL - and explains how these can be used together to tackle the complex data-driven challenges that typify modern biology. These industry standard open source tools form the core of many bioinformatics projects, both in academia and industry. The methodologies introduced are platform independent, and all the examples that feature have been tested on Windows, Linux and Mac OS. Building Bioinformatics Solutions is suitable for graduate students and researchers in the life sciences who wish to automate analyses or create their own databases and web-based tools. No prior knowledge of software development is assumed. Having worked through the book, the reader should have the necessary core skills to develop computational solutions for their specific research programmes. The book will also help the reader overcome the inertia associated with penetrating this field, and provide them with the confidence and understanding required to go on to develop more advanced bioinformatics skills.

Pro SQL Server 2005 Database Design and Optimization - Kurt Windisch 2006-11-30

* An essential book for new and migration projects for SQL Server 2005: will ensure that that such projects have a well-designed database and secure, optimized data access strategies right from the start. * Describes all new SQL Server 2005 features related to physical database design and provides completely new chapters on designing for fast data access, and exploiting .NET code in the database for optimum distribution of application logic. * An excellent foundation for MCAD/MCSE/MCDBA Database Design and Implementation exam. * Deep experience and advice, along with many tips or tricks, from an MVP lead author with over ten years of experience with SQL Server.

High Performance MySQL - Baron Schwartz 2012-03-05
How can you bring out MySQL's full power? With High Performance MySQL, you'll learn advanced techniques for everything from designing schemas, indexes, and queries to tuning your MySQL server, operating system, and hardware to their fullest potential. This guide also teaches you safe and practical ways to scale applications through replication, load balancing, high availability, and failover. Updated to reflect recent advances in MySQL and InnoDB performance, features, and tools, this third edition not only offers specific examples of how MySQL works, it also teaches you why this system works as it does, with illustrative stories and case studies that demonstrate MySQL's principles in action. With this book, you'll learn how to think in MySQL. Learn the effects of new features in MySQL 5.5, including stored procedures, partitioned databases, triggers, and views Implement improvements in replication, high availability, and clustering Achieve high performance when running MySQL in the cloud Optimize advanced querying features, such as full-text searches Take advantage of modern multi-core CPUs and solid-state disks Explore backup and recovery strategies—including new tools for hot online backups

Beginning Ruby on Rails E-Commerce - Jarkko Laine 2007-04-30

Ruby on Rails offers developers the opportunity to create fully-featured web applications in double-quick time. Rails and e-commerce are a match made in heaven and Beginning Ruby on Rails E-Commerce is the first book to directly target this market. The book explains, via real-life scenarios, how to use Rails to create every aspect of an online store – from creating a product catalog, to building a reliable shopping cart system, all the way to features and functions like customer feedback forums. This combination of high sophistication and broad focus makes this an essential working reference – the book all developers are calling for.

Pro MySQL - Jay Pipes 2006-11-22

* One of the first books to cover MySQL 5 in depth * Foregos reiteration of the basics found in other books, and concentrates on MySQL's advanced applications in enterprise environments * Doubles as a reference for users interested in having a thorough guide to configuration directives, commands, and features at their disposal

Beginning Relational Data Modeling - Sharon Allen 2005-03-24

A guide to data modeling provides information on the process of capturing business information, formulating data models, and mapping models to a physical relational database design.

Learning SQL - Alan Beaulieu 2009-04-11

Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, Learning SQL, Second Edition, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

Design Patterns for Cloud Native Applications - Kasun Indrasiri 2021-05-17

With the immense cost savings and scalability the cloud provides, the rationale for building cloud native applications is no longer in question. The real issue is how. With this practical guide, developers will learn about the most commonly used design patterns for building cloud native applications using APIs, data, events, and streams in both greenfield and brownfield development. You'll learn how to incrementally design, develop, and deploy large and effective cloud native applications that you can manage and maintain at scale with minimal cost, time, and effort. Authors Kasun Indrasiri and Sriskandarajah Suhothayan highlight use cases that effectively demonstrate the challenges you might encounter at each step. Learn the fundamentals of cloud native applications Explore key cloud native communication, connectivity, and composition patterns Learn decentralized data management techniques Use event-driven architecture to build distributed and scalable cloud native applications Explore the most commonly used patterns for API management and consumption Examine some of the tools and technologies you'll need for building cloud native systems

The Definitive Guide to AdonisJs - Christopher Pitt 2018-03-14

Learn everything you need to master the AdonisJs framework, including topics such as interacting with a database, rendering templates, writing asynchronous code, and hosting sites with SSL. Along the way, you'll see how to build a commerce application, which lists products and allows shoppers to register and purchase those products. The site will feature a product catalog, a shopping cart, user registration and login, and profile management. The Definitive Guide to AdonisJs also covers how to create a front-end build chain, so that you can use a modern front-end framework, such as React. You'll discover how to connect your front end to the server, so that data and transactions can be shared

between the two. Finally, you'll see how to secure and deploy the application to a virtual private server, including how to apply for and install an SSL certificate and start accepting payments. After reading and using this book, you'll know all you need about AdonisJs. You'll have the tools to turn that side-project you've been thinking about into a real money-making product. It is written by a web expert and reviewed by the AdonisJs project lead. This is the complete start-to-finish guide you've been waiting for. What You'll Learn Set up Node.js and AdonisJs, so that you can start building your application Create and use views and template code Implement cooperative multitasking, in JavaScript Represent eventual values with AdonisJs promises Organize and isolate your code in controllers and decorate them with middleware, to do things like authentication Build queries, using the Lucid DSL, and package these database entities up into model classes Validate form data and respond with the appropriate error messages Respond to general framework errors with custom error pages Learn the deeper parts of sessions and cookies Update the state of the user interface with WebSockets Host AdonisJs applications in a modern hosting environment Who This Book Is For Readers should have a functional understanding of JavaScript.

Expert MySQL - Charles Bell 2007-04-01

MySQL remains one of the hottest open source database technologies. As the database has evolved into a product competitive with proprietary counterparts like Oracle and IBM DB2, MySQL has found favor with large scale corporate users who require high-powered features and performance. Expert MySQL is the first book to delve deep into the MySQL architecture, showing users how to make the most of the database through creation of custom storage handlers, optimization of MySQL's query execution, and use of the embedded server product. This book will interest users deploying MySQL in high-traffic environments and in situations requiring minimal resource allocation.

High Performance MySQL - Silvia Botros 2021-10-18

How can you realize MySQL's full power? With High Performance MySQL, you'll learn advanced techniques for everything from setting service-level objectives to designing schemas, indexes, and queries to tuning your server, operating system, and hardware to achieve your platform's full potential. This guide also teaches database administrators safe and practical ways to scale applications through replication, load balancing, high availability, and failover. Updated to reflect recent advances in cloud- and self-hosted MySQL, InnoDB performance, and new features and tools, this revised edition helps you design a relational data platform that will scale with your business. You'll learn best practices for database security along with hard-earned lessons in both performance and database stability. Dive into MySQL's architecture, including key facts about its storage engines Learn how server configuration works with your hardware and deployment choices Make query performance part of your software delivery process Examine enhancements to MySQL's replication and high availability Compare different MySQL offerings in managed cloud environments Explore MySQL's full stack optimization from application-side configuration to server tuning Turn traditional database management tasks into automated processes

MySQL Database Design and Tuning (SAMS). - Schneider 1900

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only guide with coverage of both the basics and advanced topics,

including reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance information will show you how to: Deploy the right MySQL product for your performance.

Data Analysis for Corporate Finance - Mariano F. Scandizzo CFA CQF 2021-12-07

Have you ever tried to learn to code or to use advanced visualization tools? If so, I am sure you know how daunting it is to learn by yourself. Generally, tools and books follow an encyclopedism approach, i.e., books attempt to teach every feature about a coding language or tool. This implies hundreds, if not thousands of pages simply to tackle a single topic, whether SQL, Python, MS Excel, MS PowerBI, you name it. The journey from zero to hero to become proficient using numerical and visualization tools to take your career to the next level becomes an ordeal that requires years and thousands of pages just to begin putting the pieces of the puzzle together. However, the reality is that you do not need to learn absolutely every available feature to use those tools and deliver a superior project. Rather than teaching you about the forest, I will discuss specific trees. Why? Because once you become familiar and confident nurturing a few trees, growing a forest becomes a simple process of planting new trees. This book provides the fundamental blocks so that you can learn about financial data science and take these tools and start using them tomorrow. The scope of the selected tools will empower you to see a considerable improvement in your financial modeling skills. The book is designed to provide corporate finance professionals the ability to start immediately using advance tools for concrete real-world tasks. Therefore, this book is all about functionalism. It is about providing you with tools that will put you to work and dramatically change the way you analyze data. Once you see the benefits, it will become natural to keep expanding your domain knowledge, leveraging today's endless available educational resources.

PHP and MySQL Web Development - Luke Welling 2008-10-01

PHP and MySQL Web Development, Fourth Edition The definitive guide to building database-drive Web applications with PHP and MySQL and MySQL are popular open-source technologies that are ideal for quickly developing database-driven Web applications. PHP is a powerful scripting language designed to enable developers to create highly featured Web applications quickly, and MySQL is a fast, reliable database that integrates well with PHP and is suited for dynamic Internet-based applications. PHP and MySQL Web Development shows how to use these tools together to produce effective, interactive Web applications. It clearly describes the basics of the PHP language, explains how to set up and work with a MySQL database, and then shows how to use PHP to interact with the database and the server. The fourth edition of PHP and MySQL Web Development has been thoroughly updated, revised, and expanded to cover developments in PHP 5 through version 5.3, such as namespaces and closures, as well as features introduced in MySQL 5.1. This is the eBook version of the title. To gain access to the contents on the CD bundled with the printed book, please register your product at informit.com/register

High Performance Drupal - Jeff Sheltren 2013-10-14

How can you help your Drupal website continue to perform at the highest level as it grows to meet demand? This comprehensive guide provides best practices, examples, and in-depth explanations for solving several performance and scalability issues. You'll learn how to apply coding and infrastructure techniques to Drupal internals, application performance, databases, web servers, and performance analysis. Covering Drupal versions 7 and 8, this book is the ideal reference for everything from site deployment to implementing specific

technologies such as Varnish, memcache, or Solr. If you have a basic understanding of Drupal and the Linux-Apache-MySQL-PHP (LAMP) stack, you're ready to get started. Establish a performance baseline and define goals for improvement Optimize your website's code and front-end performance Get best and worst practices for customizing Drupal core functionality Apply infrastructure design techniques to launch or expand a site Use tools to configure, monitor, and optimize MySQL performance Employ alternative storage and backend search options as your site grows Tune your web servers through httpd and PHP configuration Monitor services and perform load tests to catch problems before they become critical

Learning MySQL - Saied M.M. Tahaghoghi 2007-11-28
Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.

Sams Teach Yourself MySQL in 21 Days - Anthony Butcher 2002

This guide teaches readers how to design and implement their an open source database. Topics include designing and creating a database; normalizing data; adding tables, columns and indexes; importing and exporting data; administering, optimizing and troubleshooting My SQL; and locks and keys.

MySQL Reference Manual - Michael Widenius 2002

This comprehensive reference guide offers useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system.

Foundation PHP for Dreamweaver 8 - David Powers 2006-11-09

* The book supports the new version of Dreamweaver, a huge potential market! * This book is fairly unique within that market - a book purely focused on PHP web development with Dreamweaver that teaches professional techniques, and doesn't treat readers like idiots (it isn't aimed at the "dummies" audience.) * Dreamweaver has over 3 million users worldwide.

MySQL Database Design and Tuning - Robert D Schneider 2005-06-13

The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only guide with coverage of both the basics and advanced topics, including reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance information will show you how to: Deploy the right MySQL product for your performance needs. Set up a performance management and monitoring environment using tools from MySQL. Implement the right indexing strategy Apply good performance strategy when developing software to work with the MySQL database. Configure dozens of variable to correctly tune the MySQL engine. If you deal with the intricacies and challenges of advanced MySQL functionality on a daily basis, you will be able to build on your knowledge with author Robert Schneider's real-world experiences in MySQL Database Design and Tuning.

Beginning Database Design - Gavin Powell 2006

From the #1 source for computing information, trusted by more than six million readers worldwide.

MySQL Tutorial - Luke Welling 2003-11-24

A concise introduction to the fundamentals of working with MySQL. MySQL is an open-source relational database management system that is rapidly growing in popularity. Known for its speed, reliability, and ease of use, MySQL has proven itself to be particularly well suited both for beginners and for experienced developers to create sophisticated database-backed Web sites and applications. MySQL Tutorial is a clear, concise introduction to the fundamental concepts and techniques of working with MySQL. It teaches the beginning MySQL

user how to create and administer powerful databases that can be used at home, at work, and on the Web. Whether you are a novice to databases or a technical professional looking to find out more about how MySQL works, MySQL Tutorial efficiently guides you through the information you need in order to get started with MySQL and quickly become proficient.

Physical Database Design - Sam S. Lightstone 2010-07-26
The rapidly increasing volume of information contained in relational databases places a strain on databases, performance, and maintainability: DBAs are under greater pressure than ever to optimize database structure for system performance and administration. Physical Database Design discusses the concept of how physical structures of databases affect performance, including specific examples, guidelines, and best and worst practices for a variety of DBMSs and configurations. Something as simple as improving the table index design has a profound impact on performance. Every form of relational database, such as Online Transaction Processing (OLTP), Enterprise Resource Management (ERP), Data Mining (DM), or Management Resource Planning (MRP), can be improved using the methods provided in the book. The first complete treatment on physical database design, written by the authors of the seminal, Database Modeling and Design: Logical Design, Fourth Edition Includes an introduction to the major concepts of physical database design as well as detailed examples, using methodologies and tools most popular for relational databases today: Oracle, DB2 (IBM), and SQL Server (Microsoft) Focuses on physical database design for exploiting B+tree indexing, clustered indexes, multidimensional clustering (MDC), range partitioning, shared nothing partitioning, shared disk data placement, materialized views, bitmap indexes, automated design tools, and more!

Development of an illumination simulation software for the Moon's surface - René Schwarz 2016-12-27

The German Aerospace Center (DLR) is developing a new, holistic optical navigation system for all stages of spacecraft planetary approach and landing procedures. The central feature of this new navigation system is its landmark-based navigation. Commonly, craters are used as landmarks, as they exhibit very characteristic shapes and they are stable over the long term with respect to shape, structure and positioning. However, the flawless perception of these surface features by computers is a non-trivial task. A possibility of generating realistic surface images of celestial bodies with a significant number of craters and with well-known local illumination conditions is essential for the development of new navigation algorithms, as well as a technique for estimating the local illumination direction on these images. To date, no software exists to generate artificial renderings of realistically illuminated planetary surfaces while determining the local solar illumination direction. Having said this, a surface illumination simulation software for solid planetary surfaces with a significant number of craters has been developed within a master's thesis at the Merseburg University of Applied Sciences and the German Aerospace Center (DLR), whereas all work has been done in the context of the Moon. This software, the Moon Surface Illumination Simulation Framework (MSISF), is the first software known to produce realistic renderings of the entire Moon's surface from virtually every viewpoint, while simultaneously generating machine-readable information regarding the exactly known parameters for the environmental conditions, such as the local solar illumination angle for every pixel of a rendering showing a point on the Moon's surface. To produce its renderings, the MSISF maintains a global digital elevation model of the Moon, using the latest data sets from the ongoing NASA Lunar Reconnaissance Orbiter mission. The MSISF has also demonstrated its ability to not only produce single renderings, but also whole

series of renderings corresponding to a virtual flight trajectory or landing on the Moon. The MSISF can also be modified for the rendering of other celestial bodies. This book shows how these renderings will be produced and how they will be suitable for the development and testing of new optical navigation algorithms; it is based upon the examination version of the original master's thesis.

MySQL 8 Administrator's Guide - Chintan Mehta 2018-02-15
Step by step guide to monitor, manage, and secure your database engine
Key Features
Your companion to master all the administration-related tasks in MySQL 8
Ensure high performance and high availability of your MySQL solution using effective replication and backup techniques
A comprehensive guide to performing query optimization, security and a whole host of other administrative tasks in MySQL 8
Book Description
MySQL is one of the most popular and widely used relational databases in the world today. The recently released version 8.0 brings along some major advancements in the way your MySQL solution can be administered. This handbook will be your companion to understand the newly introduced features in MySQL and how you can leverage them to design a high-performance MySQL solution for your organization. This book starts with a brief introduction to the newly introduced features in MySQL 8, followed by quickly jumping onto the crucial administration topics that you will find useful in your day to day work. Topics such as migrating to MySQL 8, MySQL benchmarking, achieving high performance by implementing the indexing techniques, and optimizing your queries are covered in this book. You will also learn how to perform replication, scale your MySQL solution and implement effective security techniques. A special section on the common and not so common troubleshooting techniques for effective MySQL administration is also covered in this book. By the end of this highly practical book, you will have all the knowledge you need to tackle any problem you might encounter while administering your MySQL solution. What you will learn
Understanding different MySQL 8 data types based on type of contents and storage requirements
Best practices for optimal use of features in MySQL 8
Explore globalization configuration and caching techniques to improve performance
Create custom storage engine as per system requirements
Learn various ways of index implementation for flash memory storages
Configure and implement replication along with approaches to use replication as solution
Understand how to make your MySQL 8 solution highly available
Troubleshoot common issues and identify error codes while using MySQL 8
Who this book is for
This book is intended for MySQL

administrators who are looking for a handy guide covering all the MySQL administration-related tasks. If you are a DBA looking to get started with MySQL administration, this book will also help you. Knowledge of the basic database concepts is required to get started with this book.

The Essential Guide to Dreamweaver CS4 with CSS, Ajax, and PHP - David Powers 2009-02-18

Dreamweaver CS4 is a massive step forward in terms of integration with the rest of the CS4 suite (Flash, Fireworks, Photoshop, etc.), and also includes whole host of exciting features of its own. The Essential Guide to Dreamweaver CS4 with CSS, Ajax, and PHP concentrates on getting the most out of Dreamweaver CS4, rather than going into every menu item and toolbar icon. The emphasis is on developing websites compliant with the latest web standards, using CSS, JavaScript libraries (with particular emphasis on Spry, Adobe's implementation of Ajax), and PHP. The book covers all aspects of the new user interface, including workspace layouts, iconic panels, the related documents feature, Live View, Code Navigator, and Live Code. It also shows how to use the improved CSS editing features, and JavaScript code introspection. There is also coverage of other new features, such as version control through Subversion integration, and the improved support for Photoshop integration through the use of Smart Objects. Takes you through your development environment set up
Covers everything you need to create both standards compliant web sites, and dynamic web applications
Teaches real world techniques using a series of step by step tutorials

Practical REST on Rails 2 Projects - Ben Scofield 2008-04-28

Practical REST on Rails 2 Projects is a guide to joining the burgeoning world of open web applications. It argues that opening up your application can provide significant benefits and involves you in the entire process—from setting up your application, to creating clients for it, to handling success and all its attendant problems. This book is the essential resource for anyone who wants to make their web application a full participant in the new Internet. This book is intended for intermediate-to-advanced Rails developers—people who use Rails regularly for sites and applications more complicated than the prototypical roll-your-own blog. In particular, it's targeted at Rails developers who want to be good Web 2.0 citizens—sharing the functionality of their app with other sites to the betterment of everyone. Application projects include iPhone, Facebook, and REST for the enterprise.