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This practical, hands-on tutorial/reference/guide to MySQL is perfect for beginners, but it also works for experienced developers who are not getting the most from MySQL. As you would expect, this book shows how to code all of the essential SQL statements for creating and working with a MySQL database. But beyond that, this book also shows how to design a database, including how to use the graphical MySQL Workbench to create an EER model. It shows how to take advantage of relatively new MySQL features such as foreign keys, transactions, stored procedures, stored functions, triggers, and events. It even presents a starting set of skills for a database administrator (DBA), including how to secure and back up databases. And like all Murach books, it uses the distinctive "paired pages" format, which breaks the material into manageable skills to speed up both learning and reference. A great help for MySQL users at any level. - Kofler's book offers more up-to-date coverage than other books on the market - Provides in-depth coverage of topics normally overlooked, such as the File Scripting Objects, accessing external databases using the ADO library, automating data analysis with pivot tables, and automating diagrams. JSON - JavaScript Object Notation - has become the data interchange format for most developers. MySQL added a JSON data type plus NoSQL JSON Document Store so developers can work with both relational tables and schema-less JSON document collections in version 5.7. MySQL 8.0 has introduced many new JSON centric features. This

book is a practical guide on how to take advantage of JSON data with a MySQL database with numerous easy-to-follow examples, clear explanations, and coding examples. This book will become your reference guide on using JSON data with a MySQL database, the numerous functions used with JSON data, the functions that can convert non-JSON relational data into JSON, the MySQL Document Store, and converting JSON data temporarily into structured (SQL) data for processing with SQL commands. A new, updated and revised edition of the best-selling #1 book on any open source programming topic. PHP and MySQL are two of today's most popular, open-source tools for server-side programming. That means there's a continuing demand for web developers who know how to use PHP and MySQL at the professional level. And with this book, you can become one of them! In fact, in just the first 6 chapters, you will create a database-driven website that implements the MVC pattern, the way the best professionals do. Then, the rest of the book lets you build on that base to develop a full set of professional skills. From a review of the first edition: "Modern Data Science with R... is rich with examples and is guided by a strong narrative voice. What's more, it presents an organizing framework that makes a convincing argument that data science is a course distinct from applied statistics" (The American Statistician). Modern Data Science with R is a comprehensive data science textbook for undergraduates that incorporates statistical and computational thinking to solve real-world data problems. Rather than focus exclusively on case studies or programming syntax, this book illustrates how statistical programming in the state-of-the-art R/RStudio computing environment can be leveraged to extract meaningful information from a variety of data in the service of addressing compelling questions. The second edition is updated to reflect the growing influence of the tidyverse set of packages. All code in the book has been revised and styled to be more readable and easier to understand. New functionality from packages like sf, purrr, tidymodels, and tidytext is now integrated into the text. All chapters have been revised, and several have been split, re-organized, or re-imagined to meet the shifting landscape of best practice. A short guide for everyone on how to structure your data and set-up your MySQL database tables efficiently and easily. Covering version 4.0, offers information about the database management software's statements, functions, tools, and syntax. More businesses and ambitious individuals are trying to bring applications to the Web but they are bewildered with the array of components and concepts needed to create a data-driven site. The cost, stability and ease of development using the Open Source PHP 4 scripting language and a MySQL database makes this combination the best choice for small and mid-size Web-based applications. PHP4/MySQL Database Applications demonstrates web-application development by presenting seven real, ready-to-use examples starting with a simple guess book and ending with a fully-

functional e-commerce site with a shopping cart. Inexperienced users will learn the essentials of working with PHP4 and MySQL so they can start building and customizing database applications for the web right away! Learn how to build interactive, data-driven websites—even if you don't have any previous programming experience. If you know how to build static sites with HTML, this popular guide will help you tackle dynamic web programming. You'll get a thorough grounding in today's core open source technologies: PHP, MySQL, JavaScript, and CSS. Explore each technology separately, learn how to combine them, and pick up valuable web programming concepts along the way, including objects, XHTML, cookies, and session management. This book provides review questions in each chapter to help you apply what you've learned. Learn PHP essentials and the basics of object-oriented programming Master MySQL, from database structure to complex queries Create web pages with PHP and MySQL by integrating forms and other HTML features Learn JavaScript fundamentals, from functions and event handling to accessing the Document Object Model Pick up CSS basics for formatting and styling your web pages Turn your website into a highly dynamic environment with Ajax calls Upload and manipulate files and images, validate user input, and secure your applications Explore a working example that brings all of the ingredients together What is this book about? PHP, Apache, and MySQL are the three key open source technologies that form the basis for most active Web servers. This book takes you step-by-step through understanding each — using it and combining it with the other two on both Linux and Windows servers. This book guides you through creating your own sites using the open source AMP model. You discover how to install PHP, Apache, and MySQL. Then you create PHP Web pages, including database management and security. Finally, you discover how to integrate your work with e-commerce and other technologies. By building different types of Web sites, you progress from setting up simple database tables to tapping the full potential of PHP, Apache, and MySQL. When you're finished, you will be able to create well-designed, dynamic Web sites using open source tools. What does this book cover? Here's what you will learn from this book: How PHP server-side scripting language works for connecting HTML-based Web pages to a backend database Syntax, functions, and commands for PHP, Apache, and MySQL Methods and techniques for building user-friendly forms How to easily store, update, and access information using MySQL Ways to allow the user to edit a database E-commerce applications using these three technologies How to set up user logins, profiles, and personalizations Proper protocols for error handling Who is this book for? This book is for beginners who are new to PHP and who need to learn quickly how to create Web sites using open source tools. Some basic HTML knowledge is helpful but not essential. 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. MySQL is a popular and robust open source database product that supports key subsets of SQL on both Linux and Unix systems. MySQL is free for nonprofit use and costs a small amount for commercial use. Unlike commercial databases, MySQL is affordable and easy to use. This book includes introductions to SQL and to relational database theory. If you plan to use MySQL to build web sites or other Linux or Unix applications, this book teaches you to do that, and it will remain useful as a reference once you understand the basics. Ample tutorial material and examples are included throughout. This book has all you need to take full advantage of this powerful database management system. It takes you through the whole process from installation and configuration to programming interfaces and database administration. This second edition has a greatly enhanced administration chapter that includes information on administrative tools, server configuration, server startup and shutdown, log file management, database backup and restore, and database administration and repair. In addition, a new chapter on security describes data, server, and client-server security, while a chapter on extending MySQL provides an overview of MySQL internals and describes the use of MySQL user-defined functions. If you know C/C++, Java, Perl, PHP, or Python, you can write programs to interact with your MySQL database. In addition, you can embed queries and updates directly in an HTML file so that a web page becomes its own interface to the database. Managing and Using MySQL includes chapters on the programming language interfaces, and it also includes a complete

reference section with specific function calls for each language. Also included in the reference section are references to the SQL language, and details of the MySQL system variables, programs, and utilities. New to the second edition is a reference to the internal MySQL tables, which will be of particular interest to those who want to work extensively with MySQL security. In this comprehensive guide to creating e-commerce website using PHP and MySQL, renowned author Larry Ullman walks you through every step—designing the visual interface, creating the database, presenting content, generating an online catalog, managing the shopping cart, handling the order and the payment process, and fulfilling the order—always with security and best practices emphasized along the way. Even if you're an experienced web developer, you're guaranteed to learn something new. The book uses two complete e-commerce site examples, with various features and goals, to present the widest possible range of e-commerce scenarios. This fully updated and expanded second edition includes an additional and new payment processing example, and also reflects the latest changes in PayPal's options and methodologies. There are new chapters on marketing-related tools to improve the site and sales, on adding functionality via Ajax, and on implementing e-commerce functionality using OOP instead of procedural code. Effortless E-Commerce with PHP and MySQL, Second Edition teaches you how to: Think of the customer first, in order to maximize sales and customer satisfaction Create a safe server environment and database Use secure transactions and prevent common vulnerabilities Incorporate different payment gateways Design scalable sites that are easy to maintain Build administrative interfaces Extend both examples to match the needs of your own sites With this book, Web designers who usually turn out static Websites with HTML and CSS can make the leap to the next level of Web development--full-fledged, dynamic, database-driven Websites using PHP and SQL. Covers topics including installation, configuration, sorting, database design, transaction performance, security, Perl, PHP scripting, and Java. PHP and MySQL in easy steps will teach the user to write PHP server-side scripts and how to make MySQL database queries. It has an easy-to-follow style that will appeal to: anyone who wants to begin producing data-driven web pages.web developers wanting to add database interaction to their web sites.the programmer who quickly wants to add PHP and MySQL to their skills set.the hobbyist who wants to begin creating scripts for upload to their own ISP.the student, and to those seeking a career in computing, who need a fundamental understanding of server-side programming with PHP and MySQL. PHP & MySQL in easy steps demonstrates by example how to produce data-driven web pages using the powerful PHP scripting language and the popular free MySQL database server. The book examples provide clear syntax-highlighted code showing how to selectively insert and extract data from databases for presentation on your web

browser. PHP & MySQL in easy steps begins by explaining how to install a free web server, the PHP interpreter, and MySQL database server, to create an environment in which you can produce your very own data-driven server-side web pages. You will learn how to write PHP server-side scripts and how to make MySQL database queries. Examples illustrate how to store and retrieve Session Data, how to provide a Message Board, and how to create an E-Commerce Shopping Cart. This book assumes you have no previous experience of any programming or scripting language so is ideal for the newcomer to PHP and MySQL technologies. In this comprehensive guide to creating an e-commerce Web site using PHP and MySQL, renowned author Larry Ullman walks you through every step—designing the visual interface, creating the database, presenting content, generating an online catalog, managing the shopping cart, handling the order and the payment process, and fulfilling the order—always with security and best practices emphasized along the way. Even if you're an experienced Web developer, you're guaranteed to learn something new. The book uses two e-commerce site examples—one based on selling physical products that require shipping and delayed payment, and another that sells non-physical products to be purchased and delivered instantly—so you see the widest possible range of e-commerce scenarios. In 11 engaging, easy-to-follow chapters, Effortless E-Commerce with PHP and MySQL teaches you how to:

- Think of the customer first, in order to maximize sales
- Create a safe server environment and database
- Use secure transactions and prevent common vulnerabilities
- Incorporate different payment gateways
- Design scalable sites that are easy to maintain
- Build administrative interfaces
- Extend both examples to match the needs of your own sites

Larry Ullman is the president of Digital Media and Communications Insights, Inc., a firm specializing in information technology (www.dmcinsights.com). He is the author of several bestselling programming and Web development books, including PHP and MySQL for Dynamic Web Sites: Visual QuickPro Guide. Larry also writes articles on these subjects and teaches them in small and large group settings. Despite working with computers, programming languages, databases, and such since the early 1980s, Larry still claims he's not a computer geek (but he admits he can speak their language). If you're ready to create web pages more complex than those you can build with HTML and CSS alone, Head First PHP & MySQL is the ultimate learning guide to building dynamic, database-driven websites using PHP and MySQL. Packed with real-world examples, this book teaches you all the essentials of server-side programming, from the fundamentals of PHP and MySQL coding to advanced topics such as form validation, session IDs, cookies, database queries and joins, file I/O operations, content management, and more. This updated second edition includes additions such as PHP security vulnerabilities and how to address them, file I/O, unit testing, and an introduction to object-oriented PHP. All the

MySQL and PHP code has been updated to reflect latest versions. If you're ready to build a truly dynamic website, *Head First PHP & MySQL* is the ideal way to get going. 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. This book covers the basics of PHP and MySQL along with introductions to advanced topics including object-oriented programming and how to build Web sites that incorporate authentication and security. After you complete this course, you will be able to use PHP and MySQL to build professional quality, database-driven Web sites. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Even if you've never used MySQL before, this *Visual QuickStart Guide* will have you up and running with the world's most popular open source database application in no time. In this completely updated edition of our best-selling guide to MySQL, leading technology author Larry Ullman uses his trademark crystal-clear instructions and friendly prose to introduce you to everything that's new in MySQL. Filled with step-by-step, task-based instructions and loads of visual aids, this book explains how to interact with MySQL using SQL, the language common to all databases. The interface examples show how to use MySQL's own tools and how to use three popular programming languages (PHP, Perl, and Java). The book covers MySQL versions 3 and 4, as well as everything new in the eagerly anticipated version 5. Along the way, you'll find extensive coverage of MySQL installation, administration, database design, as well as its use with various programming languages, database programming techniques, utilities, advanced MySQL and SQL, and more!

- Takes an easy, visual approach to teaching MySQL, using pictures to guide you through the software and show you what to do.
- Works like a reference book—you look up what you need and then get straight to work.
- No long-winded passages—concise, straightforward commentary explains what you need to know.
- Affordably priced, because buying a computer book shouldn't be an investment in itself.
- Companion Web site at www.DMCInsights.com/mysql2 contains complete source code for examples in the book, online resources, extra scripts and tutorials, updates, a reader forum, and more.

PHP and MySQL Web Development, Fourth Edition The definitive guide to building database-driven 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

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. A guide to the SQL-based database applications covers installation, configuration, interfaces, and administration. This book covers the basics of PHP and MySQL along with introductions to advanced topics including object-oriented programming and how to build Web sites that incorporate authentication and security. After you complete this course, you will be able to use PHP and MySQL to build professional quality, database-driven Web sites. There are many reasons for serving up dynamic content from a web site: to offer an online shopping site, create customized information pages for users, or just manage a large volume of content through a database. Anyone with a modest knowledge of HTML and web site management can learn to create dynamic content through the PHP programming language and the MySQL database. This book gives you the background and tools to do the job safely and reliably.

Web Database Applications with PHP and MySQL, Second Edition thoroughly

reflects the needs of real-world applications. It goes into detail on such practical issues as validating input (do you know what a proper credit card number looks like?), logging in users, and using templates to give your dynamic web pages a standard look. But this book goes even further. It shows how JavaScript and PHP can be used in tandem to make a user's experience faster and more pleasant. It shows the correct way to handle errors in user input so that a site looks professional. It introduces the vast collection of powerful tools available in the PEAR repository and shows how to use some of the most popular tools. Even while it serves as an introduction to new programmers, the book does not omit critical tasks that web sites require. For instance, every site that allows updates must handle the possibility of multiple users accessing data at the same time. This book explains how to solve the problem in detail with locking. Through a sophisticated sample application--Hugh and Dave's Wine Store--all the important techniques of dynamic content are introduced. Good design is emphasized, such as dividing logic from presentation. The book introduces PHP 5 and MySQL 4.1 features, while providing techniques that can be used on older versions of the software that are still in widespread use. This new edition has been redesigned around the rich offerings of PEAR. Several of these, including the Template package and the database-independent query API, are fully integrated into examples and thoroughly described in the text. Topics include: Installation and configuration of Apache, MySQL, and PHP on Unix®, Windows®, and Mac OS® X systems Introductions to PHP, SQL, and MySQL administration Session management, including the use of a custom database for improved efficiency User input validation, security, and authentication The PEAR repository, plus details on the use of PEAR DB and Template classes Production of PDF reports The follow-up to the bestselling task-based guide to MySQL and PHP, at a price readers will appreciate. PHP and MySQL are quickly becoming the de facto standard for rapid development of dynamic, database-driven web sites. This book is perfect for newcomers to programming as well as hobbyists who are intimidated by harder-to-follow books. With concepts explained in plain English, the new edition starts with the basics of the PHP language, and explains how to work with MySQL, the popular open source database. You then learn how to put the two together to generate dynamic content. If you come from a web design or graphics design background and know your way around HTML, Learning PHP & MySQL is the book you've been looking for. The content includes: PHP basics such as strings and arrays, and pattern matching A detailed discussion of the variances in different PHP versions MySQL data fundamentals like tables and statements Information on SQL data access for language A new chapter on XHTML Error handling, security, HTTP authentication, and more Learning PHP & MySQL explains everything from fundamental concepts to the nuts and bolts of performing specific tasks. As part

of O'Reilly's bestselling Learning series, the book is an easy-to-use resource designed specifically for beginners. It's a launching pad for future learning, providing you with a solid foundation for more advanced development. This is the fully updated new edition of the popular work that shows readers how to create e-commerce websites using two of the world's most popular technologies: the PHP scripting language and MySQL database. In addition to guiding readers through the creation of a working website using sound enterprise development techniques, the authors take care to provide readers with a variety of alternative implementation solutions. The book has also been updated to reflect the latest development trends, showing readers how to upgrade their shopping cart using Ajax, integrate with Amazon's Web services, and encourage customer feedback through cutting-edge interactive features. If you can build websites with CSS and JavaScript, this book takes you to the next level—creating dynamic, database-driven websites with PHP and MySQL. Learn how to build a database, manage your content, and interact with users. With step-by-step tutorials, this completely revised edition gets you started with expanded coverage of the basics and takes you deeper into the world of server-side programming. The important stuff you need to know: Get up to speed quickly. Learn how to install PHP and MySQL, and get them running on both your computer and a remote server. Gain new techniques. Take advantage of the all-new chapter on integrating PHP with HTML web pages. Manage your content. Use the file system to access user data, including images and other binary files. Make it dynamic. Create pages that change with each new viewing. Build a good database. Use MySQL to store user information and other data. Keep your site working. Master the tools for fixing things that go wrong. Control operations. Create an administrative interface to oversee your site. DuBois organizes his cookbook's recipes into sections on the problem, the solution stated simply, and the solution implemented in code and discussed. The implementation and discussion sections are the most valuable, as they contain the command sequences, code listings, and design explanations that can be transferred to outside projects. 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. Introduces techniques for building applications that integrate large databases with web interfaces. Using a three-tier architecture, the book focuses

on the middle tier and the application logic that brings together the fundamentally different client and database tiers. The authors explain the principles behind searching, browsing, storing user data, validating user input, managing user transactions, and security.

Annotation copyrighted by Book News, Inc., Portland, OR. When you need to find the right SQL keyword or MySQL client command-line option right away, turn to this convenient reference, known for the same speed and flexibility as the system it covers so thoroughly. MySQL is packed with so many capabilities that the odds of remembering a particular function or statement at the right moment are pretty slim. With MySQL in a Nutshell, you get the details you need, day in and day out, in one concise and extremely well organized book. The new edition contains all the commands and programming information for version 5.1, including new features and language interfaces. It's ideal for anyone using MySQL, from novices who need to get up to speed to advanced users who want a handy reference. Like all O'Reilly Nutshell references, it's easy to use and highly authoritative, written by the editor of the MySQL Knowledge Base at MySQL AB, the creator and owner of MySQL. Inside, you'll find:

- A thorough reference to MySQL statements, functions, and administrative utilities
- Several tutorial chapters to help newcomers get started
- Programming language APIs for PHP, Perl, and C
- Brief tutorials at the beginning of each API chapter to help anyone, regardless of experience level, understand and master unfamiliar territory
- New chapters on replication, triggers, and stored procedures
- Plenty of new examples of how MySQL is used in practice
- Useful tips to help you get through the most difficult subjects

Whether you employ MySQL in a mission-critical, heavy-use environment or for applications that are more modest, this book puts a wealth of easy-to-find information at your fingertips, saving you hundreds of hours of trial and error and tedious online searching. If you're ready to take advantage of everything MySQL has to offer, MySQL in a Nutshell has precisely what it takes.

- * This best-selling title has comprehensive discussions about PHP 5, MySQL 5, and how these two popular open source technologies work together to create powerful websites.
- * Updated to reflect the new features found in MySQL's most significant release to date. Readers are introduced to advanced database features like triggers, stored procedures, and views. They learn how to integrate these new capabilities into their PHP-driven web applications. The book also discusses PHP's new MySQL extension, `mysqli`, which is required for MySQL versions 4.1 and higher.
- * Packed with hundreds of practical examples covering all aspects of web development, including forms management, templating, database integration, Web services, security, and session handling. Get a comprehensive overview on how to set up and design an effective database with MySQL. This thoroughly updated edition covers MySQL's latest version, including its most important aspects. Whether you're

deploying an environment, troubleshooting an issue, or engaging in disaster and recovery, this practical guide provides the insights and tools necessary to take full advantage of this powerful RDBMS. Authors Vinicius Grippa and Sergey Kuzmichev from Percona show developers and DBAs methods for minimizing costs and maximizing availability and performance. You'll learn how to perform basic and advanced querying, monitoring and troubleshooting, database management and security, backup and recovery, and tuning for improved efficiency. This edition includes new chapters on high availability, load balancing, and using MySQL in the cloud. Learning MySQL will help you: Deploy MySQL databases on bare metal, on virtual machines, and in the cloud Design database infrastructures Code highly efficient queries Monitor and troubleshoot MySQL databases Execute efficient backup and restore operations Optimize database costs in the cloud Understand database concepts, especially those pertaining to MySQL. Get a comprehensive overview on how to set up and design an effective database with MySQL. This thoroughly updated edition covers MySQL's latest version, including its most important aspects. Whether you're deploying an environment, troubleshooting an issue, or engaging in disaster recovery, this practical guide provides the insights and tools necessary to take full advantage of this powerful RDBMS. Authors Vinicius Grippa and Sergey Kuzmichev from Percona show developers and DBAs methods for minimizing costs and maximizing availability and performance. You'll learn how to perform basic and advanced querying, monitoring and troubleshooting, database management and security, backup and recovery, and tuning for improved efficiency. This edition includes new chapters on high availability, load balancing, and using MySQL in the cloud. Get started with MySQL and learn how to use it in production Deploy MySQL databases on bare metal, on virtual machines, and in the cloud Design database infrastructures Code highly efficient queries Monitor and troubleshoot MySQL databases Execute efficient backup and restore operations Optimize database costs in the cloud Understand database concepts, especially those pertaining to MySQL Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.