

Mysql Cookbook Solutions For Database Developers And Administrators

"With an easy, step-by-step approach, this guide shows beginners how to install, use, and maintain the world's most popular open source database: MySQL. You'll learn through real-world examples and many practical tips, including information on how to improve database performance. Database systems such as MySQL help data handling and efficient access in ways not offered by spreadsheets and other types of data stores. This book is also useful for web developers and programmers interested in adding MySQL to their skill sets. Topics include: Installation and basic administration ; Introduction to databases and SQL ; Functions, subqueries, and other query enhancement techniques ; Popular languages" --

With special focus on the next major release of MySQL, this resource provides a solid framework for anyone new to MySQL or transitioning from another database platform, as well as experience MySQL administrators. The high-profile author duo provides essential coverage of the fundamentals of MySQL database management—including its functions—as well as coverage of SQL queries, data and index types, stored procedure and functions, triggers and views, and transactions. They also present comprehensive coverage of such topics as MySQL server tuning, managing storage engines, caching, backup and recovery, managing users, index tuning, database and performance monitoring. Combines language tutorials with application design advice to cover the PHP server-side scripting language and the MySQL database engine.

In the second edition of MySQL Paul DuBois provides an updated, comprehensive guide to one of the most popular relational database systems. MySQL is the most popular open source database server in the world, with more than 2 million installations and customers including Yahoo!, MP3.com, Motorola, and NASA. MySQL 4.0, now generally considered the most mature and stable version, has many new features, including a new table definition file format, enhanced replication, and more functions for a full text search. Instead of giving readers merely an overview of MySQL 4.0, DuBois continues to include the most sought-after answers to the questions he hears most often from the community. P

Discovering and Improving a Great Database

Python Cookbook

Discover the full potential of MySQL and ensure high performance of your database

MySQL Admin Cookbook Lite

Definitive Guide to Excel VBA

Solutions For Database Developers and Administrators

There's more than one way to achieve high availability for MySQL and this Cookbook covers a range of techniques and tools in over 60 practical recipes. The only book of its kind, you'll be learning the natural, engaging way. Analyze and learn different high availability options, including clustering and replication solutions within MySQL.

Improve uptime of your MySQL databases with simple recipes showing powerful high availability techniques for MySQL Tune your MySQL database for optimal performance. The only complete, practical, book of MySQL high availability techniques and tools on the market Part of Packt's Cookbook series: Each recipe is a carefully organized sequence of instructions to complete the task as efficiently as possible In Detail High Availability is something that all web sites hope to achieve, especially those that are linked to big companies. MySQL, an open source relational database management system (RDBMS), can be made highly available to protect from corruption, hardware failure, software crashes, and user error. Running a MySQL setup is quite simple. Things start getting complex when you start thinking about the best way to provide redundancy. There are a large number of techniques available to add 'redundancy' and 'high availability' to MySQL, but most are both poorly understood and documented. This book will provide you with recipes showing how to design, implement, and manage a MySQL Cluster and achieve high availability using MySQL replication, block level replication, shared storage, and the open source Global File System (GFS). This book covers all the major techniques available for increasing availability of your MySQL databases. It demonstrates how to design, implement, troubleshoot and manage a highly available MySQL setup using any one of several techniques, which are shown in different recipes. It is based on MySQL Cluster 7.0, MySQL (for non clustered recipes) 5.0.77, and CentOS / RedHat Enterprise Linux 5.3. The book starts by introducing MySQL Cluster as a technology and explaining how to set up a simple cluster. It will help you to master the options available for backing up and restoring a file in the MySQL Cluster. By following the practical examples in this book, you will learn how to manage the MySQL Cluster. Further, we will discuss some troubleshooting aspects of the MySQL Cluster. We also have a look at achieving high availability for MySQL databases with the techniques of MySQL Replication, block I...

This cookbook presents solutions to problems in the form of recipes. Each recipe provides the reader with easy step-by-step descriptions of the actions necessary to accomplish a specific task. Example values and code samples are used throughout the recipes, which makes adaptation for individual needs easy. This book is for ambitious MySQL users as well as professional data center database administrators. Beginners as well as experienced administrators will benefit from this cookbook and get fresh ideas to improve their MySQL environments. Detailed background information will enable them to widen their MySQL horizon. It does not cover SQL basics, how to install MySQL servers, or how to design a relational database schema. Readers are expected to have a basic understanding of the SQL language and database concepts in general.

For MySQL, the price of popularity comes with a flood of questions from users on how to solve specific data-related issues. That's where this cookbook comes in. When you need quick solutions or techniques, this handy resource provides scores of short, focused pieces of code, hundreds of worked-out examples, and clear, concise explanations for programmers who don't have the time (or expertise) to resolve MySQL problems from scratch. In this updated fourth edition, authors Sveta Smirnova and Alkin Tezuysal provide more than 200 recipes that cover powerful features in both MySQL 5.7 and 8.0. Beginners as well as professional database and web developers will dive into topics such as MySQL Shell, MySQL replication, and working with JSON. You'll learn how to: Connect to a server, issue queries, and retrieve results Retrieve data from the MySQL Server Store, retrieve, and manipulate strings Work with dates and times Sort query results and generate summaries Assess the characteristics of a dataset Write stored functions and procedures Use stored routines, triggers, and scheduled events Perform basic MySQL administration tasks Understand MySQL monitoring fundamentals.

Two years since its initial release, Redis already has an impressive list of adopters, including Engine Yard, GitHub, Craigslist, and Digg. This open source data structure server is built for speed and flexibility, making it ideal for many applications. If you're using Redis, or considering it, this concise cookbook provides recipes for a variety of issues you're likely to face. Each recipe solves a specific problem, and provides an in-depth discussion of how the solution works. You'll discover that Redis, while simple in nature, offers extensive functionality for manipulating and storing data. Learn when it makes sense to use Redis Explore several methods for installing Redis Connect to Redis in a number of ways, ranging from the command line to popular languages such as Python and Ruby Solve a range of needs, from linked datasets to analytics Handle backups, sharding, datasets larger than available memory, and many other tasks

PHP and MySQL Web Development

MySQL Cookbook, 4th Edition

Building Bioinformatics Solutions

Redis Cookbook

MySQL High Availability

Learning SQL

Stuck with bugs, performance problems, crashes, data corruption, and puzzling output? If you're a database programmer or DBA, they're part of your life. The trick is knowing how to quickly recover from them. This unique, example-packed book shows you how to handle an array of vexing problems when working with MySQL. Written by a principal technical support engineer at Oracle, MySQL Troubleshooting provides the background, tools, and expert steps for solving problems from simple to complex—whether data you thought you inserted doesn't turn up in a query, or the entire database is corrupt because of a server failure. With this book in hand, you'll work with more confidence. Understand the source of a problem, even when the solution is simple Handle problems that occur when applications run in multiple threads Debug and fix problems caused by configuration options Discover how operating system tuning can affect your server Use troubleshooting techniques specific to replication issues Get a reference to additional troubleshooting techniques and tools, including third-party solutions Learn best practices for safe and effective troubleshooting—and for preventing problems

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. 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 for 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

If you need help building web applications with the Lift framework, this cookbook provides scores of concise, ready-to-use code solutions. You'll find recipes for everything from setting up a coding environment to creating REST web services and deploying your application to production. Built on top of the Scala JVM programming language, Lift takes a different—yet ultimately easier—approach to development than MVC frameworks such as Rails. Each recipe in this book includes a discussion of how and why each solution works, not only to help you complete the task at hand, but also to illustrate how Lift works. Set up an environment and run your first Lift application Generate HTML, using Lift's View First approach Submit forms and work with form elements Build REST web services with the framework's RestHelper trait Take advantage of Lift's support for asynchronous deployments Locking down S3 buckets Analyzing IAW roles Autoscaling a containerized service Summarizing news articles Standing up a virtual call center Creating a chatbot that can pull answers from a knowledge repository Automating security group rule monitoring, looking for rogue traffic flows 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

MySQL's popularity has brought a flood of questions about how to solve specific problems, and that's where this cookbook is essential. When you need quick solutions or techniques, this handy resource provides scores of short, focused pieces of code, hundreds of worked-out examples, and clear, concise explanations for programmers who don't have the time (or expertise) to solve MySQL problems from scratch. Ideal for beginners and professional database and web developers, this updated third edition covers powerful features in MySQL 5.6 (and some in 5.7). The book focuses on programming APIs in Python, PHP, Java, Perl, and Ruby. With more than 200+ recipes, you'll learn how to: Use the mysql client and write MySQL-based programs Create, populate, and select data from tables Store, retrieve, and manipulate strings Work with dates and times Sort query results and generate summaries Use stored routines, triggers, and scheduled events Import, export, validate, and reformat data Perform transactions and work with statistics Process web input, and generate web content from query results Use MySQL-based web session management Provide security and server administration

The implementation of stored procedures in MySQL 5.0 a huge milestone -- one that is expected to lead to widespread enterprise adoption of the already extremely popular MySQL database. If you are serious about building the web-based database applications of the future, you need to get up to speed quickly on how stored procedures work -- and how to build them the right way. This book, destined to be the bible of stored-procedure development, is a resource that no real MySQL programmer can afford to do without. In the decade since MySQL burst on the scene, it has become the dominant open source database, with capabilities and performance rivaling those of commercial RDBMS offerings like Oracle and SQL Server. Along with Linux and PHP, MySQL is at the heart of millions of applications. And now, with support for stored procedures, functions, and triggers in MySQL 5.0, MySQL offers the programming power needed for true enterprise use. MySQL's new procedural language has a straightforward syntax, making it easy to write simple programs. But it's not so easy to write secure, easily maintained, high-performance, and bug-free programs. Few in the MySQL world have substantial experience yet with stored procedures, but Guy Harrison and Steven Feuerstein have decades of combined expertise. In MySQL Stored Procedure Programming, they put that hard-won experience to good use. Packed with code examples and covering everything from language basics to application building to advanced tuning and best practices, this highly readable book is the one-stop guide to MySQL development. It consists of four major sections: MySQL stored programming fundamentals -- tutorial, basic statements, SQL in stored programs, and error handling Building MySQL stored programs -- transaction handling, built-in functions, stored functions, and triggers MySQL stored programs in applications -- using stored programs with PHP, Java, Perl, Python, and .NET (C# and VB.NET) Optimizing MySQL stored programs -- security, basic and advanced SQL tuning, optimizing stored program

Oracle PL/SQL Programming-- the classic reference for Oracle stored programming for more than ten years. Both have decades of experience as database developers, and between them they have authored a dozen books. Practical Techniques for Fast Data Manipulation Over 150 recipes for high-performance database querying and administration Node Cookbook Recipes from the Community for Building Web Applications with Scala Actionable solutions for the full spectrum of Node.js 8 development The Definitive Guide to Using, Programming, and Administering MySQL 4 Databases

- 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. - Offers a no-nonsense, pragmatic approach. This book contains everything you need to know to be the go-to person in your organization when it comes to MySQL - Starting with a quick installation and configuration of your MySQL instance, the book quickly jumps into the querying aspects of MySQL. It shows Operators will learn and understand what developers are excited about and start to adopt the tools that will change the way they work.-- 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 exercises. 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.

MySQL Troubleshooting

Learning MySQL and MariaDB

Building High-Performance Web Applications in MySQL

What To Do When Queries Don't Work

MySQL Cookbook, 3rd Edition

High Availability MySQL Cookbook

A guide to SQL covers such topics as retrieving records, metadata queries, working with strings, data arithmetic, date manipulation, reporting and warehousing, and hierarchical queries.

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.

Design and administer enterprise-grade MySQL 8 solutions Key Features Store, retrieve, and manipulate your data using the latest MySQL 8 features Practical recipes on effective administration in MySQL, with a focus on security, performance tuning, troubleshooting, and more Contains tips, tricks, and best practices for designing, developing, and administering your MySQL 8 database solution without any hassle Book Description MySQL Cookbook 2nd Edition is one of the most popular and widely used relational databases in the World today. The recently released MySQL 8 version promises to be better and more efficient than its predecessor. This book contains everything you need to know to be the go-to person in your organization when it comes to MySQL - Starting with a quick installation and configuration of your MySQL instance, the book quickly jumps into the querying aspects of MySQL. It shows you the newest improvements in MySQL 8 and gives you hands-on experience in managing high-transaction and real-time datasets. If you've already worked with MySQL before and are looking to migrate your application to MySQL 8, this book will also show you how to do that. The book also contains recipes on efficient MySQL administration, with tips on effective user management, data recovery, security, database monitoring, performance tuning, troubleshooting, and more. With quick solutions to common and not-so-common problems you might encounter while working with MySQL 8, the book contains practical tips and tricks to give you the edge over others in designing, developing, and administering your database effectively. What you will learn Install and configure your MySQL 8 instance without any hassle Get to grips with new features of MySQL 8 like CTE, Window functions and many more Perform backup tasks, recover data and set up various replication topologies for your database Maximize performance by using new features of MySQL 8 like descending indexes, controlling query optimizer and resource groups Learn how to use general table space to suit the SaaS or multi-tenant applications Analyze slow queries using performance schema, sys schema and third party tools Manage and monitor your MySQL instance and implement efficient performance-tuning tasks Who this book is for If you are a MySQL developer or administrator looking for quick, handy solutions to solve the most common and not-so-common problems in MySQL, this book is for you. MySQL DBAs looking to get up-to-speed with the latest MySQL 8 development and administration features will also find this book very useful. Prior knowledge of Linux and RDBMS is desirable.

MySQL for Python

Web Database Applications with PHP and MySQL

Master SQL Fundamentals

MySQL Stored Procedure Programming

Advanced MySQL 8

Docker Cookbook

Businesses, right from small-sized to large giants are using MySQL to access and manipulate their enterprise database across the world. Advanced MySQL 8 will be your one-stop destination in how to implement and manage large-scale MySQL distributed clusters to run high-volume websites, enterprise systems, and packaged software. The only Oracle Press guide to MySQL Workbench explains how to design and model MySQL databases. MySQL Workbench Data Modeling and Development helps developers learn how to effectively use this powerful product for database modeling, reverse engineering, and interaction with the database without writing SQL statements. MySQL Workbench is a graphical user interface that can be used to create and maintain MySQL databases without coding. The book covers the interface and explains how to accomplish each step by illustrating best practices visually. Clear examples, instructions, and explanations reveal, in a single volume, the art of database modeling. This Oracle Press guide shows you how to get the tool to do what you want. Annotated screen shots demonstrate all interactions with the tool, and text explains the how, what, and why of each step. Complete coverage Installation and Configuration; Creating and Managing Connections; Data Modeling Concepts; Creating an ERD; Defining the Physical Schemata; Creating and Managing Tables; Creating and Managing Relationships; Creating and Managing Views; Creating and Managing Routines; Creating and Managing Routine Groups; Editing Generated Scripts; Creating New Instances; Managing Import and Export; Managing Security; Managing Server Instances

Describes the features and functions of MySQL 5.0 along with short code pieces and programming examples. PostgreSQL has become the most advanced open source database on the market. This book adopts a step-by-step approach to meet almost every requirement you can think of while deploying PostgreSQL in production environments. You will not only learn how to design and manage your database but also discover how to administer and secure the database. Heading in the Right Direction with MySQL and MariaDB "Covers MySQL 4.0"--Cover. - "Solutions and Examples for MySQL Database Developers"--Cover

SQL Cookbook

MySQL

PHP Cookbook

Over 120 recipes to build high-performance and fault-tolerant PostgreSQL database solutions

Offers instructions for creating programs to do tasks including fetching URLs and generating bar charts using the open source scripting language, covering topics such as data types, regular expressions, encryption, and PEAR.

This is a practical, tutorial-style book that includes many examples to demonstrate the full potential of MySQL for Python. Every chapter starts with an explanation of the various areas for using MySQL for Python and ends with work on a sample application using the programming calls just learned. All complicated concepts are broken down to be very easy to understand. Everything in the book is designed to help you learn and use MySQL for Python to address your programming needs in the fastest way possible. This book is meant for intermediate users of Python who want hassle-free access to their MySQL database through Python. If you are a Python programmer who wants database-support in your Python applications, then this book is for you. This book is a must-read for every focused user of the MySQL for Python library who wants real-world applications using this powerful combination of Python and MySQL.

Over 60 high-quality recipes covering debugging, security, performance, microservices, web frameworks, databases, deployment and more; rewritten for Node 4, 6, and 8. About This Book Actionable recipes across the full spectrum of Node.js development Cutting edge techniques and tools for measuring and improving performance Best practices for creating readily-scalable production systems Who This Book Is For If you have good knowledge of JavaScript and want to build fast, efficient, scalable client-server solutions, then this book is for you. Some experience with Node.js is assumed to get the most out of this book. If working from a beginner level Node Cookbook 2nd Edition is recommended as a primer for Node Cookbook 3rd Edition. What You Will Learn Debug Node.js programs Write and publish your own Node.js modules Detailed coverage of Node.js core APIs Use web frameworks such as Express, Hapi and Koa for web application development Apply Node.js streams for low-footprint data processing Fast-track performance knowledge and optimization abilities Persistence strategies including database integrations with MongoDB, MySQL, MariaDB, Postgres, Redis, and LevelDB Apply critical, essential security concepts Use Node with best-of-breed deployment technologies: Docker, Kubernetes and AWS In Detail Today's web demands efficient real-time applications and scalability. Asynchronous event-driven programming is ideal for this, and this is where Node.js comes in. Server-side JavaScript has been here since the 90s, but Node got it right. With Node for tooling and server-side logic, and a browser-based client-side UI, everything is JavaScript. This leads to rapid, fluid development cycles. The full-stack, single language experience means less context-switching between languages for developers, architects and whole teams. This book shows you how to build fast, efficient, and scalable client-server solutions using the latest versions of Node. The book begins with debugging tips and tricks of the trade, and how to write your own modules. Then you'll learn the fundamentals of streams in Node.js, discover IO control, and how to implement the different web protocols. You'll find recipes for integrating databases such as MongoDB, MySQL/MariaDB, Postgres, Redis, and LevelDB. We also cover the options for building web application with Express, Hapi and Koa. You will then learn about security essentials in Node.js and advanced optimization tools and techniques. By the end of the book you will have acquired the level of expertise to build production-ready and scalable Node.js systems. The techniques and skills you will learn in this book are based on the best practices developed by nearForm, one of the leaders in Node implementations, who supported the work of the authors on this book. Style and approach This recipe-based practical guide presents each topic with step-by-step instructions on how you can create fast and efficient server side applications using the latest features and capabilities in Node 8 whilst also supporting usage with Node 4 and 6.

Server bottlenecks and failures are a fact of life in any database deployment, but they don't have to bring everything to a halt. MySQL has several features that can help you protect your system from outages, whether it's running on hardware, virtual machines, or in the cloud. MySQL High Availability explains how to use these replication, cluster, and monitoring features in a wide range of real-life situations. Written by engineers who designed many of the tools covered inside, this book reveals undocumented or hard-to-find aspects of MySQL reliability and high availability -- knowledge that's essential for any organization using this database system. Explore the binary log, a file for replication that helps in disaster recovery and troubleshooting Get techniques for improving response time and handling large data sets Monitor database activity and performance, as well as major operating system parameters Keep track of what masters and slaves are doing, and deal with failures and restarts, corruption, and other incidents Automate key tasks with code from an open source library written by the authors Learn techniques for using MySQL in virtualized environments, such as Amazon Web Services Use MySQL Cluster to achieve high availability "MySQL replication is widely deployed but has never been adequately explained. This book changes that."-- Mark Callaghan, MySQL contributor and leader of MySQL engineering efforts at a few of the world's largest Internet companies

Configuration, Server Monitoring, Managing Users

Murach's MySQL

MySQL Workbench: Data Modeling & Development

Lift Cookbook

Learning MySQL

Optimization, Backups, and Replication

This how-to guide to MySQL is perfect for beginning programmers or experienced developers. It shows how to code all the essential SQL statements for working with a MySQL database. It shows how to design a database, including how to use 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, and triggers. And it presents a starting set of skills for a database administrator (DBA). A must-have for anyone who works with MySQL.

A guide for MySQL administrators covers such topics as benchmarking, server performance, indexing, queries, hardware optimization, replication, scaling, cloud hosting, and backup and recovery. For MySQL, the price of popularity comes with a flood of questions from users on how to solve specific data-related issues. That's where this cookbook comes in. When you need quick solutions or techniques, this handy resource provides scores of short, focused pieces of code, hundreds of worked-out examples, and clear, concise explanations for programmers who don't have the time (or expertise) to resolve MySQL problems from scratch. In this updated fourth edition, authors Sveta Smirnova and Alkin Tezuysal provide more than 200 recipes that cover powerful features in both MySQL 5.7 and 8.0. Beginners as well as professional database and web developers will dive into topics such as MySQL Shell, MySQL replication, and working with JSON. You'll learn how to: Connect to a server, issue queries, and retrieve results Retrieve data from the MySQL Server Store, retrieve, and manipulate strings Work with dates and times Sort query results and generate summaries Assess the characteristics of a dataset Write stored functions and procedures Use stored routines, triggers, and scheduled events Perform basic MySQL administration tasks Understand MySQL monitoring fundamentals.

Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting applications. It is now being used by an increasing number of major organizations, including NASA and Google. Updated for Python 2.4, The Python Cookbook, 2nd Edition offers a wealth of useful code for all Python programmers, not just advanced practitioners. Like its predecessor, the new edition provides solutions to problems that Python programmers face everyday. It now includes over 200 recipes that range from simple tasks, such as working with dictionaries and list comprehensions, to complex tasks, such as monitoring a network and building a templating system. This revised version also includes new chapters on topics such as time, money, and metaprogramming. Here's a list of additional topics covered: Manipulating text Searching and sorting Working with files and the filesystem Object-oriented programming Dealing with threads and processes System administration Interacting with databases Creating user interfaces Network and web programming Processing XML Distributed programming Debugging and testing Another advantage of The Python Cookbook, 2nd Edition is its trio of authors--three well-known Python programming experts, who are highly visible on email lists and in newsgroups, and speak often at Python conferences. With scores of practical examples and pertinent background information, The Python Cookbook, 2nd Edition is the one source you need if you're looking to build efficient, flexible, scalable, and well-integrated systems.

PostgreSQL 13 Cookbook

MySQL 8 Cookbook

Although MySQL's source code is open in the sense of being publicly available, it's essentially closed to you if you don't understand it. In this book, Sasha Pachev -- a former member of the MySQL Development Team -- provides a comprehensive tour of MySQL 5 that shows you how to figure out the inner workings of this powerful database. You'll go right to heart of the database to learn how data structures and convenience functions operate, how to add new storage engines and configuration options, and much more. The core of Understanding MySQL Internals begins with an Architecture Overview that provides a brief introduction of how the different components of MySQL work together. You then learn the steps for setting up a working compatible copy of the code that you can change and test at your pleasure. Other sections of the book cover: Core server classes, structures, and API The communication protocol between the client and the server Configuration variables, the controls of the server; includes a tutorial on how to add your own Thread-based request handling -- understanding threads and how they are used in MySQL An overview of MySQL storage engines The storage engine interface for integrating third-party storage engines The table lock manager The parser and optimizer for improving MySQL's performance Integrating a transactional storage engine into MySQL The internals of replication Understanding MySQL Internals provides unprecedented opportunities for developers, DBAs, database application programmers, IT departments, software vendors, and computer science students to learn about the inner workings of this enterprise-proven database. With this book, you will soon reach a new level of comprehension regarding database development that will enable you to accomplish your goals. It's your guide to discovering and improving a great database.