

Introducing The Mysql 8 Document Store

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

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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 compilable 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

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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.

The Most Complete and Practical Guide to MySQL Version 5's Powerful SQL Dialect MySQL version 5 offers a SQL dialect with immense power. In SQL for MySQL Developers, Rick F. van der Lans helps you master this version of SQL and take advantage of its full potential. Using case study examples and

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hands-on exercises, van der Lans illuminates every key concept, technique, and statement—including advanced features that make it easier to create even the most complex statements and programs. Drawing on decades of experience as an SQL standards team member and enterprise consultant, he reveals exactly why MySQL’s dialect works as it does—and how to get the most out of it. You’ll gain powerful insight into everything from basic queries to stored procedures, transactions to data security. Whether you’re a programmer, Web developer, analyst, DBA, or database user, this book can take you from “apprentice” to true SQL expert. If you’ve used SQL in older versions of MySQL, you’ll become dramatically more effective—and if you’re migrating from other database platforms, you’ll gain

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practical mastery fast.

Uncover the power of MySQL 8 for Big Data About This Book Combine the powers of MySQL and Hadoop to build a solid Big Data solution for your organization Integrate MySQL with different NoSQL APIs and Big Data tools such as Apache Sqoop A comprehensive guide with practical examples on building a high performance Big Data pipeline with MySQL Who This Book Is For This book is intended for MySQL database administrators and Big Data professionals looking to integrate MySQL 8 and Hadoop to implement a high performance Big Data solution. Some previous experience with MySQL will be helpful, although the book will highlight the newer features introduced in MySQL 8. What You Will Learn Explore the features of MySQL 8 and

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how they can be leveraged to handle Big Data Unlock the new features of MySQL 8 for managing structured and unstructured Big Data Integrate MySQL 8 and Hadoop for efficient data processing Perform aggregation using MySQL 8 for optimum data utilization Explore different kinds of join and union in MySQL 8 to process Big Data efficiently Accelerate Big Data processing with Memcached Integrate MySQL with the NoSQL API Implement replication to build highly available solutions for Big Data In Detail With organizations handling large amounts of data on a regular basis, MySQL has become a popular solution to handle this structured Big Data. In this book, you will see how DBAs can use MySQL 8 to handle billions of records, and load and retrieve data with performance

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comparable or superior to commercial DB solutions with higher costs. Many organizations today depend on MySQL for their websites and a Big Data solution for their data archiving, storage, and analysis needs. However, integrating them can be challenging. This book will show you how to implement a successful Big Data strategy with Apache Hadoop and MySQL 8. It will cover real-time use case scenario to explain integration and achieve Big Data solutions using technologies such as Apache Hadoop, Apache Sqoop, and MySQL Applier. Also, the book includes case studies on Apache Sqoop and real-time event processing. By the end of this book, you will know how to efficiently use MySQL 8 to manage data for your Big Data applications. Style and approach Step by Step guide filled with real-world

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practical examples.

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.

MySQL Administrator's Bible
High Performance MySQL
Learning PHP, MySQL, JavaScript, and CSS

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Master SQL Fundamentals

Learning PHP, MySQL & JavaScript

Learning SQL

**A Simplified Approach to Developing
Database-Driven Websites**

Set up, manage, and configure the new InnoDB Cluster feature in MySQL from Oracle. If you are growing your MySQL installation and want to explore making your servers highly available, this book provides what you need to know about high availability and the new tools that are available in MySQL 8.0.11 and later.

Introducing InnoDB Cluster teaches you about the building blocks that make up InnoDB Cluster such as MySQL Group Replication for storing data redundantly, MySQL Router for the routing of inbound

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connections, and MySQL Shell for simplified setup and configuration, status reporting, and even automatic failover. You will understand how it all works together to ensure that your data are available even when your primary database server goes down. Features described in this book are available in the Community Edition of MySQL, beginning with the version 8.0.11 GA release, making this book relevant for any MySQL users in need of redundancy against failure. Tutorials in the book show how to configure a test environment and plan a production deployment. Examples are provided in the form of a walk-through of a typical MySQL high-availability

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*setup. What You'll Learn
Discover the newest high-
availability features in MySQL
Set up and use InnoDB Cluster as
an HA solution Migrate your
existing servers to MySQL 8
Employ best practices for using
InnoDB Cluster Configure
servers for optimal automatic
failover to ensure that
applications continue when a
server fails Configure MySQL
Router to load-balance inbound
connections to the cluster Who
This Book Is For Systems
engineers, developers, and
database professionals wanting
to learn about the powerful high
availability (HA) features,
beginning with MySQL 8.0.11:
MySQL Shell, MySQL Router,
and MySQL Group Replication.*

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The book is useful for those designing high-availability systems backed by a database, and for those interested in open source HA solutions.

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 MySQL's unique approach to basic database features and functions—as well as coverage of SQL queries, data and index types, stores procedure and

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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, security, and more.

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). Get a comprehensive overview on

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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

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*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*

*Introducing Microsoft Power BI
Learning the MySQL High*

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Availability Stack

*Introduction to Information
Retrieval*

*Database Management Systems
A Business-Oriented Approach
Using ORACLE, MySQL and MS
Access*

*Effective guide to administering
high-performance MySQL 8
solutions*

Pro MySQL NDB Cluster

*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.*

*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*

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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

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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.

PHP & MySQL: Novice to Ninja, 6th Edition is a hands-on guide to learning all the tools, principles, and techniques needed to build a fully functional application using PHP & MySQL.

Comprehensively updated to cover PHP 7 and modern best practice, this practical and fun book covers everything from installing PHP and MySQL through to creating a complete online content management system.

You'll learn how to: Install PHP & MySQL on Windows, Mac OS X, or Linux Gain a thorough understanding of PHP syntax Use object oriented programming techniques Master

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*database design principles and SQL
Develop robust websites that can
handle high levels of traffic Build a
working content management system
(CMS) And much more!*

*Describes the features and functions of
Apache Hive, the data infrastructure for
Hadoop.*

*MySQL Connector/Python Revealed
From Novice to Professional
NoSQL Distilled*

*Learning MySQL and MariaDB
Advanced MySQL 8*

*Introducing MySQL Shell
MySQL & JSON A Practical
Programming Guide*

Introducing the MySQL 8
Document Store
Apress
Design cost-efficient
database solutions,
scale enterprise

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operations and reduce
overhead business costs
with MySQL Key
FeaturesExplore the new
and advanced features of
MySQL 8.0Use advanced
techniques to optimize
MySQL performanceCreate
MySQL-based applications
for your enterprise with
the help of practical
examplesBook Description
Advanced MySQL 8 teaches
you to enhance your
existing database
infrastructure and build
various tools to improve
your enterprise
applications and overall

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website performance. The book starts with the new and exciting MySQL 8.0 features and how to utilize them for maximum efficiency. As you make your way through the chapters, you will learn to optimize MySQL performance using indexes and advanced data query techniques for large queries. You will also discover MySQL Server 8.0 settings and work with the MySQL data dictionary to boost the performance of your database. In the

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concluding chapters, you will cover MySQL 8.0 Group Replication, which will enable you to create elastic, highly available, and fault-tolerant replication topologies. You will also explore backup and recovery techniques for your databases and understand important tips and tricks to help your critical data reach its full potential. By the end of this book, you'll have learned about new MySQL 8.0 security features that

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allow a database administrator (DBA) to simplify user management and increase the security of their multi-user environments. What you will learnExplore new and exciting features of MySQL 8.0Analyze and optimize large MySQL queriesUnderstand MySQL Server 8.0 settingsMaster the deployment of Group Replication and use it in an InnoDB clusterMonitor large distributed

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databasesDiscover
different types of
backups and recovery
methods for your
databasesExplore tips to
help your critical data
reach its full
potentialWho this book
is for Advanced MySQL 8
is for database
administrators, data
architects, and database
developers who want to
dive deeper into
building advanced
database applications in
the MySQL environment.
Identify, analyze, and
improve poorly

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performing queries that damage user experience and lead to lost revenue for your business. This book will help you make query tuning an integral part of your daily routine through a multi-step process that includes monitoring of execution times, identifying candidate queries for optimization, analyzing their current performance, and improving them to deliver results faster and with less overhead.

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Author Jesper Krogh systematically discusses each of these steps along with the data sources and the tools used to perform them.

MySQL 8 Query

Performance Tuning aims to help you improve query performance using a wide range of strategies. You will know how to analyze queries using both the traditional EXPLAIN command as well as the new EXPLAIN ANALYZE tool. You also will see how to use the Visual

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Explain feature to provide a visually-oriented view of an execution plan. Coverage of indexes includes indexing strategies and index statistics, and you will learn how histograms can be used to provide input on skewed data distributions that the optimizer can use to improve query performance. You will learn about locks, and how to investigate locking issues. And you will come away with an

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understanding of how the MySQL optimizer works, including the new hash join algorithm, and how to change the optimizer's behavior when needed to deliver faster execution times. You will gain the tools and skills needed to delight application users and to squeeze the most value from corporate computing resources. What You Will LearnMonitor query performance to identify poor performersChoose queries to optimize that

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will provide the
greatest gain Analyze
queries using tools such
as EXPLAIN ANALYZE and
Visual Explain Improve
slow queries through a
wide range of
strategies Properly
deploy indexes and
histograms to aid in
creating fast execution
plans Understand and
analyze locks to resolve
contention and increase
throughput Who This Book
Is For Database
administrators and SQL
developers who are
familiar with MySQL and

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need to participate in query tuning. While some experience with MySQL is required, no prior knowledge of query performance tuning is needed.

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational

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database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other companies. Matt Fuller, Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from

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multiple sources to allow for analytics across your entire organization. Get started: Explore Trino's use cases and learn about tools that will help you connect to Trino and query data Go deeper: Learn Trino's internal workings, including how to connect to and query data sources with support for SQL statements, operators, functions, and more Put Trino in production: Secure Trino, monitor

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workloads, tune queries,
and connect more
applications; learn how
other organizations
apply Trino

Get Up to Speed With PHP
the Easy Way

Heading in the Right
Direction with MySQL and
MariaDB

With jQuery, CSS & HTML5
PHP & MySQL: Novice to
Ninja

A Step-by-Step Guide to
Creating Dynamic
Websites

MySQL and JSON: A
Practical Programming
Guide

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Practical PHP 7, MySQL
8, and MariaDB Website
Databases

**** 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***

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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. 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

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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. Move data back and forth between database and application. The must-have knowledge in this book helps programmers learn how to use the official driver, MySQL Connector/Python, by which Python programs communicate with the MySQL database. This book

takes you from the initial installation of the connector through basic query execution, then through more advanced topics, error handing, and troubleshooting. The book covers both the traditional API as well as the new X DevAPI. The X DevAPI is part of MySQL 8.0 and is an API that can be used with connectors for several programming languages and is used from the command-line interface known as MySQL Shell. You will learn to use the connector by working through code

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examples and following a discussion of how the API calls work. By the end of the book, you will be able to use MySQL as the back-end storage for your Python programs, and you'll even have the option of choosing between SQL and NoSQL interfaces. What You'll Learn

Install MySQL Connector/Python Connect to MySQL and configure database access Execute SQL and NoSQL queries from your Python program Trap errors and troubleshoot problems Store data from different languages using

MySQL's character set support Work in the X DevAPI that underlies all of MySQL's language connectors Who This Book Is For Developers familiar with Python who are looking at using MySQL as the back-end database. No prior knowledge of Connector/Python is assumed, but readers should be familiar with databases and the Python programming language. Combines language tutorials with application design advice to cover the PHP server-side scripting

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***language and the MySQL
database engine.***

***A Systematic Method for
Improving Execution Speeds
Effective data processing
with MySQL 8, Hadoop,
NoSQL APIs, and other Big
Data tools***

***Practical Design Tips and
Techniques***

***PHP and MySQL Web
Development***

***Creating Your MySQL
Database***

***Understanding MySQL
Internals***

***A Brief Guide to the
Emerging World of Polyglot
Persistence***

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Provides a collection of tips on fixing annoyances found in Microsoft Access, covering such topics as performance, security, database design, queries, forms, page layout, macros, and expressions.

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

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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

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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

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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
Learn the new Document Store

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feature of MySQL 8 and build applications around a mix of the best features from SQL and NoSQL database paradigms. Don't allow yourself to be forced into one paradigm or the other, but combine both approaches by using the Document Store. MySQL 8 was designed from the beginning to bridge the gap between NoSQL and SQL. Oracle recognizes that many solutions need the capabilities of both. More specifically, developers need to store objects as loose collections of schema-less documents, but those same developers also need the ability to run structured queries on their data. With MySQL 8, you can do both! Introducing the MySQL 8 Document Store presents new

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tools and features that make creating a hybrid database solution far easier than ever before. This book covers the vitally important MySQL Document Store, the new X Protocol for developing applications, and a new client shell called the MySQL Shell. Also covered are supporting technologies and concepts such as JSON, schema-less documents, and more. The book gives insight into how features work and how to apply them to get the most out of your MySQL experience. The book covers topics such as: The headline feature in MySQL 8 MySQL's answer to NoSQL New APIs and client protocols What You'll Learn Create NoSQL-style applications by using the

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Document Store Mix the NoSQL and SQL approaches by using each to its best advantage in a hybrid solution Work with the new X Protocol for application connectivity in MySQL 8 Master the new X Developer Application Programming Interfaces Combine SQL and JSON in the same database and application Migrate existing applications to MySQL Document Store Who This Book Is For Developers and database professionals wanting to learn about the most profound paradigm-changing features of the MySQL 8 Document Store Build interactive, data-driven websites with the potent combination of open source technologies and web standards, even if you have only basic HTML

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knowledge. In this update to this popular hands-on guide, you'll tackle dynamic web programming with the latest versions of today's core technologies: PHP, MySQL, JavaScript, CSS, HTML5, and key jQuery libraries. Web designers will learn how to use these technologies together and pick up valuable web programming practices along the way—including how to optimize websites for mobile devices. At the end of the book, you'll put everything together to build a fully functional social networking site suitable for both desktop and mobile browsers. Explore MySQL, from database structure to complex queries Use the MySQLi extension, PHP's improved MySQL interface Create dynamic PHP

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web pages that tailor themselves to the user Manage cookies and sessions and maintain a high level of security Enhance the JavaScript language with jQuery and jQuery mobile libraries Use Ajax calls for background browser-server communication Style your web pages by acquiring CSS2 and CSS3 skills Implement HTML5 features, including geolocation, audio, video, and the canvas element Reformat your websites into mobile web apps

How to Fix the Most Annoying Things About Your Favorite Database

Building Effective Database-Driven Web Sites

MySQL Reference Manual

MySQL 8 Cookbook

Introducing the MySQL 8

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Document Store

SQL for MySQL Developers

Web Database Applications with
PHP and MySQL

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Introducing Microsoft Power BI enables you to evaluate when and how to use Power BI. Get inspired to improve business processes in your company by leveraging the available analytical and collaborative features of this environment. Be sure to watch for the publication of Alberto Ferrari and Marco Russo's upcoming retail book, Analyzing Data with Power BI and Power Pivot for Excel (ISBN 9781509302765). Go to the book's page at the Microsoft Press Store here

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for more details:<http://aka.ms/analyzingdata/details>. Learn more about Power BI at

<https://powerbi.microsoft.com/>.

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

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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

Build interactive, database-driven websites with PHP 7, MySQL 8, and MariaDB. The focus of this book is on getting you up and running as quickly as possible with real-world

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applications. In the first two chapters, you will set up your development and testing environment, and then build your first PHP and MariaDB or MySQL database-driven website. You will then increase its sophistication, security, and functionality throughout the course of the book. The PHP required is taught in context within each project so you can quickly learn how PHP integrates with MariaDB and MySQL to create powerful database-driven websites. Each project is fully illustrated, so you will see clearly what you are building as you create your own database-driven website. You will build a form for registering users, and then build an interface so that an administrator can view and administer the user database. You will create a message board for users and a method for emailing them. You will

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also learn the best practices for ensuring that your website databases are secure. Later chapters describe how to create a product catalog, and a simple e-commerce site. You will also discover how to migrate a database to a remote host. The final chapter will demonstrate the advantages of migrating to Oracle's MySQL 8. You will be shown step by step migration directions along with a demonstration of the tools available in SQL Workbench. Because you are building the interactive pages yourself, you will know exactly how MySQL, MariaDB, and PHP all work together, and you will be able to add database interactivity to your own websites with ease. What You Will Learn Build a secure database-driven website using PHP 7, MySQL 8, and MariaDB Create a product catalog Write a

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message board Move towards e-commerce Employ security and validation measures Migrate to Oracle's MySQL 8 Server platform Who This Book Is For Web developers with HTML, CSS and a limited Bootstrap experience. Readers need little to no prior experience with PHP and MySQL.

"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 for organizations large and small handle data, providing robust and efficient access in ways not offered by spreadsheets and other

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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 enhancements ; Improving database performance ; Accessing MySQL from popular languages"--

Over 150 recipes for high-performance database querying and administration

Programming Hive

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

MySQL 8 Query Performance Tuning

Select Proceedings of ICCIML 2021

MySQL 8 for Big Data

Administration Made Easy with

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Python

Create and run a real-time, highly-available, and high-redundancy version of the world's most popular open-source database, MySQL. You will understand the advantages and disadvantages of the MySQL NDB Cluster solution, and when MySQL NDB Cluster is the right choice. Pro MySQL NDB Cluster walks you through the full lifecycle of a MySQL Cluster installation: starting with the installation and initial configuration, moving through online configuration and schema changes, and completing with online upgrades. Along the way, you will learn to monitor your cluster, make decisions about schema design, implement

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geographic replication, troubleshoot and optimize performance, and much more. This book covers the many programming APIs that are supported by MySQL NDB Cluster. There's also robust coverage of connecting to MySQL NDB Cluster from Java, SQL, memcached, and even from C++. From any of these languages, you'll be able to connect and store and retrieve data as your applications demand. The book:

- Covers MySQL NDB Cluster concepts and architecture
- Takes you through the MySQL NDB Cluster lifecycle from installation to upgrades
- Guides you through DBA and Developer decisions when working with MySQL NDB Cluster

What You'll Learn Understand the

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shared-nothing architecture behind
MySQL NDB Cluster Plan, install,
and configure a MySQL NDB
Cluster environment Perform
everyday tasks such as backing up,
restoring, and upgrading Develop
applications from Java,
memcached, C++, and SQL
Troubleshoot and resolve
application performance problems
Master enterprise-level features
such the MySQL NDB Cluster
Manager Who This Book Is For
Database administrators and
developers who are looking into
deploying MySQL NDB Cluster, or
who already have a cluster in
production and want to increase
their knowledge and ability to
handle routine administrative tasks

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and troubleshooting. The book also is for those developers wanting to employ MySQL NDB Cluster as their chosen storage engine from Java, memcached, and C++ applications.

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.

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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

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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

Practical instruction on using JavaScript Object Notation (JSON) with MySQL This hands-on guide teaches, step by step, how to use JavaScript Object Notation (JSON) with MySQL. Written by a MySQL Community Manager for Oracle, MySQL and JSON: A Practical Programming Guide shows how to quickly get started using JSON with MySQL and clearly explains the latest tools and functions. All content is based on the author's

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years of interaction with MySQL professionals. Throughout, real-world examples and sample code guide you through the syntax and application of each method. You will get in-depth coverage of programming with the MySQL Document Store.

- See how JavaScript Object Notation (JSON) works with MySQL
- Use JSON as string data and JSON as a data type
- Find the path, load data, and handle searches with REGEX
- Work with JSON and non-JSON output
- Build virtual generated columns and stored generated columns
- Generate complex geometries using GeoJSON
- Convert and manage data with JSON functions
- Access

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JSON data, collections, and tables through MySQL Document Store
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

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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

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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

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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

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database concepts is required to get started with this book.

Trino: The Definitive Guide
Second Edition

MySQL 8 Administrator's Guide

Computational Intelligence in
Machine Learning

Introducing InnoDB Cluster

A Comprehensive Tutorial and
Reference (Adobe Reader)

Fixing Access Annoyances

Use MySQL Shell, the first modern and advanced client for connecting to and interacting with MySQL. It supports SQL, Python, and JavaScript. That's right! You can write Python scripts and execute them within the shell interactively, or in batch mode. The level of automation available from Python combined with batch mode is especially helpful to those practicing

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DevOps methods in their database environments. Introducing MySQL Shell covers everything you need to know about MySQL Shell. You will learn how to use the shell for SQL, as well as the new application programming interfaces for working with a document store and even automating your management of MySQL servers using Python. The book includes a look at the supporting technologies and concepts such as JSON, schema-less documents, NoSQL, MySQL Replication, Group Replication, InnoDB Cluster, and more. MySQL Shell is the client that developers and database administrators have been waiting for. Far more powerful than the legacy client, MySQL Shell enables levels of automation that are useful not only for MySQL, but in the broader context of

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your career as well. Automate your work and build skills in one of the most in-demand languages. With MySQL Shell, you can do both! What You'll Learn Use MySQL Shell with the newest features in MySQL 8 Discover what a Document Store is and how to manage it with MySQL Shell Configure Group Replication and InnoDB Cluster from MySQL Shell Understand the new MySQL Python application programming interfaces Write Python scripts for managing your data and the MySQL high availability features Who This Book Is For Developers and database professionals who want to automate their work and remain on the cutting edge of what MySQL has to offer. Anyone not happy with the limited automation capabilities of the legacy command-line client will find much to like in this book on the

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MySQL Shell that supports powerful automation through the Python scripting language.

The book includes select proceedings of the International Conference on Computational Intelligence in Machine Learning (ICCIML 2021). The book constitutes peer-reviewed papers on machine learning, computational intelligence, the internet of things, and smart city applications emphasizing multi-disciplinary research in artificial intelligence and cyber-physical systems. This book addresses the comprehensive nature of computational intelligence, artificial intelligence, machine learning, and deep learning to emphasize its character in modeling, identification, optimization, prediction, forecasting, and control of future intelligent systems. The book will be useful for

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researchers, research scholars, and students to formulate their research ideas and find future directions in these areas. It will help the readers to solve a diverse range of problems in industries and their real-world applications.

A short guide for everyone on how to structure your data and set-up your MySQL database tables efficiently and easily.

Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.

Discovering and Improving a Great Database

SQL and NoSQL Data Storage Using MySQL for Python Programmers

Beginning PHP and MySQL 5

Learning MySQL

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Documentation from the Source
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

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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

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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

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'NoSQL Distilled' is designed to provide you with enough background on how NoSQL databases work, so that you can choose the right data store without having to trawl the whole web to do it. It won't answer your questions definitively, but it should narrow down the range of options you have to consider. Class-tested and coherent, this textbook teaches classical and web information retrieval, including web

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search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it

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perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to

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help course instructors
prepare their lectures.
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

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8 database solution
without any hassle Book
Description MySQL 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
ever before. 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

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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,

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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

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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

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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

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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.