

MySQL Admin Cookbook



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In Detail

MySQL is the most popular open-source database and is also known for its easy set up feature. However, proper configuration beyond the default settings still is a challenge,

along with some other day-to-day maintenance tasks such as backing up and restoring, performance tuning, and server monitoring. These tasks have not been covered thoroughly in the default documentation.

This book provides both step-by-step recipes and relevant background information on these topics and more. It covers everything from basic to advanced aspects of MySQL administration and configuration. One of the things you are really going to love about this book is that all recipes are based on real-world experience and were derived from proven solutions used in an enterprise environment.

This book shows you everything you need to know about MySQL Administration. You will learn to set up MySQL replication to manage load balancing and deal with online backup and fail-over scenarios. As you consider the benefits of backing up, you might like to back up your database efficiently with advanced techniques covered in this book.

The book demonstrates how to create, modify, and delete indexes. You will also learn to identify duplicate indexes, which hinder your MySQL server performance. This book focuses on administration tasks and will help you as an administrator to optimize the database for efficiency and reliability.

You will learn to manage data efficiently by inserting data in existing database content and importing and exporting databases. The sooner you learn about taking advantage of metadata from this book, the sooner you can start using the space efficiently. Get to know about managing users and assigning privileges and regaining lost administrative user credentials. Finally, learn to manage the database schema by customizing it to automate database schema evolution in the context of application updates.

What you will learn from this book

Set up MySQL replication to manage load balancing, online back up, and fail-over scenarios

Create, modify, and delete indexes; also identify duplicate indexes to optimize your MySQL servers' performance

Leverage the power of MySQL Administrator, Query Browser GUI Tools, and the MySQL command line client

Back up your database and restore the data efficiently and reliably with advanced techniques such as on-the-fly compression, point-in-time recovery, avoiding extended lock situations, backup in replication scenarios, and partial backup and restore.

Manage data by deleting data in a highly efficient manner, inserting data based on existing database content, and importing and exporting data in a customizable manner

Monitor table space usage and use database metadata to your advantage

Deal with typical performance bottlenecks and lock-contention problems

Configure MySQL and leverage available settings to their full potential

Manage MySQL user accounts and assign appropriate privileges

Restrict access sensibly and regain access to your database in case of loss of administrative user credentials

Manage the schema by adding and removing columns from tables, choosing a suitable storage engine and character set for individual needs

Add a new primary key column to a table already filled with data and also manage and automate database schema evolution in the context of application updates

Approach

This book uses the approach of a cookbook, presenting 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

Administrators of all skill-levels will find step-by-step instructions for practical approaches to MySQL configuration, maintenance, and optimization topics. Each recipe uses a concrete example for easy understanding.

Who this book is written for

This book is for ambitious MySQL users as well as professional data center database administrators. Beginners as well as experienced administrators will profit 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.

作者介绍:

Daniel Schneller

Daniel Schneller works as a software developer, database administrator, and general IT professional for an independent software vendor in the retail sector. After successfully graduating from the University of Cooperative Education in Heidenheim, Germany with a degree in Business Computer Science, he started his career as a professional software developer, focused on the Microsoft technology stack. In 2002 he started focusing on enterprise-level Java development and has since gained extensive knowledge and experience implementing large scale systems based on Java EE and relational databases, especially MySQL since version 4.0.

Currently he is mostly involved with the ongoing development of framework-level functionality, including customization and extension of an ORM-based persistence layer. He is involved in different open source projects such as FindBugs, Eclipse, and Checkstyle and infrequently blogs about Java, MySQL, Windows, Linux and other insanities at <http://www.danielschneller.com>.

Udo Schwedt

Udo Schwedt is head of the Java architecture team and deputy head of the Java

development department at the IT service provider for Germany's market leader in the Do-It-Yourself sector. After finishing his studies at RWTH Aachen, Germany with a degree in Computer Science, he started his career as a professional Java developer in a leading software company in the banking sector. In 2003, he joined his current company as a framework developer, subsequently taking the role of a lead architect.

Both authors are involved in a large scale international software project, which encompasses development of a Java-based merchandise management software solution. This decentralized multi-platform environment is based on more than 500 decentralized MySQL server instances with more than 5,500 replication slaves. Daniel and Udo are responsible for configuration and management of this infrastructure.

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评论

mysql管理中所遇到的大部分问题都给了回答。有经验的网友如果想快速掌握Mysql,这本不错

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书评

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