
Mastering Postgresql 10 Expert Techniques On Post

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*Mastering Postgresql
10 Expert Techniques
On Post*

2019-07-28

SAWYER DIAZ

Mastering PostgreSQL 13 Packt

Publishing Ltd

Develop modern solutions with Snowflake's unique architecture and integration capabilities; process bulk and real-time data into a data lake; and leverage time travel, cloning, and data-sharing features to optimize data operations

Key Features

Build and scale modern data solutions using the all-in-one Snowflake platform

Perform advanced cloud analytics for implementing big data and data science solutions

Make quicker and better-informed business decisions by uncovering key insights from your data

Book Description

Snowflake is a unique cloud-based data warehousing platform built from scratch to perform data management on the cloud. This book introduces you to Snowflake's

unique architecture, which places it at the forefront of cloud data warehouses. You'll explore the compute model available with Snowflake, and find out how Snowflake allows extensive scaling through the virtual warehouses. You will then learn how to configure a virtual warehouse for optimizing cost and performance. Moving on, you'll get to grips with the data ecosystem and discover how Snowflake integrates with other technologies for staging and loading data. As you progress through the chapters, you will leverage Snowflake's capabilities to process a series of SQL statements using tasks to build data pipelines and find out how you can create modern data solutions and pipelines designed to provide high performance and scalability. You will also

get to grips with creating role hierarchies, adding custom roles, and setting default roles for users before covering advanced topics such as data sharing, cloning, and performance optimization. By the end of this Snowflake book, you will be well-versed in Snowflake's architecture for building modern analytical solutions and understand best practices for solving commonly faced problems using practical recipes. What you will learn

Get to grips with data warehousing techniques aligned with Snowflake's cloud architecture

Broaden your skills as a data warehouse designer to cover the Snowflake ecosystem

Transfer skills from on-premise data warehousing to the Snowflake cloud analytics platform

Optimize performance and costs

associated with a Snowflake solution

Stage data on object stores and load it into Snowflake

Secure data and share it efficiently for access

Manage transactions and extend Snowflake using stored procedures

Extend cloud data applications using Spark Connector

Who this book is for

This book is for data warehouse developers, data analysts, database administrators, and anyone involved in designing, implementing, and optimizing a Snowflake data warehouse. Knowledge of data warehousing and database and cloud concepts will be useful. Basic familiarity with Snowflake is beneficial, but not necessary.

PostgreSQL 14 Administration Cookbook
John Wiley & Sons

Master the capabilities of PostgreSQL 11 to efficiently manage and maintain your

database Key Features Master advanced concepts of PostgreSQL 11 with real-world datasets and examples Explore query parallelism, data replication, and database performance while working with larger datasets Extend the functionalities of your PostgreSQL instance to suit your organization's needs with minimal effort Book Description This second edition of Mastering PostgreSQL 11 helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSQL, which enables database analysts to design both the physical and technical aspects of the system architecture with ease. This book begins with an introduction to the newly released features in PostgreSQL 11 to help you build efficient and fault-tolerant

PostgreSQL applications. You'll examine all of the advanced aspects of PostgreSQL in detail, including logical replication, database clusters, performance tuning, monitoring, and user management. You will also work with the PostgreSQL optimizer, configuring PostgreSQL for high speed, and see how to move from Oracle to PostgreSQL. As you progress through the chapters, you will cover transactions, locking, indexes, and optimizing queries to improve performance. Additionally, you'll learn to manage network security and explore backups and replications, while understanding the useful extensions of PostgreSQL so that you can optimize the speed and performance of large databases. By the end of this book, you will be able to use your

database to its utmost capacity by implementing advanced administrative tasks with ease. What you will learn Get to grips with advanced PostgreSQL 11 features and SQL functions Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with stored procedures and manage backup and recovery Master replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Perform database migration from MySQL and Oracle to PostgreSQL with ease Who this book is for This book is for data and database professionals wanting to implement advanced functionalities and master complex administrative tasks with PostgreSQL 11. Prior experience of

database administration with PostgreSQL database will aid in understanding the concepts covered in this book.

Snowflake Cookbook "O'Reilly Media, Inc."

Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, *Learning SQL, Second Edition*, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let

you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

Mastering PostGIS Packt Publishing Ltd
Design, administer, and deploy high-

volume and fault-tolerant database applications using MongoDB 4.x Key Features Build a powerful and scalable MongoDB database using real industry data Understand the process of designing NoSQL schema with the latest release of MongoDB 4.x Explore the ins and outs of MongoDB, including queries, replication, sharding, and vital admin tasks Book Description When it comes to managing a high volume of unstructured and non-relational datasets, MongoDB is the defacto database management system (DBMS) for DBAs and data architects. This updated book includes the latest release and covers every feature in MongoDB 4.x, while helping you get hands-on with building a MongoDB database app. You'll get to grips with MongoDB 4.x concepts such as indexes,

database design, data modeling, authentication, and aggregation. As you progress, you'll cover tasks such as performing routine operations when developing a dynamic database-driven website. Using examples, you'll learn how to work with queries and regular database operations. The book will not only guide you through design and implementation, but also help you monitor operations to achieve optimal performance and secure your MongoDB database systems. You'll also be introduced to advanced techniques such as aggregation, map-reduce, complex queries, and generating ad hoc financial reports on the fly. Later, the book shows you how to work with multiple collections as well as embedded arrays and documents, before finally exploring key

topics such as replication, sharding, and security using practical examples. By the end of this book, you'll be well-versed with MongoDB 4.x and be able to perform development and administrative tasks associated with this NoSQL database. What you will learn

- Understand how to configure and install MongoDB 4.x
- Build a database-driven website using MongoDB as the backend
- Perform basic database operations and handle complex MongoDB queries
- Develop a successful MongoDB database design for large corporate customers with complex requirements
- Secure MongoDB database systems by establishing role-based access control with X.509 transport-level security
- Optimize reads and writes directed to a replica set or sharded cluster
- Perform essential MongoDB

administration tasks Maintain database performance through monitoring Who this book is for This book is a MongoDB tutorial for DevOps engineers, database developers, database administrators, system administrators and those who are just getting started with NoSQL and looking to build document-oriented databases and gain real-world experience in managing databases using MongoDB. Basic knowledge of databases and Python is required to get started with this DBMS book.

Mastering CloudForms Automation Packt Publishing Ltd

Integrating data from multiple sources is essential in the age of big data, but it can be a challenging and time-consuming task. This handy cookbook provides dozens of ready-to-use recipes

for using Apache Sqoop, the command-line interface application that optimizes data transfers between relational databases and Hadoop. Sqoop is both powerful and bewildering, but with this cookbook's problem-solution-discussion format, you'll quickly learn how to deploy and then apply Sqoop in your environment. The authors provide MySQL, Oracle, and PostgreSQL database examples on GitHub that you can easily adapt for SQL Server, Netezza, Teradata, or other relational systems. Transfer data from a single database table into your Hadoop ecosystem Keep table data and Hadoop in sync by importing data incrementally Import data from more than one database table Customize transferred data by calling various database

functions Export generated, processed, or backed-up data from Hadoop to your database Run Sqoop within Oozie, Hadoop's specialized workflow scheduler Load data into Hadoop's data warehouse (Hive) or database (HBase) Handle installation, connection, and syntax issues common to specific database vendors

Metabase Up and Running "O'Reilly Media, Inc."

"PostgreSQL" leads users through the internals of an open-source database. Throughout the book are explanations of data structures and algorithms, each backed by a concrete example from the actual source code. Each section contains information about performance implications, debugging techniques, and pointers to more information (on the

Web and in book form).

Mastering PostgreSQL 11 "O'Reilly Media, Inc."

Summary MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology This document-oriented database was built for high availability, supports rich, dynamic schemas, and lets you easily distribute data across multiple servers. MongoDB 3.0 is flexible, scalable, and very fast, even

with big data loads. About the Book MongoDB in Action, Second Edition is a completely revised and updated version. It introduces MongoDB 3.0 and the document-oriented database model. This perfectly paced book gives you both the big picture you'll need as a developer and enough low-level detail to satisfy system engineers. Lots of examples will help you develop confidence in the crucial area of data modeling. You'll also love the deep explanations of each feature, including replication, auto-sharding, and deployment. What's Inside Indexes, queries, and standard DB operations Aggregation and text searching Map-reduce for custom aggregations and reporting Deploying for scale and high availability Updated for Mongo 3.0 About the Reader Written

for developers. No previous MongoDB or NoSQL experience is assumed. About the Authors After working at MongoDB, Kyle Banker is now at a startup. Peter Bakkum is a developer with MongoDB expertise. Shaun Verch has worked on the core server team at MongoDB. A Genentech engineer, Doug Garrett is one of the winners of the MongoDB Innovation Award for Analytics. A software architect, Tim Hawkins has led search engineering at Yahoo Europe. Technical Contributor: Wouter Thielen. Technical Editor: Mihalis Tsoukalos. Table of Contents PART 1 GETTING STARTED A database for the modern web MongoDB through the JavaScript shell Writing programs using MongoDB PART 2 APPLICATION DEVELOPMENT IN MONGODB Document-oriented data

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Replication Scaling your system with
sharding Deployment and administration
PostgreSQL 11 Administration Cookbook
Simon and Schuster
PostGIS in Action, Third Edition teaches
you to solve real-world geodata
problems. It first gives you a background
in vector-, raster-, and topology-based
GIS and then quickly moves into
analyzing, viewing, and mapping data.
You'll learn how to optimize queries for
maximum speed, simplify geometries for
greater efficiency, and create custom
functions for your own applications.
You'll also learn how to apply your

existing GIS knowledge to PostGIS and
integrate with other GIS tools. Fully
updated to the latest versions of PostGIS
and PostgreSQL, this Third Edition covers
new PostGIS features including Foreign
Data Wrappers, Database as a Service,
parallelization of queries, and new JSON
and Vector Tiles functions that help in
creating web mapping applications. Key
Features · An introduction to spatial
databases · Geometry, geography,
raster, and topology spatial types, ·
functions, and queries · Applying PostGIS
to real-world problems · Extending
PostGIS to web and desktop applications
· Updated for PostGIS 3 and PostgreSQL
12 For readers familiar with relational
databases and basic SQL. About the
technology Processing location and
topology data requires specialized know-

how. PostGIS is a free spatial database extender for PostgreSQL that delivers the features and firepower you need to take on nearly any geodata task. With it, you can easily create location-aware queries in just a few lines of SQL code and build the back end for a mapping, raster analysis, or routing application with minimal effort. Regina Obe and Leo Hsu are database consultants and authors. Regina is a member of the PostGIS core development team and the Project Steering Committee.

Mastering Business Intelligence with MicroStrategy John Wiley & Sons

A comprehensive guide to building, managing, and securing scalable and reliable database and data warehousing applications using Postgres 12 and 13
Key Features
Set up your database

cluster and monitor, secure, and fine-tune it for optimal performance
Learn the fundamentals of database management and implement client- and server-side programming using SQL and PL/pgSQL
Explore useful tips to develop efficient PostgreSQL database solutions from scratch
Book Description
PostgreSQL is one of the fastest-growing open source object-relational database management systems (DBMS) in the world. As well as being easy to use, it's scalable and highly efficient. In this book, you'll explore PostgreSQL 12 and 13 and learn how to build database solutions using it. Complete with hands-on tutorials, this guide will teach you how to achieve the right database design required for a reliable environment. You'll learn how to install

and configure a PostgreSQL server and even manage users and connections. The book then progresses to key concepts of relational databases, before taking you through the Data Definition Language (DDL) and commonly used DDL commands. To build on your skills, you'll understand how to interact with the live cluster, create database objects, and use tools to connect to the live cluster. You'll then get to grips with creating tables, building indexes, and designing your database schema. Later, you'll explore the Data Manipulation Language (DML) and server-side programming capabilities of PostgreSQL using PL/pgSQL, before learning how to monitor, test, and troubleshoot your database application to ensure high-performance and reliability. By the end

of this book, you'll be well-versed with the Postgres database and be able to set up your own PostgreSQL instance and use it to build robust solutions. What you will learn

- Understand how users and connections are managed by running a PostgreSQL instance
- Interact with transaction boundaries using server-side programming
- Identify bottlenecks to maintain your database efficiently
- Create and manage extensions to add new functionalities to your cluster
- Choose the best index type for each situation
- Use online tools to set up a memory configuration that will suit most databases
- Explore how Postgres can be used in multi-instance environments to provide high-availability, redundancy, and scalability

Who this book is for This Postgres book is for anyone interested in

learning about the PostgreSQL database from scratch. Anyone looking to build robust data warehousing applications and scale the database for high-availability and performance using the latest features of PostgreSQL will also find this book useful. Although prior knowledge of PostgreSQL is not required, familiarity with databases is expected.

MongoDB Fundamentals Packt Publishing Ltd

Obtain all the skills you need to configure and manage a PostgreSQL database. In this book you will begin by installing and configuring PostgreSQL on a server by focusing on system-level parameter settings before installation. You will also look at key post-installation steps to avoid issues in the future. The basic configuration of PostgreSQL is

tuned for compatibility rather than performance. Keeping this in mind, you will fine-tune your PostgreSQL parameters based on your environment and application behavior. You will then get tips to improve database monitoring and maintenance followed by database security for handling sensitive data in PostgreSQL. Every system containing valuable data needs to be backed-up regularly. PostgreSQL follows a simple back-up procedure and provides fundamental approaches to back up your data. You will go through these approaches and choose the right one based on your environment. Running your application with limited resources can be tricky. To achieve this you will implement a pooling mechanism for your PostgreSQL instances to connect to

other databases. Finally, you will take a look at some basic errors faced while working with PostgreSQL and learn to resolve them in the quickest manner.

What You Will Learn Configure PostgreSQL for performance Monitor and maintain PostgreSQL instances Implement a backup strategy for your data Resolve errors faced while using PostgreSQL Who This Book Is For Readers with basic knowledge of PostgreSQL who wish to implement key solutions based on their environment.

Mastering PostgreSQL 11 Apress
A practical guide to administer, monitor and replicate your PostgreSQL 11 database Key Features Study and apply the newly introduced features in PostgreSQL 11 Tackle any problem in PostgreSQL 11 administration and

management Catch up on expert techniques for monitoring, fine-tuning, and securing your database Book Description PostgreSQL is a powerful, open source database management system with an enviable reputation for high performance and stability. With many new features in its arsenal, PostgreSQL 11 allows you to scale up your PostgreSQL infrastructure. This book takes a step-by-step, recipe-based approach to effective PostgreSQL administration. The book will introduce you to new features such as logical replication, native table partitioning, additional query parallelism, and much more to help you to understand and control, crash recovery and plan backups. You will learn how to tackle a variety of problems and pain points for

any database administrator such as creating tables, managing views, improving performance, and securing your database. As you make steady progress, the book will draw attention to important topics such as monitoring roles, backup, and recovery of your PostgreSQL 11 database to help you understand roles and produce a summary of log files, ensuring high availability, concurrency, and replication. By the end of this book, you will have the necessary knowledge to manage your PostgreSQL 11 database efficiently. What you will learn Troubleshoot open source PostgreSQL version 11 on various platforms Deploy best practices for planning and designing live databases Select and implement robust backup and recovery techniques in

PostgreSQL 11 Use pgAdmin or OmniDB to perform database administrator (DBA) tasks Adopt efficient replication and high availability techniques in PostgreSQL Improve the performance of your PostgreSQL solution Who this book is for This book is designed for database administrators, data architects, database developers, or anyone with an interest in planning and running live production databases using PostgreSQL 11. It is also ideal if you're looking for hands-on solutions to any problem associated with PostgreSQL 11 administration. Some experience with handling PostgreSQL databases will be beneficial

MongoDB in Action Lulu.com

Master the capabilities of PostgreSQL 9.6 to efficiently manage and maintain your database About This Book Your one-stop

guide to mastering the advanced concepts in PostgreSQL with ease Master query optimization, replication, and high availability with PostgreSQL Extend the functionalities of PostgreSQL to suit your organizational needs with minimum effort Who This Book Is For If you are a PostgreSQL data architect or an administrator who wants to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL, then this book is perfect for you. Prior experience of administrating a PostgreSQL database and a working knowledge of SQL is required to make the best use of this book. What You Will Learn Get to grips with the advanced features of PostgreSQL 9.6 and handle advanced SQL Make use of the indexing

features in PostgreSQL and fine-tune the performance of your queries Work with the stored procedures and manage backup and recovery Master the replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to the common and not-so-common problems Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle In Detail PostgreSQL is an open source database used for handling large datasets (Big Data) and as a JSON document database. It also has applications in the software and web domains. This book will enable you to build better PostgreSQL applications and administer databases more efficiently. We begin by explaining the advanced database design concepts in PostgreSQL 9.6,

along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery and high availability, and much more. You will understand the common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of the advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL. Style and Approach This book is a comprehensive

guide covering all the concepts you need to master PostgreSQL. Packed with hands-on examples, tips and tricks, even the most advanced concepts are explained in a very easy-to-follow manner. Every chapter in the book does not only focus on how each task is performed, but also why.

Cassandra: The Definitive Guide

Packt Publishing Ltd

*The most updated PostgreSQL book on the market, covering version 8.0

*Highlights the most popular PostgreSQL APIs, including C, Perl, PHP, and Java

*This is two books in one; it simultaneously covers key relational database design principles, while teaching PostgreSQL

Mastering PostgreSQL 10 Packt Publishing Ltd

Learn how to deploy and monitor databases in the cloud, manipulate documents, visualize data, and build applications running on MongoDB using Node.js Key Features Learn the fundamentals of NoSQL databases with MongoDB Create, manage, and optimize a MongoDB database in the cloud using Atlas Use a real-world dataset to gain practical experience of handling big data Book Description MongoDB is one of the most popular database technologies for handling large collections of data. This book will help MongoDB beginners develop the knowledge and skills to create databases and process data efficiently. Unlike other MongoDB books, MongoDB Fundamentals dives into cloud computing from the very start – showing you how to get started with Atlas in the

first chapter. You will discover how to modify existing data, add new data into a database, and handle complex queries by creating aggregation pipelines. As you progress, you'll learn about the MongoDB replication architecture and configure a simple cluster. You will also get to grips with user authentication, as well as techniques for backing up and restoring data. Finally, you'll perform data visualization using MongoDB Charts. You will work on realistic projects that are presented as bitesize exercises and activities, allowing you to challenge yourself in an enjoyable and attainable way. Many of these mini-projects are based around a movie database case study, while the last chapter acts as a final project where you will use MongoDB to solve a real-world problem based on a

bike-sharing app. By the end of this book, you'll have the skills and confidence to process large volumes of data and tackle your own projects using MongoDB. What you will learn

- Set up and use MongoDB Atlas on the cloud
- Insert, update, delete, and retrieve data from MongoDB
- Build aggregation pipelines to perform complex queries
- Optimize queries using indexes
- Monitor databases and manage user authorization
- Improve scalability and performance with sharding
- Clusters, back up your database, and restore data
- Create data-driven charts and reports from real-time data

Who this book is for This book is designed for people who are new to MongoDB. It is suitable for developers, database administrators, system administrators,

and cloud architects who are looking to use MongoDB for smooth data processing in the cloud. Although not necessary, basic knowledge of a general programming language and experience with other databases will help you grasp the topics covered more easily.

[Learn MongoDB 4.x](#) Packt Publishing Ltd

With over 200 recipes covering real-world examples, take your Odoo development skills to the next level and solve complex business problems using this guide

- Key Features
- Learn to develop new modules and modify existing modules using the Odoo framework
- Explore key concepts of the Odoo framework to build robust business applications
- Create dynamic websites with snippets and learn to deploy an Odoo instance on the server or Odoo.sh

Book Description With its latest iteration, the powerful Odoo framework released a wide variety of features for rapid application development. This updated Odoo development cookbook will help you explore the new features in Odoo 14 and learn how to use them to develop Odoo applications from scratch. You'll learn about the new website concepts in Odoo 14 and get a glimpse of Odoo's new web-client framework, the Odoo Web Library (OWL). Once you've completed the installation, you'll begin to explore the Odoo framework with real-world examples. You'll then create a new Odoo module from the ground up and progress to advanced framework concepts. You'll also learn how to modify existing applications, including Point of Sale (POS) applications. This book isn't

just limited to backend development; you'll discover advanced JavaScript recipes for creating new views and widgets. As you progress, you'll learn about website development and become a quality Odoo developer by studying performance optimization, debugging, and automated testing. Finally, you'll delve into advanced concepts such as multi-website, In-App Purchasing (IAP), Odoo.sh, the IoT Box, and security. By the end of the book, you'll have all the knowledge you need to build impressive Odoo applications and you'll be well versed in development best practices that will come in handy when working with the Odoo framework. What you will learn

- Build beautiful websites with Odoo CMS using dynamic building blocks
- Get to grips with advanced concepts

such as caching, prefetching, debugging

- Modify backend JavaScript components and POS applications with the new OWL framework
- Connect and access any object in Odoo via Remote Procedure Calls (RPC)
- Manage, deploy, and test an Odoo instance with Odoo.sh
- Configure IoT Box to add and upgrade Point of Sale (POS) hardware
- Find out how to implement in-app purchase services

Who this book is for This book is suitable for both newcomers and experienced Odoo developers who want to develop a highly efficient business application with the Odoo framework. Basic knowledge of Python and JavaScript is necessary to get the most out of the book.

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PostGIS in Action, Third Edition

Packt Publishing Ltd

Master the capabilities of PostgreSQL 10 to efficiently manage and maintain your database. Key Features: Your one-stop guide to mastering advanced concepts in PostgreSQL 10 with ease. Master query optimization, replication, and high availability with PostgreSQL. Extend the functionalities of your PostgreSQL instance to suit your organizational needs with minimal effort. Book Description: PostgreSQL is an open source database used for handling large datasets (big data) and as a JSON document database. This book highlights the newly introduced features in PostgreSQL 10, and shows you how you can build better PostgreSQL applications, and administer your PostgreSQL database more efficiently. We begin by explaining advanced database design

concepts in PostgreSQL 10, along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery, high availability, and much more. You will understand common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL 10. What you will learn: Get to grips with the advanced

features of PostgreSQL 10 and handle advanced SQL. Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries. Work with stored procedures and manage backup and recovery. Master replication and failover techniques. Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems. Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle. Who this book is for: If you are a PostgreSQL data architect or an administrator and want to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL 10, then this book is perfect for you. Prior experience of administrating a PostgreSQL database and a working

knowledge of SQL are required to make the best use of this book.

Mastering GitLab 12 Packt Publishing Ltd

Get to know effective ways to improve PostgreSQL's performance and master query optimization, and database monitoring. About This Book Perform essential database tasks such as benchmarking the database and optimizing the server's memory usage. Learn ways to improve query performance and optimize the PostgreSQL server. Explore a wide range of high availability and replication mechanisms to build robust, highly available, scalable, and fault-tolerant PostgreSQL databases. Who This Book Is For: If you are a developer or administrator with limited PostgreSQL

knowledge and want to develop your skills with this great open source database, then this book is ideal for you. Learning how to enhance the database performance is always an exciting topic to everyone, and this book will show you enough ways to enhance the database performance. What You Will Learn Build replication strategies for homogeneous and heterogeneous databases Test and build a powerful machine with multiple benchmarking techniques Get to know a few SQL injection techniques Find out how to manage the replication using multiple tools Benchmark the database server using multiple strategies Work with the query processing algorithms and their internal behaviors Build a proper plan to upgrade or migrate to PostgreSQL from other databases See

the essential database load balancing techniques and the various partitioning approaches PostgreSQL provides Learn memory optimization techniques and database server configurations In Detail PostgreSQL is one of the most powerful and easy to use database management systems. It has strong support from the community and is being actively developed with a new release every year. PostgreSQL supports the most advanced features included in SQL standards. It also provides NoSQL capabilities and very rich data types and extensions. All of this makes PostgreSQL a very attractive solution in software systems. If you run a database, you want it to perform well and you want to be able to secure it. As the world's most advanced open source database,

PostgreSQL has unique built-in ways to achieve these goals. This book will show you a multitude of ways to enhance your database's performance and give you insights into measuring and optimizing a PostgreSQL database to achieve better performance. This book is your one-stop guide to elevate your PostgreSQL knowledge to the next level. First, you'll get familiarized with essential developer/administrator concepts such as load balancing, connection pooling, and distributing connections to multiple nodes. Next, you will explore memory optimization techniques before exploring the security controls offered by PostgreSQL. Then, you will move on to the essential database/server monitoring and replication strategies with PostgreSQL. Finally, you will learn about

query processing algorithms. Style and approach This comprehensive guide is packed with practical administration tasks. Each topic is explained using examples and a step-by-step approach. *PostgreSQL: Up and Running* Packt Publishing Ltd

If you are a database administrator looking for solutions to common PostgreSQL problems, this is the book for you. The book is suitable for people with intermediate and professional expertise. *PostgreSQL Query Optimization* Apress PostgreSQL is increasingly utilized in all kind of applications, starting from desktop to web and mobile applications. In this book, you will find the best ways to design, monitor and maintain your PostgreSQL solution, with suggestions and tips for high performance,

troubleshooting and high availability.

PostgreSQL 13 Cookbook Packt Publishing Ltd

Get to grips with building reliable, scalable, and maintainable database solutions for enterprises and production databases Key FeaturesImplement PostgreSQL 13 features to perform end-to-end modern database managementDesign, manage, and build enterprise database solutions using a unique recipe-based approachSolve common and not-so-common challenges faced while working to achieve optimal database performanceBook Description PostgreSQL has become the most advanced open source database on the market. This book follows a step-by-step approach, guiding you effectively in deploying PostgreSQL in production

environments. The book starts with an introduction to PostgreSQL and its architecture. You'll cover common and not-so-common challenges faced while designing and managing the database. Next, the book focuses on backup and recovery strategies to ensure your database is steady and achieves optimal performance. Throughout the book, you'll address key challenges such as maintaining reliability, data integrity, a fault-tolerant environment, a robust feature set, extensibility, consistency, and authentication. Moving ahead, you'll learn how to manage a PostgreSQL cluster and explore replication features for high availability. Later chapters will assist you in building a secure PostgreSQL server, along with covering recipes for encrypting data in motion

and data at rest. Finally, you'll not only discover how to tune your database for optimal performance but also understand ways to monitor and manage maintenance activities, before learning how to perform PostgreSQL upgrades during downtime. By the end of this book, you'll be well-versed with the essential PostgreSQL 13 features to build enterprise relational databases. What you will learn

Understand logical and physical backups in PostgreSQL

Demonstrate the different types of replication methods possible with PostgreSQL today

Set up a high availability cluster that provides seamless automatic failover for

applications

Secure a PostgreSQL encryption through authentication, authorization, and auditing

Analyze the live and historic activity of a PostgreSQL server

Understand how to monitor critical services in PostgreSQL 13

Manage maintenance activities and performance tuning of a PostgreSQL cluster

Who this book is for This PostgreSQL book is for database architects, database developers and administrators, or anyone who wants to become well-versed with PostgreSQL 13 features to plan, manage, and design efficient database solutions. Prior experience with the PostgreSQL database and SQL language is expected.