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PostgreSQL
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PostgreSQL Essential Reference
PostgreSQL 14 Administration Cookbook
PostgreSQL Administration Cookbook - Third Edition

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Administration*

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MATHEWS MIKAYLA

PostgreSQL 16 Administration Cookbook
Packt Publishing Ltd

Create, develop and manage relational databases in real world applications using PostgreSQL About This Book Learn about the PostgreSQL development life cycle including its testing and refactoring Build productive database solutions and use them in Java applications A comprehensive guide to learn about SQL, PostgreSQL procedural language and PL/pgSQL Who This Book

Is For If you are a student, database developer or an administrator, interested in developing and maintaining a PostgreSQL database, then this book is for you. No knowledge of database programming or administration is necessary. What You Will Learn Learn concepts of data modelling and relation algebra Install and set up PostgreSQL database server and client software Implement data structures in PostgreSQL Manipulate data in the database using SQL Implement data processing logic in the database with stored functions, triggers and views Test database solutions and assess the performance

Integrate database with Java applications Detailed knowledge of the main PostgreSQL building objects, most used extensions Practice database development life cycle including analysis, modelling, (documentation), testing, bug fixes and refactoring 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. Also it provides NoSQL capabilities, and very rich data types and extensions. All that makes PostgreSQL a very attractive solution in various kinds of software systems. The book starts with the introduction of relational

databases with PostgreSQL. It then moves on to covering data definition language (DDL) with emphasis on PostgreSQL and common DDL commands supported by ANSI SQL. You will then learn the data manipulation language (DML), and advanced topics like locking and multi version concurrency control (MVCC). This will give you a very robust background to tune and troubleshoot your application. The book then covers the implementation of data models in the database such as creating tables, setting up integrity constraints, building indexes, defining views and other schema objects. Next, it will give you an overview about the NoSQL capabilities of PostgreSQL along with Hstore, XML, Json and arrays. Finally by the end of the

book, you'll learn to use the JDBC driver and manipulate data objects in the Hibernate framework. Style and approach An easy-to-follow guide to learn programming build applications with PostgreSQL, and manage a PostgreSQL database instance.

Django for Professionals Packt Publishing Ltd

Administer, monitor, and replicate your PostgreSQL 14 database for efficient database management and maintenance
Key Features: Troubleshoot and tackle any administration and management problems in PostgreSQL 14 Find expert techniques for monitoring, fine-tuning, and securing your database Adopt efficient replication for high availability with PostgreSQL 14
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 14 allows you to scale up your PostgreSQL infrastructure. With this book, you'll take a step-by-step, recipe-based approach to effective PostgreSQL administration. This book will get you up and running with all the latest features of PostgreSQL 14 while helping you explore the entire database ecosystem. You'll learn how to tackle a variety of problems and pain points you may face as a database administrator such as creating tables, managing views, improving performance, and securing your database. As you make progress, the book will draw attention to important topics such as monitoring roles, validating backups, regular

maintenance, and recovery of your PostgreSQL 14 database. This will help you understand roles, ensuring high availability, concurrency, and replication. Along with updated recipes, this book touches upon important areas like using generated columns, TOAST compression, PostgreSQL on the cloud, and much more. By the end of this PostgreSQL book, you'll have gained the knowledge you need to manage your PostgreSQL 14 database efficiently, both in the cloud and on-premise. What You Will Learn: Plan, manage, and maintain PostgreSQL databases in production Work with the newly introduced features of PostgreSQL 14 Use pgAdmin or OmniDB to perform database administrator (DBA) tasks Use psql to write accurate and repeatable scripts Understand how to tackle real-

world data issues with the help of examples Select and implement robust backup and recovery techniques in PostgreSQL 14 Deploy best practices for planning and designing live databases Who this book is for: This Postgres 14 book is for database administrators, data architects, database developers, and anyone with an interest in planning and running live production databases using PostgreSQL 14. Those looking for hands-on solutions to any problem associated with PostgreSQL 14 administration will also find this book useful. Some experience with handling PostgreSQL databases will help you to make the most out of this book, however, it is a useful resource even if you are just beginning your Postgres journey. *PostgreSQL 10 Administration Cookbook*

Packt Publishing Ltd

Starts with the basics of Red Hat, the leading Linux distribution in the U.S., such as network planning and Red Hat installation and configuration Offers a close look at the new Red Hat Enterprise Linux 4 and Fedora Core 4 releases New chapters cover configuring a database server, creating a VNC server, monitoring performance, providing Web services, exploring SELinux security basics, and exploring desktops Demonstrates how to maximize the use of Red Hat Network, upgrade and customize the kernel, install and upgrade software packages, and back up and restore the file system The four CDs contain the full Fedora Core 4 distribution

Developing Modern Database

Applications with PostgreSQL

"O'Reilly Media, Inc."

Get up to speed with core PostgreSQL tasks such as database administration, application development, database performance monitoring, and database testing Key FeaturesBuild real-world enterprise database management systems using Postgres 12 featuresExplore the development, administrative and security aspects of PostgreSQL 12Implement best practices from industry experts to build powerful database applicationsBook Description PostgreSQL is an open-source object-relational database management system (DBMS) that provides enterprise-level services, including high performance and scalability. This book is a collection of unique projects providing you with a

wealth of information relating to administering, monitoring, and testing PostgreSQL. The focus of each project is on both the development and the administrative aspects of PostgreSQL. Starting by exploring development aspects such as database design and its implementation, you'll then cover PostgreSQL administration by understanding PostgreSQL architecture, PostgreSQL performance, and high-availability clusters. Various PostgreSQL projects are explained through current technologies such as DevOps and cloud platforms using programming languages like Python and Node.js. Later, you'll get to grips with the well-known database API tool, PostgREST, before learning how to use popular PostgreSQL database testing frameworks. The book is also

packed with essential tips and tricks and common patterns for working seamlessly in a production environment. All the chapters will be explained with the help of a real-world case study on a small banking application for managing ATM locations in a city. By the end of this DBMS book, you'll be proficient in building reliable database solutions as per your organization's needs. What you will learn

- Set up high availability PostgreSQL database clusters in the same containment, a cross-containment, and on the cloud
- Monitor the performance of a PostgreSQL database
- Create automated unit tests and implement test-driven development for a PostgreSQL database
- Develop PostgreSQL apps on cloud platforms using DevOps with Python and

Node.js Write robust APIs for PostgreSQL databases using Python programming, Node.js, and PostgREST Create a geospatial database using PostGIS and PostgreSQL Implement automatic configuration by Ansible and Terraform for Postgres Who this book is for This PostgreSQL book is for database developers, database administrators, data architects, or anyone who wants to build end-to-end database projects using Postgres. This book will also appeal to software engineers, IT technicians, computer science researchers, and university students who are interested in database development and administration. Some familiarity with PostgreSQL and Linux is required to grasp the concepts covered in the book effectively.

PostgreSQL 15 Cookbook Apress
"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).

Developing Modern Database Applications with PostgreSQL Packt Publishing Ltd

A practical guide that will help you learn and leverage PostgreSQL's core features
KEY FEATURES ● Acquire in-depth knowledge of PostgreSQL's key capabilities and gain a comprehensive understanding of its inner workings. ●

Discover the art of extending PostgreSQL's core features and effectively troubleshooting any challenges that may arise. ● Explore the vibrant community and open-source ecosystem that forms the foundation of PostgreSQL's development and innovation. DESCRIPTION PostgreSQL is a powerful open-source relational database management system (RDBMS) that is widely used in the industry. If you are seeking to acquire knowledge about PostgreSQL, this book is for you. This comprehensive book provides you with a solid foundation in working with PostgreSQL, a popular open-source database management system. It covers a broad spectrum of topics, allowing you to successfully install and configure PostgreSQL across various platforms and

methods. By delving into the internal components that constitute a PostgreSQL service and their interplay, you will gain a deep understanding of how these elements collaborate to deliver a robust and dependable solution. From comprehending the process model and shared memory to mastering query execution and optimization, you will acquire comprehensive knowledge of PostgreSQL's internal workings. Furthermore, the book explores essential tasks performed by a database administrator (DBA), including backup and restore operations, security measures, performance tuning, and troubleshooting techniques. Lastly, it explores widely used extensions and compatible tools that can enhance the

functionality of PostgreSQL. Upon completing this book, you will have developed a comprehensive understanding of the internal components that comprise a PostgreSQL service and their collaborative dynamics, resulting in a reliable and robust solution. **WHAT YOU WILL LEARN**

- Gain proficiency in installing and preparing PostgreSQL for various methods and platforms.
- Develop a solid understanding of the internal components of a PostgreSQL service and their collaborative dynamics to deliver a comprehensive solution.
- Acquire knowledge about essential tasks performed by PostgreSQL DBAs, including backup/restore operations, security measures, tuning, and troubleshooting.
- Explore popular

extensions and compatible tools that can expand and enhance the capabilities of PostgreSQL.

- Discover the PostgreSQL Community and learn how to actively contribute to the project's development and growth.

WHO THIS BOOK IS FOR This book is highly recommended for Entry Level Database Administrators, as it provides a suitable starting point for their journey. It assumes some prior knowledge of Database Management Systems (DBMS) to ensure a smooth learning experience. Additionally, senior or experienced developers will find value in this book, particularly in gaining insights into the latest features incorporated in the most recent version of the DB, enhancing their understanding and proficiency in its use.

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Opensource Database - PostgreSQL 2. Getting PostgreSQL to work 3. Modern Options to get PostgreSQL 4. Global Objects in PostgreSQL 5. Architecture of PostgreSQL 6. PostgreSQL Internals 7. Backup and Restore in PostgreSQL 8. Replicating Data 9. Security and Access Control 10. Most used Extensions/Tools 11. Basic Database Objects 12. Advance Database Objects 13. Performance Tuning 14. Troubleshooting 15. Contributing to PostgreSQL Community

Learning SQL Still River Press
 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

A Curious Moon Sams Publishing

If you're a PostgreSQL database administrator looking for a comprehensive guide to managing your databases, look no further than the

PostgreSQL 15 Cookbook. With 100 ready solutions to common database management challenges, this book provides a complete guide to administering and troubleshooting your databases using latest PostgreSQL 15. Starting with cloud provisioning and migration, the book covers all aspects of database administration, including replication, transaction logs, partitioning, sharding, auditing, realtime monitoring, backup, recovery, and error debugging. Each solution is presented in a clear, easy-to-follow format, using a real database called 'adventureworks' to provide an on-job practicing experience. Throughout the book, you'll learn how to use tools like pglogical, pgloader, WAL, repmgr, Patroni, HAProxy, PgBouncer, pgBackRest, pgAudit and Prometheus,

gaining valuable experience and expertise in managing your databases. With its focus on practical solutions and real-world scenarios, the PostgreSQL 15 Cookbook is an essential resource for any PostgreSQL database administrator. Whether you're just starting out or you're a seasoned pro, this book has everything you need to keep your databases running smoothly and efficiently. Key Learnings Streamline your PostgreSQL databases with cloud provisioning and migration techniques Optimize performance and scalability through effective replication, partitioning, and sharding Safeguard your databases with robust auditing, backup, and recovery strategies Monitor your databases in real-time with powerful tools like pgAudit, Prometheus,

and Patroni Troubleshoot errors and debug your databases with expert techniques and best practices Boost your productivity and efficiency with advanced tools like pglogical, pgloader, and HAProxy. Table of Content Getting PostgreSQL 15 Ready Performing Basic PostgreSQL Operations PostgreSQL Cloud Provisioning Database Migration to Cloud and PostgreSQL WAL, AutoVacuum & ArchiveLog Partitioning and Sharding Strategies Solving Replication, Scalability & High Availability Blob, JSON Query, CAST Operator & Connections Authentication, Audit & Encryption Implementing Database Backup Strategies Exploring Database Recovey & Restoration Methods Prometheus & Continuous Monitoring Debugging PostgreSQL Audience This book is ideal

for database administrators, developers, and IT professionals who are responsible for managing and troubleshooting PostgreSQL databases. It is also suitable for beginners looking to learn more about PostgreSQL administration and best practices.

PostgreSQL 8.4 Official

Documentation - Volume II. Server Administration 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.

PostgreSQL-Administration John Wiley & Sons

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.

PostgreSQL 13 Cookbook 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* Addison-Wesley Professional 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.

PostgreSQL for Data Architects Packt Publishing Ltd

If you are a database administrator who needs to get to grips with PostgreSQL quickly and efficiently, then this book is

for you. This book will also be highly beneficial if you are a project leader or a developer who is interested in knowing more about database systems or bottleneck detection, as it will enable you to work more closely and cooperatively with your administrators.

PostgreSQL Developer's Handbook O'Reilly Media

Get up to speed with core PostgreSQL tasks such as database administration, application development, database performance monitoring, and database testing Key Features: Build real-world enterprise database management systems using Postgres 12 features Explore the development, administrative and security aspects of PostgreSQL 12 Implement best practices from industry experts to build powerful database

applications Book Description: PostgreSQL is an open-source object-relational database management system (DBMS) that provides enterprise-level services, including high performance and scalability. This book is a collection of unique projects providing you with a wealth of information relating to administering, monitoring, and testing PostgreSQL. The focus of each project is on both the development and the administrative aspects of PostgreSQL. Starting by exploring development aspects such as database design and its implementation, you'll then cover PostgreSQL administration by understanding PostgreSQL architecture, PostgreSQL performance, and high-availability clusters. Various PostgreSQL projects are explained through current

technologies such as DevOps and cloud platforms using programming languages like Python and Node.js. Later, you'll get to grips with the well-known database API tool, PostgREST, before learning how to use popular PostgreSQL database testing frameworks. The book is also packed with essential tips and tricks and common patterns for working seamlessly in a production environment. All the chapters will be explained with the help of a real-world case study on a small banking application for managing ATM locations in a city. By the end of this DBMS book, you'll be proficient in building reliable database solutions as per your organization's needs. What You Will Learn: Set up high availability PostgreSQL database clusters in the same containment, a cross-containment,

and on the cloud Monitor the performance of a PostgreSQL database Create automated unit tests and implement test-driven development for a PostgreSQL database Develop PostgreSQL apps on cloud platforms using DevOps with Python and Node.js Write robust APIs for PostgreSQL databases using Python programming, Node.js, and PostgREST Create a geospatial database using PostGIS and PostgreSQL Implement automatic configuration by Ansible and Terraform for Postgres Who this book is for: This PostgreSQL book is for database developers, database administrators, data architects, or anyone who wants to build end-to-end database projects using Postgres. This book will also appeal to software engineers, IT technicians,

computer science researchers, and university students who are interested in database development and administration. Some familiarity with PostgreSQL and Linux is required to grasp the concepts covered in the book effectively.

PostgreSQL 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 13 Packt Publishing Ltd

Master PostgreSQL 12 features such as advanced indexing, high availability,

monitoring, and much more to efficiently manage and maintain your database. Key Features: Grasp advanced PostgreSQL 12 concepts with real-world examples and sample datasets. Explore query parallelism, data replication, database administration, and more. Extend PostgreSQL functionalities to suit your organization's needs with minimal effort. Book Description: Thanks to its reliability, robustness, and high performance, PostgreSQL has become the most advanced open source database on the market. This third edition of *Mastering PostgreSQL* helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSQL, which enables database analysts to design both physical and technical aspects of system

architecture with ease. Starting with an introduction to the newly released features in PostgreSQL 12, this book will help you build efficient and fault-tolerant PostgreSQL applications. You'll thoroughly examine the advanced features of PostgreSQL, including logical replication, database clusters, performance tuning, monitoring, and user management. You'll also work with the PostgreSQL optimizer, configure PostgreSQL for high speed, and understand how to move from Oracle to PostgreSQL. As you progress through the chapters, you'll cover transactions, locking, indexes, and how to optimize queries for improved performance. Additionally, you'll learn how to manage network security and explore backups and replications while understanding

useful PostgreSQL extensions to help you in optimizing the performance of large databases. By the end of this PostgreSQL book, you'll be able to get the most out of your database by implementing advanced administrative tasks effortlessly. What you will learn

Understand the advanced SQL functions in PostgreSQL 12

Use indexing features in PostgreSQL to fine-tune the performance of queries

Work with stored procedures and manage backup and recovery

Master replication and failover techniques to reduce data loss

Replicate PostgreSQL database systems to create backups and to scale your database

Manage and improve the security of your server to protect your data

Troubleshoot your PostgreSQL instance for solutions to common and

not-so-common problems

Who this book is for

This book is for PostgreSQL developers and administrators and database professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 12. Prior exposure to PostgreSQL as well as familiarity with the basics of database administration is expected.

PostgreSQL Administration Essentials

Packt Publishing Ltd

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.

PostgreSQL: Up and Running Fultus Corporation

Explore expert techniques such as advanced indexing and high availability to build scalable, reliable, and fault-tolerant database applications using PostgreSQL 13 Key Features Master advanced PostgreSQL 13 concepts with the help of real-world datasets and examples Leverage PostgreSQL's indexing features to fine-tune the performance of your queries Extend PostgreSQL's functionalities to suit your organization's needs with minimal effort Book Description Thanks to its reliability, robustness, and high

performance, PostgreSQL has become one of the most advanced open source databases on the market. This updated fourth edition will help you understand PostgreSQL administration and how to build dynamic database solutions for enterprise apps with the latest release of PostgreSQL, including designing both physical and technical aspects of the system architecture with ease. Starting with an introduction to the new features in PostgreSQL 13, this book will guide you in building efficient and fault-tolerant PostgreSQL apps. You'll explore advanced PostgreSQL features, such as logical replication, database clusters, performance tuning, advanced indexing, monitoring, and user management, to manage and maintain your database. You'll then work with the PostgreSQL

optimizer, configure PostgreSQL for high speed, and move from Oracle to PostgreSQL. The book also covers transactions, locking, and indexes, and shows you how to improve performance with query optimization. You'll also focus on how to manage network security and work with backups and replication while exploring useful PostgreSQL extensions that optimize the performance of large databases. By the end of this PostgreSQL book, you'll be able to get the most out of your database by executing advanced administrative tasks. What you will learnGet well versed with advanced SQL functions in PostgreSQL 13Get to grips with administrative tasks such as log file management and monitoringWork with stored procedures and manage backup and recoveryEmploy replication and

failover techniques to reduce data loss Perform database migration from Oracle to PostgreSQL with ease Replicate PostgreSQL database systems to create backups and scale your database Manage and improve server security to protect your data Troubleshoot your PostgreSQL instance to find solutions to common and not-so-common problems Who this book is for This database administration book is for PostgreSQL developers and database administrators and professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 13. Prior experience in PostgreSQL and familiarity with the basics of database administration will assist with understanding key concepts covered in the book.

Mastering PostgreSQL 12 Packt Publishing Ltd

Arguably the most capable of all the open source databases, PostgreSQL is an object-relational database management system first developed in 1977 by the University of California at Berkeley. In spite of its long history, this robust database suffers from a lack of easy-to-use documentation. Practical PostgreSQL fills that void with a fast-paced guide to installation, configuration, and usage. This comprehensive new volume shows you how to compile PostgreSQL from source, create a database, and configure PostgreSQL to accept client-server connections. It also covers the many advanced features, such as transactions, versioning, replication, and referential integrity that enable developers and

DBAs to use PostgreSQL for serious business applications. The thorough introduction to PostgreSQL's PL/pgSQL programming language explains how you can use this very useful but under-documented feature to develop stored procedures and triggers. The book includes a complete command reference, and database administrators will appreciate the chapters on user management, database maintenance, and backup & recovery. With *Practical PostgreSQL*, you will discover quickly why this open source database is such a great open source alternative to proprietary products from Oracle, IBM, and Microsoft.

PostgreSQL Configuration Packt

Publishing Ltd

Over 150 recipes to help you administer

your PostgreSQL database more efficiently About This Book Get to grips with the capabilities of PostgreSQL 9.6 to administer your database more efficiently Monitor, tune, secure and protect your database A step-by-step, recipe-based guide to help you tackle any problem in PostgreSQL administration with ease Who This Book Is For This book is for system administrators, database administrators, data architects, developers, and anyone with an interest in planning for, or running, live production databases. This book is most suited to those who have some technical experience. What You Will Learn Implement PostgreSQL features for performance and reliability Harness the power of the latest PostgreSQL 9.6 features Manage open

source PostgreSQL versions 9.5 and 9.6 on various platforms Discover advanced technical tips for experienced users Explore best practices for planning and designing live databases Select and implement robust backup and recovery techniques Explore concise and clear guidance on replication and high availability See the latest details on Logical Replication and Bi-Directional Replication In Detail PostgreSQL is a powerful open-source database management system; now recognized as the expert's choice for a wide range of applications, it has an enviable reputation for performance and stability. PostgreSQL provides an integrated feature set comprising relational database features, object-relational, text search, Geographical Info Systems,

analytical tools for big data and JSON/XML document management. Starting with short and simple recipes, you will soon dive into core features, such as configuration, server control, tables, and data. You will tackle a variety of problems a database administrator usually encounters, from creating tables to managing views, from improving performance to securing your database, and from using monitoring tools to using storage engines. Recipes based on important topics such as high availability, concurrency, replication, backup and recovery, as well as diagnostics and troubleshooting are also given special importance. By the end of this book, you will have all the knowledge you need to run, manage, and maintain PostgreSQL efficiently.

Style and approach This book takes a step-by-step, recipe-based approach, where each recipe focuses on a particular challenge faced by a PostgreSQL administrator while

administering his/her database. Explained in a very easy to follow manner, every task is supported with best practices, tips and tricks.

Best Sellers - Books :

- [Stop Overthinking: 23 Techniques To Relieve Stress, Stop Negative Spirals, Declutter Your Mind, And Focus On The Present \(the](#)
- [Twisted Love \(twisted, 1\)](#)
- [World Of Eric Carle, Around The Farm 30-button Animal Sound Book - Great For First Words - Pi Kids](#)
- [Love You Forever By Robert Munsch](#)
- [What To Expect When You're Expecting](#)
- [A Court Of Thorns And Roses \(a Court Of Thorns And Roses, 1\) By Sarah J. Maas](#)
- [The Untethered Soul: The Journey Beyond Yourself](#)
- [Haunting Adeline \(cat And Mouse Duet\)](#)
- [Verity By Colleen Hoover](#)
- [It's Not Summer Without You](#)