Databases With Postgresql

A Practical Guide to the Advanced Open Source Database
Beginning Databases with PostgreSQL
Building Industrial-Strength Web Apps in Record Time
PostgreSQL Developer's Handbook
Basics, Exploring the Server, Database Administration
Troubleshooting PostgreSQL
A Beginner's Guide to Building and Managing High-Performance Database Solutions Using PostgreSQL 12
Practical SQL
PostgreSQL: Up and Running
PostgreSQL 9 Administration Cookbook Lite: Configuration, Monitoring and Maintenance
From Novice to Professional
Beginning Databases with PostgreSQL
PostgreSQL: Up and Running
A beginner's guide to building high-performance PostgreSQL database solutions, 3rd Edition
PostgreSQL for Data Architects
The Definitive Guide to PostgreSQL
Database Series
Spatial Database for GPS Wildlife Tracking Data
Learn PostgreSQL
Build and manage high-performance database

solutions using PostgreSQL 12 and 13
PostgreSQL 13 Cookbook
A Beginner's Guide to Storytelling with Data
Advanced Rails
A Practical Introduction to the Advanced Open Source Database
PostgreSQL Development Essentials
Learning PostgreSQL
PostgreSQL Configuration
From Novice to Professional
PostgreSQL High Availability Cookbook
A Practical Guide to Creating a Data Management System with PostgreSQL/PostGIS and R
PostgreSQL
A beginner's guide to building high-performance PostgreSQL database solutions
Mastering PostgreSQL 12
Developing Modern Database Applications with PostgreSQL
PostgreSQL: Up and Running
Introduction and Concepts
PostgreSQL 11 Administration Cookbook
PostgreSQL 10 Administration Cookbook
PostgreSQL 8 for Windows
Learning PostgreSQL 11

MELTON PEARSON

A Practical Guide to the Advanced Open Source Database

Packt Publishing Ltd

Thinking of migrating to PostgreSQL? This clear, fast-paced

introduction helps you understand and use this open source database system. Not only will you learn about the enterprise class features in versions 9.5 to 10, you'll also discover that PostgeSQL is more than a database system—it's an impressive application platform as well. With examples throughout, this book shows you how to achieve tasks that are difficult or impossible in other databases. This third edition covers new features, such as ANSI-SQL constructs found only in proprietary databases until now: foreign data wrapper (FDW) enhancements; new full text functions and operator syntax introduced in version 9.6; XML constructs new in version 10; query parallelization features introduced in 9.6 and enhanced in 10; built-in logical replication introduced in Version 10.e. If you're a current PostgreSQL user, you'll pick up gems you may have missed before. Learn basic administration tasks such as role management, database creation, backup, and restore Apply the psql command-line utility and the pgAdmin graphical administration tool Explore PostgreSQL tables, constraints, and indexes Learn powerful SQL constructs not generally found in other databases Use several different languages to write database functions Tune your queries to run as fast as your

hardware will allow Query external and variegated data sources with foreign data wrappers Learn how to use built-in replication to replicate data

Beginning Databases with PostgreSQL Packt Publishing Ltd

This book will get you up and running with building efficient relational database solutions right from scratch with the newest features of PostgreSQL 11. You will learn the end-to-end working of relational databases and how to work with database structures. You will also be able to write essential SQL statements, perform data manipulation and ...

Building Industrial-Strength Web Apps in Record Time Packt Publishing Ltd

Thinking of migrating to PostgreSQL? This clear, fast-paced introduction helps you understand and use this open source database system. Not only will you learn about the enterprise class features in versions 9.2, 9.3, and 9.4, you'll also discover that PostgeSQL is more than a database system—it's also an impressive application platform. With examples throughout, this book shows you how to achieve tasks that are difficult or impossible in other databases. This second edition covers LATERAL queries, augmented JSON support, materialized views, and other key topics. If you're a current PostgreSQL user, you'll

pick up gems you may have missed before. Learn basic administration tasks such as role management, database creation, backup, and restore Apply the psql command-line utility and the pgAdmin graphical administration tool Explore PostgreSQL tables, constraints, and indexes Learn powerful SQL constructs not generally found in other databases Use several different languages to write database functions Tune your queries to run as fast as your hardware will allow Query external and variegated data sources with foreign data wrappers Learn how use built-in replication filters to replicate data

PostgreSQL Developer's Handbook
Still River Press
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.

Basics, Exploring the Server, Database Administration 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 PostegreSQL. 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.

Troubleshooting

PostgreSQL "O'Reilly Media, Inc."
This book will get you up and running with the working of relational databases, data modeling, data manipulation, and more. You will learn to build efficient relational database solutions from scratch using the latest features of PostgreSQL 12 and 13. You'll also be able to identify bottlenecks to enhance the performance of database applications.
A Beginner's Guide to Building and Managing High-Performance Database Solutions Using PostgreSQL 12
Packt Publishing Ltd
The easiest way to set up a PostgreSQL database server on Windows Get up-and-running on PostgreSQL quickly using this hands-on guide. Filled with real-world examples, PostgreSQL 8 for Windows offers you practical, step-by-step details on installing, configuring, and using PostgreSQL 8--the full-featured, open-source database management system--on Windows platforms. You'll learn to administer, secure, and tune your database and use SQL. You'll also discover how to interface Microsoft Access, Microsoft .NET, Visual C++, and Java with the PostgreSQL database. Install and configure PostgreSQL 8 on Windows Customize your system using the configuration files Work with the utilities Administer your database from the pgAdmin III graphical interface Use the psql command line program to manually execute

SQL commands Take advantage of built-in functions or create your own stored procedures and triggers Implement tested security measures Maintain optimal database performance Access a PostgreSQL database from a Microsoft Access application and migrate Access databases to PostgreSQL Create .NET, Visual C++, and Java applications that interface with your PostgreSQL server

Practical SQL No Starch Press

Master over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL About This Book Create a PostgreSQL cluster that stays online even when disaster strikes Avoid costly downtime and data loss that can ruin your business Updated to include the newest features introduced in PostgreSQL 9.6 with hands-on industry-driven recipes Who This Book Is For If you are a PostgreSQL DBA working on Linux systems who want a database that never gives up, this book is for you. If you've ever experienced a database outage, restored from a backup, spent hours trying to repair a malfunctioning cluster, or simply want to guarantee system stability, this book is definitely for you. What You Will Learn Protect your data with PostgreSQL replication and management tools such as Slony, Bucardo, pglogical, and WAL-E Hardware

planning to help your database run efficiently Prepare for catastrophes and prevent them before they happen Reduce database resource contention with connection pooling using pgpool and PgBouncer Automate monitoring and alerts to visualize cluster activity using Nagios and collected Construct a robust software stack that can detect and fix outages Learn simple PostgreSQL High Availability with Patroni, or dive into the full power of Pacemaker. In Detail Databases are nothing without the data they store. In the event of a failure - catastrophic or otherwise - immediate recovery is essential. By carefully combining multiple servers, it's even possible to hide the fact a failure occurred at all. From hardware selection to software stacks and horizontal scalability, this book will help you build a versatile PostgreSQL cluster that will survive crashes, resist data corruption, and grow smoothly with customer demand. It all begins with hardware selection for the skeleton of an efficient PostgreSQL database cluster. Then it's on to preventing downtime as well as troubleshooting some real life problems that administrators commonly face. Next, we add database monitoring to the stack, using collectd, Nagios, and Graphite. And no stack is complete without replication using multiple internal and

external tools, including the newly released pglogical extension. Pacemaker or Raft consensus tools are the final piece to grant the cluster the ability to heal itself. We even round off by tackling the complex problem of data scalability. This book exploits many new features introduced in PostgreSQL 9.6 to make the database more efficient and adaptive, and most importantly, keep it running. Style and approach This book contains practical recipes that will help the reader solve real world problems related to high availability in PostgreSQL. Every recipe is explained in detail, with relevant explanations, tips and tricks provided for quicker and easier understanding. PostgreSQL: Up and Running CreateSpace Updated to include the new features introduced in PostgreSQL 13, this book shows you how to build better PostgreSQL applications and administer your PostgreSQL database efficiently. You'll master the advanced features of PostgreSQL and develop the skills you need to build secure and highly available database solutions. *PostgreSQL 9 Administration Cookbook Lite: Configuration, Monitoring and Maintenance* Apress This book includes the newly introduced features in PostgreSQL 11, and shows you how to build better

PostgreSQL applications, and administer your PostgreSQL database efficiently. You will master the advanced features of PostgreSQL and acquire the necessary skills to build efficient database solutions.
From Novice to Professional Apress
Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications. About This Book Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open source databases in the world Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases Discover tips on implementing efficient database solutions with PostgreSQL 10 Who This Book Is For If you're interested in learning more about PostgreSQL - one of the most popular relational databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book. What You Will Learn Understand the fundamentals of relational databases, relational algebra, and data modeling Install a PostgreSQL cluster, create a database, and implement your data model Create tables

and views, define indexes, and implement triggers, stored procedures, and other schema objects Use the Structured Query Language (SQL) to manipulate data in the database Implement business logic on the server side with triggers and stored procedures using PL/pgSQL Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others Develop OLAP database solutions using the most recent features of PostgreSQL 10 Connect your Python applications to a PostgreSQL database and work with the data efficiently Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applications In Detail PostgreSQL is one of the most popular open source databases in the world, and supports the most advanced features included in SQL standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch. We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on

PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects. Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects. By the end of this book, you'll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions. Style and approach This book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

Beginning Databases with PostgreSQL

Addison-Wesley Professional

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

This updated and expanded second edition of the Beginning Databases with PostgreSQL: From Novice to Professional provides a user-friendly introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

A beginner's guide to building high-performance PostgreSQL database solutions, 3rd Edition Springer Science & Business Media

Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications.About This Book* Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open source databases in the world* Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases* Discover tips on implementing efficient database solutions with PostgreSQL 10Who This Book Is ForIf you're interested in learning more about PostgreSQL - one of the most popular relational

databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book.What You Will Learn* Understand the fundamentals of relational databases, relational algebra, and data modeling* Install a PostgreSQL cluster, create a database, and implement your data model* Create tables and views, define indexes, and implement triggers, stored procedures, and other schema objects* Use the Structured Query Language (SQL) to manipulate data in the database* Implement business logic on the server side with triggers and stored procedures using PL/pgSQL* Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others* Develop OLAP database solutions using the most recent features of PostgreSQL 10* Connect your Python applications to a PostgreSQL database and work with the data efficiently* Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applicationsIn DetailPostgreSQL is one of the most popular open source databases in the world, and supports the most advanced features included in SQL

standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch.We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects.Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects.By the end of this book, you'll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions.Style and approachThis book is a comprehensive

beginner level tutorial on PostgreSQL and introduces the features of the newest version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

PostgreSQL for Data Architects Packt Publishing Ltd

"PostgreSQL Developer's Handbook" provides a complete overview of the PostgreSQL database server and extensive coverage of its core features, including object orientation, PL/SQL, and the most important programming interfaces. The authors introduce the reader to the language and syntax of PostgreSQL and then move quickly into sophisticated programming topics.

The Definitive Guide to PostgreSQL

"O'Reilly Media, Inc."

If you are a database developer who wants to learn how to design and implement databases for application development using PostgreSQL, this is the book for you. Existing knowledge of basic database concepts and some programming experience is required

Database Series

Packt Publishing Ltd

Follow along with PostgreSQL expert Victor Deras and build powerful PostgreSQL databases after watching the 12 topics within this series: Introducing PostgreSQL . This first topic in the PostgreSQL video

series introduces you to the world of relational databases and PostgreSQL. Follow along with Victor in this hands-on session to download, install, setup, and configure PostgreSQL, both the Graphical User Interface (GUI) and the console. Also get PGAdmin and the command line tool psql up and running. Creating and Modifying Tables in PostgreSQL . This second topic in the PostgreSQL video series focuses on PostgreSQL tables. Learn about tables, rows, columns, and referential integrity. Follow along with Victor and practice creating and modifying tables in PostgreSQL. Assigning Data Types in PostgreSQL . This third topic in the PostgreSQL video series focuses on PostgreSQL data types. Follow along with Victor and practice creating and modifying numeric, string, Boolean, Enumerated, Date, and Time data types in PostgreSQL. Numeric data types include Smallint, Integer, Bigint, Decimal, Numeric, Real, Double precision, Smallserial, Serial, and Bigserial. String data types include Character, Varchar, and Text. Creating Domains in PostgreSQL . This fourth topic in the PostgreSQL video series focuses on PostgreSQL domains. Follow along with Victor and practice creating and using domains to expand the set of data types in PostgreSQL. Also create constraints during this session.

Inserting Data in PostgreSQL . This fifth topic in the PostgreSQL video series focuses on inserting data in PostgreSQL. Follow along with Victor and practice inserting data into tables in PostgreSQL. Also apply PostgreSQL constraints. Querying Data in PostgreSQL . This sixth topic in the PostgreSQL video series focuses on querying data from tables in PostgreSQL. Follow along with Victor and practice querying data in PostgreSQL using the SELECT statement. Apply both queries and subqueries in this session. Joining Data in PostgreSQL . This seventh topic in the PostgreSQL video series focuses on joins across tables in PostgreSQL. Follow along with Victor and practice creating inner joins, left joins, right joins, and full outer joins in PostgreSQL. Creating Views in PostgreSQL . This eighth topic in the PostgreSQL video series focuses on PostgreSQL views. Follow along with Victor and practice creating and modifying virtual tables in PostgreSQL. Creating and Running Functions in Postg...

Spatial Database for GPS Wildlife Tracking Data 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

Learn PostgreSQL

McGraw Hill Professional

Practical SQL is an approachable and fast-paced guide to SQL (Structured Query Language), the standard programming language for defining, organizing, and exploring data in relational databases. The book focuses on using SQL to find the story your data tells, with the popular open-source database PostgreSQL and the pgAdmin interface as its primary tools. You'll first cover the fundamentals of databases and the SQL language, then build skills by analyzing data from the U.S. Census and other federal and state government agencies. With exercises and real-world examples in each chapter, this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently. You'll learn how to: - Create databases and related tables using your own data - Define the right data types for your information - Aggregate, sort, and filter data to find patterns - Use basic math and advanced statistical functions - Identify errors in data and clean them up - Import and export data using delimited text files - Write queries for geographic information systems (GIS) - Create advanced queries and automate tasks

Learning SQL doesn't have to be dry and complicated. Practical SQL delivers clear examples with an easy-to-follow approach to teach you the tools you need to build and manage your own databases. This book uses PostgreSQL, but the SQL syntax is applicable to many database applications, including Microsoft SQL Server and MySQL.

Build and manage high-performance database solutions using PostgreSQL 12 and 13 Packt Publishing Ltd

Get started with PostgreSQL on the cloud and discover the advantages, disadvantages, and limitations of the cloud services from Amazon, Rackspace, Google, and Azure. Once you have chosen your cloud service, you will focus on securing it and developing a back-up strategy for your PostgreSQL instance as part of your long-term plan. Beginning PostgreSQL on the Cloud covers other essential topics such as setting up replication and high availability; encrypting your saved cloud data; creating a connection pooler for your database; and monitoring PostgreSQL on the cloud. The book concludes by showing you how to install and configure some of the tools that will help you get started with PostgreSQL on the cloud. This book shows you how database as a service enables you to spread your data across multiple data centers, ensuring that it is always accessible. You'll discover that this

model does not expect you to install and maintain databases yourself because the database service provider does it for you. You no longer have to worry about the scalability and high availability of your database. What You Will Learn Migrate PostgreSQL to the cloud Choose the best configuration and specifications of cloud instances Set up a backup strategy that enables point-in-time recovery Use connection pooling and load balancing on cloud environments Monitor database environments on the cloud Who This Book Is For Those who are looking to migrate to PostgreSQL on the Cloud. It will also help database administrators in setting up a cloud environment in an optimized way and help them with their day-to-day tasks.