Postgresql Das Offizielle Handbuch

PostgreSQL 10 High Performance
Developing Modern Database Applications with PostgreSQL
PostgreSQL ge-packt
PostgreSQL 9.0 Official Documentation - Volume I. the SQL Language
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PostgreSQL Administration Essentials
The SQL Guide to Pervasive PSQL
PostgreSQL
PostgreSQL High Performance Cookbook
Geodaten für das Naturschutzmanagement landwirtschaftlicher Betriebe

PostgreSQL 9.0 Official Documentation - Volume V. Internals and Appendixes
The Postgresql Reference Manual
PostgreSQL und Windows
PostgreSQL 9.0 Official Documentation - Volume IV. Reference
Learning PostgreSQL 11
Mastering PostgreSQL 13 - Fourth Edition
PostgreSQL
Mastering PostgreSQL 13
PostgreSQL 9.0 Reference Manual - Volume 3
PostgreSQL High Availability Cookbook - Second Edition
Eine starke Gemeinschaft
The PostgreSQL Reference Manual
PostgreSQL

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PostgreSQL 10 High Performance

Fultus Corporation

A comprehensive guide to building, managing, and securing scalable and reliable database and data warehousing applications using Postgres 12 and 13 Key FeaturesSet up your database cluster and monitor, secure, and fine-tune it for optimal performanceLearn the fundamentals of database management and implement client- and server-side programming using SQL and PL/pgSQLExplore useful tips to develop efficient PostgreSQL database solutions from scratchBook 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 learnUnderstand how users and connections are managed by running a PostgreSQL instanceInteract with transaction boundaries using server-side programmingIdentify bottlenecks to maintain your database efficientlyCreate and manage extensions to add new functionalities to your clusterChoose the best index type for each situationUse online tools to set up a memory configuration that will suit most databasesExplore how Postgres can be used in multi-instance environments to provide high-availability, redundancy, and scalabilityWho 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.

Developing Modern Database Applications with PostgreSQL Fultus Corporation

Over 100 recipes to design and implement a highly available server with the advanced features of PostgreSQL 9.4,9.5 and 9.6About 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 recipesWho This Book Is ForIf 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 DetailDatabases 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.

PostgreSQL ge-packt Network Theory. 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.

PostgreSQL 9.0 Official Documentation - Volume I. the SQL Language Packt Publishing Ltd

This book presents the results of the major EU project Promine. For the first time there

is now a European database available on mineral deposits, as well as 3D, 4D and predictive models of major mineral belts in Europe: Fennoscandia (Skellefteå and Vihanti-Pyhäsalmi), the Fore-Sudetic basin (Kupferschiefer deposits in Poland and Germany), the Hellenic belt in northern Greece, and the Iberian Pyrite belt and Ossa Morena zone in Spain and Portugal. The book also describes the modelling techniques applied and how different types of software are used for three- and four-dimensional modelling. Furthermore, fundamental descriptions of how to build the database structure of three-dimensional geological data are provided and both 2D and 3D predictive models are presented for the main mineral belts of Europe.

Beginning Databases with PostgreSQL
MITP-Verlags GmbH & Co. KG
*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

Learning PostgreSQL Pearson Deutschland GmbH
The PostgreSQL 9.0 system administration guide, covers the installation, configuration and maintenance of PostgreSQL 9.0 database servers. Topics include backups, security, tuning and upgrade procedures, and advanced features such as file-based and record-based log-shipping, continuous archiving and point-in-time recovery.

PostgreSQL BoD – Books on Demand
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 learnSet up high availability

PostgreSQL database clusters in the same containment, a cross-containment, and on the cloudMonitor the performance of a PostgreSQL databaseCreate automated unit tests and implement test-driven development for a PostgreSQL databaseDevelop PostgreSQL apps on cloud platforms using DevOps with Python and Node.jsWrite robust APIs for PostgreSQL databases using Python programming, Node.js, and PostgRESTCreate a geospatial database using PostGIS and PostgreSQLImplement automatic configuration by Ansible and Terraform for PostgresWho 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.
3D, 4D and Predictive Modelling of Major Mineral Belts in Europe PostgreSQLApplied Computer Science for GGOS Observatories This book describes Pervasive PSQL in detail. With hundreds of examples, plus a proven approach and structure, the book teaches you how to use Pervasive PSQL efficiently and effectively. It contains a complete description of the SQL dialect as implemented in Version 10. The book can be seen as a tutorial and a reference book. This book is intended for all developers and database administrators using PSQL. Everyone will learn from this book. Young developers will learn how certain features work, and experienced developers will get a better and more thorough understanding of all those features. In short, if you use Pervasive PSQL, this book is for you Note: Source code for the numerous SQL examples and exercises included in this book can be downloaded from www.r20.nl.
Web-Mapping mit Open Source-GIS-Tools Pearson Deutschland GmbH
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 13 Cookbook Diplomica Verlag
Immer mehr verbreitet sich Open-Source-Software. Dieses Buch hilft Ihnen im Umgang mit der Datenbank. Sie lernen wie Sie die Software auf Windows-Systemen installieren, einrichten und administrieren. Hier finden Sie auch Information im Umgang mit Datenbanken, Tabellen, Views, Constraints, Funktionen und Triggern. Das Buch wendet sich an Einsteiger und "Gelegenheitstäter". Die Darstellung ist sehr übersichtlich gestaltet. Bei Ihren Arbeiten mit der Datenbank legen Sie es einfach neben die Tastatur.
Applied Computer Science for GGOS Observatories Addison-Wesley Professional
Leverage the power of PostgreSQL 10 to design, administer and maintain a high-performance database solution Key Features Obtain optimal PostgreSQL 10 database performance, ranging from initial design to routine maintenance Fine tune the performance of your queries and avoid the common pitfalls that can slow your system down Contains tips and tricks on scaling successful database installations,

and ensuring a highly available PostgreSQL solution Book Description PostgreSQL database servers have a common set of problems that they encounter as their usage gets heavier and requirements get more demanding. Peek into the future of your PostgreSQL 10 database's problems today. Know the warning signs to look for and how to avoid the most common issues before they even happen. Surprisingly, most PostgreSQL database applications evolve in the same way--choose the right hardware, tune the operating system and server memory use, optimize queries against the database and CPUs with the right indexes, and monitor every layer, from hardware to queries, using tools from inside and outside PostgreSQL. Also, using monitoring insight, PostgreSQL database applications continuously rework the design and configuration. On reaching the limits of a single server, they break things up; connection pooling, caching, partitioning, replication, and parallel queries can all help handle increasing database workloads. By the end of this book, you will have all the knowledge you need to design, run, and manage your PostgreSQL solution while ensuring high performance and high availability What you will learn Learn best practices for scaling PostgreSQL 10 installations Discover the best hardware for developing high-performance PostgreSQL applications Benchmark your whole system - from hardware to application Learn by real examples how server parameters impact performance Discover PostgreSQL 10 features for partitioning and parallel query Monitor your server, both inside and outside the database Design and implement a good replication system on PostgreSQL 10 Who this book is for This book is designed for database administrators and PostgreSQL architects who already use or plan to exploit the features of PostgreSQL 10 to design and maintain a high-performance PostgreSQL database. A working knowledge of SQL, and some experience with PostgreSQL will be helpful in getting the most out of this book.

Learning PostgreSQL 10 - Second Edition Sams Publishing

Längst ist Web-Mapping, das Bereitstellen von Kartendiensten im Internet, nicht mehr nur ein Thema der eingeschworenen GIS-Community - die Online-Kartografie stößt auch auf reges Interesse einer breit gestreuten Nutzer- und Webentwickler-Gemeinde. Doch gute, umfassende Anleitungen für das Aufbereiten von Geodaten sind rar. Web-Mapping mit Open Source-GIS-Tools zeigt Ihnen anschaulich, wie Sie mit frei verfügbaren Werkzeugen interaktive Karten erstellen können - und wie Sie sie gekonnt auf Ihrer Website präsentieren. Werden Sie selbst zum Kartenautor: Tyler Mitchell beschreibt einen vollständigen Entwicklungszyklus für interaktive Karten: Sie erfahren, wo Sie Geodaten finden, wie Sie sie analysieren, konvertieren, visualisieren und speichern und wie Sie Karten mithilfe der standardisierten Webdienste OGC WMS und OGC WFS generieren können. Sehr gut nachvollziehbare Erläuterungen und viele Beispiele bringen Sie dabei auf direktem Weg zu Ihren eigenen digitalen Karten. Ihr Open Source-Werkzeugkasten für Geodaten: Dieses Buch stellt zahlreiche Open Source-Werkzeuge für die Verarbeitung von Geodaten vor, unter anderem UMN MapServer, Quantum GIS, GDAL/OGR, OpenLayers, Mapbender und PostgreSQL/PostGIS. Es zeigt Ihnen, wie

Sie diese Tools optimal nutzen und kombinieren können, damit sie genau Ihren kartografischen Bedürfnissen entsprechen. Es richtet sich dabei an Einsteiger in die GIS-Welt, lässt Sie aber auch tiefer in fortgeschrittene Themen eintauchen. Für die deutsche Ausgabe wurde das Buch von Astrid Emde und Arnulf Christl von der WhereGroup umfassend aktualisiert und deutlich erweitert. Inhalt der CD-ROM: Die beiliegende Live-CD WebGIS.rlp beinhaltet viele der im Buch beschriebenen Tools sowie räumliche Testdaten. Mithilfe der CD können Sie die beschriebenen Programme und Übungen direkt ausprobieren. Sie wurde von der Initiative zum Aufbau der Geodateninfrastruktur Rheinland-Pfalz erstellt. Die Website zum Buch: Unter http://www.webmappingillustrated.com finden Sie alle Codebeispiele aus diesem Buch sowie Beispieldaten und zahlreiche nützliche Links.

PostgreSQL Developer's Handbook Fultus Corporation

This book is part of the PostgreSQL 9.0 documentation collection (up-to-date & full), published by Fultus Corporation. PostgreSQL 9.0 includes built-in, binary replication, and over a dozen other major features which will appeal to everyone from web developers to database hackers.

Das offizielle MySQL-5-Handbuch Packt Publishing Ltd

Explore expert techniques such as advanced indexing and high availability to build scalable, reliable, and fault-tolerant database applications using PostgreSQL 13 Key FeaturesMaster advanced PostgreSQL 13 concepts with the help of real-world datasets and examplesLeverage PostgreSQL’s indexing features to fine-tune the performance of your queriesExtend PostgreSQL's functionalities to suit your organization's needs with minimal effortBook 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 lossPerform database migration from Oracle to PostgreSQL with easeReplicate PostgreSQL database systems to create backups and scale your databaseManage and improve server security to protect your dataTroubleshoot your PostgreSQL instance to find solutions to common and not-so-common problemsWho 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.

The PostgreSQL Reference Manual
O'Reilly Germany
"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).

PostgreSQL ibidem-Verlag / ibidem Press
This book combines elementary theory from computer science with real-world challenges in global geodetic observation, based on examples from the Geodetic Observatory Wettzell, Germany. It starts with a step-by-step introduction to developing stable and safe scientific software to run successful software projects. The use of software toolboxes is another essential aspect that leads to the application of generative programming. An example is a generative network middleware that simplifies communication. One of the book’s main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques. The complete software design of a satellite laser ranging system is taken as an example. Such automated systems are then combined for global interaction using secure communication tunnels for remote access. The network of radio telescopes is used as a reference. Combined observatories form coordinated multi-agent systems and offer solutions for operational aspects of the Global Geodetic Observing System (GGOS) with regard to “Industry 4.0”.

Mastering PostgreSQL in Application Development Sams Publishing
Für ein nachhaltiges und naturschutzorientiertes Betriebsmanagement benötigen Landwirte verstärkt betriebsbezogene Fachinformationen, die sie bei entsprechenden Unternehmensentscheidungen unterstützen. GIS-basierte Managementsysteme leisten hier wertvolle Hilfestellung, ihr erfolgreicher Einsatz setzt allerdings eine qualitativ geeignete digitale Geodatenbasis voraus. Welche Anforderungen bestehen in diesem Zusammenhang an Geodaten, und welche verfügbaren Datensätze können diese Anforderungen erfüllen? Diesen Fragen geht Astrid Lipski in ihrer vorliegenden Untersuchung nach und gibt, aufbauend auf ihren Untersuchungsergebnissen, - Empfehlungen für den Einsatz von Geodaten im naturschutzorientierten landwirtschaftlichen Betriebsmanagement sowie- Empfehlungen für die zukünftige Ausgestaltung von Geodaten.

Learn PostgreSQL Fultus Corporation

Volume 1 of the official reference documentation for PostgreSQL 8.2.4, covers the complete set of PostgreSQL commands and their syntax.
Packt Publishing Ltd
Welcome to the "PostgreSQL 8.4 Official Documentation - Volume IV. Reference"! After many years of development, PostgreSQL has become feature-complete in many areas. This release shows a targeted approach to adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards.
Marktanalyse, Konzeption und Umsetzung eines Intranet-Auskunftsystems f□r die kommunale Verwaltung Network Theory.

Mastering PostgreSQL in Application Development is intended for developers working on applications that use a database server. The book addresses specifically the PostgreSQL RDBMS: it actually is the world's most advanced Open Source database as said in its slogan on the official website. By the end of this book, you will know why, and agree!