Postgresqlorg Documentation

This is the official documentation of PostgreSQL version 11.2. The manual is 2,816 pages long, and has been split into three volumes. The volume ISBN numbers are: Volume One 9781680922738, Volume Two 9781680922745 and Volume Three 9781680922752. Volume One covers chapters Chapters 1-36. Volume Two covers Chapters 37-50 & the Reference section. Volume Three covers Chapters 51-70 & the Appendixes. Each volume as the full Preface, Bibliography and Index sections. This book has been written by the PostgreSQL developers and other volunteers in parallel to the development of the PostgreSQL software. It describes all the functionality that the current version of PostgreSQL officially supports. To make the large amount of information about PostgreSQL manageable in printed form, this book is organized in several parts. Each part is targeted at a different class of users, or at users in different stages of their PostgreSQL experience: – Part I is an informal introduction for new users. – Part II documents the SQL query language environment, including data types and functions, as well as user-level performance tuning. Every PostgreSQL user should read this. – Part III describes the installation and administration of the server. Everyone who runs a PostgreSQL server, be it for private use or for others, should read this part. – Part IV describes the programming interfaces for PostgreSQL client programs. – Part V contains information for advanced users about the extensibility capabilities of the server. Topics include user-defined data types and functions. – Part VI contains reference information about SQL commands, client and server programs. This part supports the other parts with structured information sorted by command or program. – Part VII contains assorted information that might be of use to PostgreSQL developers. You may download the original document as a PDF for free from Postgresql.org.

PostgreSQL is a rock-solid, scalable, and safe, enterprise-level relational database. With a broad range of features and stability it is ever increasing in popularity. The book shows you how to take advantages of PostgreSQL 11 features for Server-Side-Programming. Server-Side-Programming enables strong data encapsulation and coherence.

This book constitutes the refereed proceedings of the 10th IEEE International Conference Beyond Databases, Architectures, and Structures, BDAS 2014, held in Ustron, Poland, in May 2014. This book consists of 56 carefully revised selected papers that are assigned to 11 thematic groups: query languages, transactions and query optimization; data warehousing and big data; ontologies and semantic web; computational intelligence and data mining; collective intelligence, scheduling, and parallel processing; bioinformatics and biological data analysis; image analysis and multimedia mining; security of database systems; spatial data analysis; applications of database systems; Web and XML in database systems.

Leverage the power of PostgreSQL 11 to build powerful database and data warehousing applications Key FeaturesMonitor, secure, and fine-tune your PostgreSQL 11 databaseLearn client-side and server-side programming using SQL and PL/pgSQLDiscover tips on implementing efficient database solutionsBook Description PostgreSQL is one of the most popular open source database management systems in the world, and it supports advanced features included in SQL standards. This book will familiarize you with the latest features in PostgreSQL 11, and get you up and running with building efficient PostgreSQL database solutions from scratch. Learning PostgreSQL, 11 begins by covering the concepts of relational databases and their core principles. You'll explore the Data Definition Language (DDL) and commonly used DDL commands supported by ANSI SQL. You'll also learn how to create tables, define integrity constraints, build indexes, and set up views and other schema objects. As you advance, you'll come to understand Data Manipulation Language (DML) and server-side programming capabilities using PL/pgSQL, giving you a robust background to develop, tune, test, and troubleshoot your database application. The book will guide you in exploring NoSQL capabilities and connecting to your database to manipulate data objects. You'll get to grips with using data warehousing in analytical solutions and reports, and scaling the database for high availability and performance. By the end of this book, you'll have gained a thorough understanding of PostgreSQL 11 and developed the necessary skills to build efficient database solutions. What you will learnUnderstand the basics of relational databases, relational algebra, and data modelingInstall a PostgreSQL server, create a database, and implement your data modelCreate tables and views, define indexes and stored procedures, and implement triggersMake use of advanced data types such as Arrays, hstore, and JSONBConnect your Python applications to PostgreSQL and work with data efficientlyIdentify bottlenecks to enhance reliability and performance of database applicationsWho this book is for This book is for you if you're interested in learning about PostgreSQL from scratch. Those looking to build solid database or data warehousing applications or wanting to get up to speed with the latest features of PostgreSQL 11 will also find this book useful. No prior knowledge of database programming or administration is required to get started.

PostgreSQL 9.0 Official Documentation - Volume V. Internals and Appendixes

SUSE Linux 10 Unleashed

The Sql Starter Series Book 1 _dml an Introduction to the Sql Data Manipulation Language

Practical Aspects of Declarative Languages

PostgreSQL for Data Architects

Ubuntu 10.10 Server Guide

The official "Ubuntu 10.10 Server Guide" contains information on how to install and configure various server applications on your Ubuntu system to fit your needs.

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 applications 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 is expected.

Learning Heroku Postgres is targeted at developers and database admins. Even if you're new to Heroku Postgres, you'll be able to master both the basic as well as advanced features of Heroku Postgres. Since Heroku Postgres is incredibly user-friendly, no previous experience in computer coding or programming is required.

This book is for moderate to advanced PostgreSQL database professionals who wish to extend PostgreSQL, utilizing the most updated features of PostgreSQL 9.4. For a better understanding of this book, familiarity with writing SQL, a basic idea of query tuning, and some coding experience in your preferred language is expected.

Technological, Economic, and Social Perspectives

PostgreSQL 11 Documentation Manual Version 11.2

Introduction and Concepts

Working with Odoo

PostgreSQL High Availability Cookbook

Beginning PHP and PostgreSQL E-Commerce

A comprehensive guide to understanding key techniques for architecture and hardware planning, monitoring, replication, backups, and decoupling Key FeaturesNewly updated edition, covering the latest PostgreSQL 12 features with hands-on industry-driven recipesCreate a PostgreSQL cluster that stays online even when disaster strikesLearn how to avoid costly downtime and data loss that can ruin your businessBook Description Databases are nothing without the data they store. In the event of an outage or technical catastrophe, immediate recovery is essential. This updated edition ensures that you will learn the important concepts related to node architecture design, as well as techniques such as using repmgr for failover automation. From cluster layout and hardware selection to software stacks and horizontal scalability, this PostgreSQL cookbook will help you build a PostgreSQL cluster that will survive crashes, resist data corruption, and grow smoothly with customer demand. You'll start by understanding how to plan a PostgreSQL database architecture that is resistant to outages and scalable, as it is the scaffolding on which everything rests. With the bedrock established, you'll cover the topics that PostgreSQL database administrators need to know to manage a highly available cluster. This includes configuration, troubleshooting, monitoring and alerting, backups through proxies, failover automation, and other considerations that are essential for a healthy PostgreSQL cluster. Later, you'll learn to use multi-master replication to maximize server availability. Later chapters will guide you through managing major version upgrades without downtime. By the end of this book, you'll have learned how to build an efficient and adaptive PostgreSQL 12 database cluster. What you will learnUnderstand how to protect data with PostgreSQL replication toolsFocus on hardware planning to ensure that your database runs efficientlyReduce database resource contention with connection poolingMonitor and visualize cluster activity with Nagios and the TIG (Telegraf, InfluxDB, Grafana) stack Construct a robust software stack that can detect and avert outagesUse multi-master to achieve an enduring PostgreSQL clusterWho this book is for This book is for Postgres administrators and developers who are looking to build and maintain a highly reliable PostgreSQL cluster. Although knowledge of the new features of PostgreSQL 12 is not required, a basic understanding of PostgreSQL administration is expected.

PostgreSQL 11 Documentation Manual Version 11.2Volume 1 Chapters 1-36

Achieve awesome user experiences and performance with simple, maintainable code! Embrace the full stack of web development, from styling with Bootstrap, building an interactive user interface with Angular 4, to storing data quickly and reliably in PostgreSQL. With this fully revised new edition, take a holistic view of full-stack development to create usable, high-performing applications with Rails 5.1. Rails is a great tool for building web applications, but it's not the best at everything. Embrace the features built into your database. Learn how to use front-end frameworks. Seize the power of the application stack through Angular 4, Bootstrap, and PostgreSQL. When used together, these powerful and easy-to-use tools will open you to a new world of possibilities. This second edition is updated to cover Angular - a completely reworked front-end framework - and dives into new Postgres 9.6 features such as UPSERT. Also new is Webpack coverage, to develop the front-end code for your Rails application. Create a usable and attractive login form using Bootstrap's styles, while ensuring the database table backing it is secure using Postgres' check constraints. See how creating an advanced Postgres index for a case-insensitive search speeds up your back end - enabling you to create a dynamic user experience using Angular 4. Create reusable components that bring Bootstrap and Angular together and effectively use materialized views for caching within Postgres. Get your front end working with Webpack, use Postgres' features from migrations, and write unit tests for all of it. All of this within Rails 5.1. You'll gain the confidence to work at every level of the application stack, bringing the right solution to every problem. What You Need: This book covers Postgres 9.5, Rails 5, and Ruby 2.3. You should have some experience with basic Rails concepts and a cursory understanding of JavaScript, CSS, and SQL, but by no means need to be an expert. You'll learn how to install Postgres on your computer or use a free version of it in the cloud.

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.

Fast and Scalable Cloud Data Management

Volume 1 Chapters 1-36

A Practical Guide to Creating a Data Management System with PostgreSQL/PostGIS and R

20th International Conference, Amsterdam, The Netherlands, June 3–5, 2020, Proceedings, Part V

Fuzzy Data Warehousing for Performance Measurement

Learn PostgreSQL

Learn how to use Odoo, a resourceful, open source business application platform designed to transform and modernize your business About This Book Configure, manage, and customize Odoo to fit the needs of your business Learn about the new Odoo 8 website builder and e-commerce features that are seamlessly integrated with Odoo's business applications Perform step-by-step configurations of the most important Odoo applications using real-world examples Who This Book Is For This book is perfect for people who have never used Odoo and for those who would like to learn about more advanced features such as creating your own custom modules. In order to get the most out of this book, you should be comfortable with downloading and installing software and understand basic business concepts such as sales, purchasing, inventory management, and basic accounting. What You Will Learn Configure a functioning customer relationship management system Set up a purchasing and receiving system for your company that allows you to track inventory, costs, and profit Implement manufacturing operations and processes using real-world examples that you can put to use in your own company Discover the capabilities of Odoo's financial accounting and reporting features Integrate powerful human resource applications that simplify the collection and management of employee information Utilize Odoo's full featured project management application to organize tasks and track time and costs associated with billable projects Customize Odoo without writing a line a code In Detail Odoo continues to gain momentum throughout the world in regards to providing the best platform for open source ERP installations. Now with Odoo 8, you have access to a powerful website builder, integrated e-commerce features, and a fast-growing community to help transform and modernize your business. With this practical guide, you will cover the essential modules to get Odoo up and running for your company. After installing Odoo, you will use its sales management application to enter quotes, create sales orders, and invoice customers. You will then learn how to integrate the CRM application to manage your leads and convert them into lucrative opportunities and sales. Next, you will set up your own purchase management system, assigning products to suppliers and tracking orders with the new warehouse management and routing system. Finally, you will learn how to use analytics to track project expenses and keep your accounts simple and easy to maintain and build an Odoo module to extend its functionality and make it work for you. Working with Odoo covers all the core installation and usage functionalities of this popular tool, helping you to fully implement a working ERP system through practical, advanced, real-world examples. Style and approach This book is a practical guide that uses real-world examples to teach you how to implement Odoo into your business.

The open source PostgreSQL database is soaring in popularity, as thousands of database and web professionals discover its powerful features, transaction support, performance, and industrial-strength scalability. In this book, a founding member of the PostgreSQL development team introduces everything you need to know to succeed with PostgreSQL, from basic SQL commands through database administration and optimization. PostgreSQL assumes no previous database expertise: it establishes a firm foundation of basic concepts and commands before turning to PostgreSQL's advanced, innovative capabilities. Bruce Momjian walks readers step-by-step from their first database queries through the complex queries needed to solve real-world problems. He presents proper query syntax, then explores the value and use of each key SQL commands in working applications. Learn to manipulate and update databases, customize queries, work with SQL aggregates, use joins, combine SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration.

This book constitutes the proceedings of the 13th International Conference on Network and System Security, NSS 2019, held in Sapporo, Japan, in December 2019. The 36 full papers and 7 short papers presented together with 4 invited papers in this book were carefully reviewed and selected from 89 initial submissions. The papers cover a wide range of topics in the field, including authentication, access control, availability, integrity, privacy, confidentiality, dependability and sustainability of computer networks and systems.

The unprecedented scale at which data is both produced and consumed today has generated a large demand for scalable data management solutions facilitating fast access from all over the world. As one consequence, a plethora of non-relational, distributed NoSQL database systems have risen in recent years and today's data management system landscape has thus become somewhat hard to overlook. As another consequence, complex polyglot designs and elaborate schemes for data distribution and delivery have become the norm for building applications that connect users and organizations across the globe – but choosing the right combination of systems for a given use case has become increasingly difficult as well. To help practitioners stay on top of that challenge, this book presents a comprehensive overview and classification of the current system landscape in cloud data management as well as a survey of the state-of-the-art approaches for efficient data distribution and delivery to end-user devices. The topics covered thus range from NoSQL storage systems and polyglot architectures (backend) over distributed transactions and Web caching (network) to data access and rendering performance in the client (end-user). By distinguishing popular data management systems by data model, consistency guarantees, and other dimensions of interest, this book provides an abstract framework for reasoning about the overall design space and the individual positions claimed by each of the systems therein. Building on this classification, this book further presents an application-driven decision guidance tool that breaks the process of choosing a set of viable system candidates for a given application scenario down into a straightforward decision tree.

PostgreSQL 10 High Performance

PostgreSQL Server Programming - Second Edition

Ubuntu 11.04 Server Guide

A Beginner's Guide to Storytelling with Data

Powerful, Effective, Efficient, Full-Stack Web Development

Understanding the New SQL

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 the system through 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 wit

databases is expected.

This book contains refereed papers from the 13th International Conference on GeoComputation held at the University of Texas, Dallas, May 20-23, 2015. Since 1996, the members of the GeoComputation (the art and science of solving complex spatial problems with computers) community have joined together to develop a series of conferences in the United Kingdom, New Zealand, Australia, Irela and the United States of America. The conference encourages diverse topics related to novel methodologies and technologies to enrich the future development of GeoComputation research.

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 t 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.

Provides information on the installation, use, and administration of Suse Linux 10.

Learning Heroku Postgres

Network and System Security

Over 100 recipes to design a highly available server with the advanced features of PostgreSQL 12, 3rd Edition

10th International Conference, BDAS 2014, Ustron, Poland, May 27-30, 2014. Proceedings

Practical PostgreSQL

Concept and Implementation

The official "Ubuntu 11.04 Server Guide" contains information on how to install and configure various server applications on your Ubuntu system to fit your needs.

This handbook of research is one of the few texts to combine Open Source Software (OSS) in public and private sector activities into a single reference source. It examines how the use of OSS affects practices in society, business, government, education, and law.

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.

The Apache HTTP Server 2.2 Official Documentation books covers all aspects of using and managing for the world's most popular web server.

Rails, Angular, Postgres, and Bootstrap

Beyond Databases, Architectures, and Structures

PostgreSQL 11 Server Side Programming Quick Start Guide

Practical SQL

Learning PostgreSQL 11

This book is for developers and data architects who have some exposure to databases. It is assumed that you understand the basic concepts of tables and common database objects, including privileges and security.

The only book you'll ever need on SQL. The authors detail the changes in the new standard and provide a thorough guide to programming with SQL 2 for both newcomers and experienced programmers. The book is one that novice programmers should read cover to cover and experienced DBMS professionals should have as a definitive reference book for the new SQL 2 standard.

Advanced data management has always been at the core of efficient database and information systems. Recent trends like big data and cloud computing have aggravated the need for sophisticated and flexible data storage and processing solutions. This book provides a comprehensive coverage of the principles of data management developed in the last decades with a focus on data structures and query languages. It treats a wealth of different data models and surveys the foundations of structuring, processing, storing and querying data according these models. Starting off with the topic of database design, it further discusses weaknesses of the relational data model, and then proceeds to convey the basics of graph data, tree-structured XML data, key-value pairs and nested, semi-structured JSON data, columnar and record-oriented data as well as object-oriented data. The final chapters round the book off with an analysis of fragmentation, replication and consistency strategies for data management in distributed databases as well as recommendations for handling polyglot persistence in multi-model databases and multi-database architectures. While primarily geared towards students of Master-level courses in Computer Science and related areas, this book may also be of benefit to practitioners looking for a reference book on data modeling and query processing. It provides both theoretical depth and a concise treatment of open source technologies currently on the market.

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.

Volume 3 Chapters 51-70 & Appendixes

Geocomputation 2015--The 13th International Conference

Handbook of Research on Open Source Software: Technological, Economic, and Social Perspectives

Troubleshooting CentOS

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

A beginner's guide to building high-performance PostgreSQL database solutions, 3rd Edition

This book constitutes the refereed proceedings of the 24th International Conference on Practical Aspects of Declarative Languages, PADL 2022, held in Philadelphia, PA, USA, during January 17-18, 2022. The 9 full papers and 4 short papers included in this book were carefully reviewed and selected from 22 submissions. They were organized in topical sections as follows: answer set programming; functional programming; languages, methods and tools; and declarative solutions.

CentOS is the enterprise-grade Linux operating system built using the same source code as Red Hat Enterprise Linux (RHEL) to provide a free-to-use alternative to Red Hat's commercial Linux offering. The purpose of this book is to build on your understanding of CentOS and to explore those mission-critical services you are entrusted to manage and maintain. Starting with a brief introduction to the overall subject of troubleshooting a CentOS server, this book will take you on a journey across the whole spectrum of issue-based problem solving, which includes active processes, the networking environment, package management, users, folders, files, shared resources, security, databases, and web-based services. By the end of the book, you will have expert-level competency in identifying and diagnosing the root causes of CentOS storage, network, and administration issues and resolving them.

The numeric values retrieved from a data warehouse may be difficult for business users to interpret, and may even be interpreted incorrectly. Therefore, in order to better ?understand numeric values, business users may require an interpretation in meaningful, non-numeric terms. However, if the transition between non-numeric terms is crisp, true values cannot be measured and a smooth transition between classes may no longer be possible. This book addresses this problem by presenting a fuzzy classification-based approach for a data warehouses. Moreover, it introduces a modeling approach for fuzzy data warehouses that makes it possible to integrate fuzzy linguistic variables in a meta-table structure. The essence of this structure is that fuzzy concepts can be integrated into the dimensions and facts of an existing classical data warehouse without affecting its core. This allows a simultaneous analysis, both fuzzy and crisp. A case study of a movie rental company underlines and exemplifies the proposed approach.

Welcome to the PostgreSQL 8.4 Official Documentation - Volume I. The SQL Language! 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.

Apache HTTP Server 2.2 Official Documentation - Volume II. Security and Server Programs

Advanced Rails

PostgreSQL 8.4 Official Documentation - Volume I. The SQL Language

Spatial Database for GPS Wildlife Tracking Data

A Complete Guide

Computational Science – ICCS 2020

A hands-on solution provider to PostgreSQL. Expert advice by a highly respected author within the PostgreSQL user community, this book provides detailed, useable information in the popular Essential Reference format. Includes tables within each chapter that organize the material both alphabetically and by task so that readers will have two options for finding the information.

A guide to building applications with Rails covers such topics as metaprogramming, Active Support library, advanced database functions, security principles, RESTful architecture, and optimizing performance.

This book guides animal ecologists, biologists and wildlife and data managers through a step-by-step procedure to build their own advanced software platforms to manage and process wildlife tracking data. This unique, problem-solving-oriented guide focuses on how to extract the most from GPS animal tracking data, while preventing error propagation and optimizing analysis performance. Based on the open source PostgreSQL/PostGIS spatial database, the software platform will allow researchers and managers to integrate and harmonize GPS tracking data together with animal characteristics, environmental data sets, including remote sensing image time series, and other bio-logged data, such as acceleration data. Moreover, the book shows how the powerful R statistical environment can be integrated into the software platform, either connecting the database with R, or embedding the same tools in the database through the PostgreSQL extension Pl/R. The client/server architecture allows users to remotely connect a number of software applications that can be used as a database front end, including GIS software and WebGIS. Each chapter offers a real-world data management and processing problem that is discussed in its biological context; solutions are proposed and exemplified through ad hoc SQL code, progressively exploring the potential of spatial database functions applied to the respective wildlife tracking case. Finally, wildlife tracking management issues are discussed in the increasingly widespread framework of collaborative science and data sharing. GPS animal telemetry data from a real study, freely available online, are used to demonstrate the proposed examples. This book is also suitable for undergraduate and graduate students, if accompanied by the basics of databases.

"This book offers research articles focused on key issues concerning the development, design, and analysis of databases"--Provided by publisher.

Selected Readings on Database Technologies and Applications

PostgreSQL Essential Reference

13th International Conference, NSS 2019, Sapporo, Japan, December 15–18, 2019, Proceedings

Advanced Data Management

PostgreSQL 9.0 Official Documentation - Volume I. The SQL Language

PostgreSQL

The first book to show readers how to create a complete e-commerce driven website using two of the most popular open source technologies, PHP and PostgreSQL Adapted from the strong selling Beginning PHP 5 and MySQL E-Commerce, this book is based on a proven and popular instructional model. PostgreSQL, long the second most popular open source database in the world, has seen a significant resurgence in interest throughout 2005 due to software enhancements and considerable capital injections. It stands to reason already strong interest in this database will continue to grow for the foreseeable future.

The seven-volume set LNCS 12137, 12138, 12139, 12140, 12141, 12142, and 12143 constitutes the proceedings of the 20th International Conference on Computational Science, ICCS 2020, held in Amsterdam, The Netherlands, in June 2020.* The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions (230 submissions to the main track and 489 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track Part III: Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Computational Methods in Artificial Intelligence and Machine Learning; Track of Biomedical and Bioinformatics Challenges for Computer Science Part IV: Track of Classifier Learning from Difficult Data; Track of Complex Social Systems through the Lens of Computational Science; Track of Computational Health; Track of Computational Methods for Emerging Problems in (Dis-)Information Analysis Part V: Track of Computational Optimization, Modelling and Simulation; Track of Computational Science in IoT and Smart Systems; Track of Computer Graphics, Image Processing and Artificial Intelligence Part VI: Track of Data Driven Computational Sciences; Track of Machine Learning and Data Assimilation for Dynamical Systems; Track of Meshfree Methods in Computational Sciences; Track of Multiscale Modelling and Simulation; Track of Quantum Computing Workshop Part VII: Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation; Track of Smart Systems: Bringing Together Computer Vision, Sensor Networks and Machine Learning; Track of Software Engineering for Computational Science; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Track of UNcErtainty QUantIficatiOn for ComputationAl modeLs *The conference was canceled due to the COVID-19 pandemic.

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