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Hans-Jürgen Schönig

PHP and PostgreSQL Ewald Geschwinde, Hans-Jürgen Schönig, 2002 Introduction. 1. Pt. I. Getting Started. 3. 1. Getting Started. 5. 2. Setting Up PHP. 15. 3. PHP Basics. 43. 4. Object-Oriented PHP. 121. Pt. II. Getting Started with PostgreSQL. 137. 5. Relational and Object-Relational Database Concepts. 139. 6. Installing PostgreSQL. 149. 7. Basic SQL. 177. 8. Advanced SQL. 225. 9. Embedded Languages. 307. 10. PostgreSQL Administration. 349. Pt. III. PHP/PostgreSQL Interaction. 379. 11. Writing Database-Driven Applications. 381. 12. Working with BLOBs. 405. 13. Working with Persistent Database Connections, 423, Pt. IV. Advanced Technologies. 433. 14. Managing Regular Expressions. 435. 15. Session Management. 463. 16. Working with Dynamic Documents, Images, and Movies. 475. 17. Working with Dates and Time. 521. 18. Tuning. 551. 19. XML. 573. 20. Security Issues, 585, Pt. V. Practical Examples, 597, 21, Web Applications. 599. 22. Extending PostgreSQL. 669. 23. High-Availability Systems. 695. Pt. VI. Migration. 709. 24. Migration. 711. . Index. 721.

Mastering PostgreSQL 13 Hans-Jürgen
Schönig,2020-11-13 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.

Learning PostgreSQL 11 Salahaldin Juba, Andrey Volkov, 2019-01-31 Leverage the power of PostgreSQL 11 to build powerful database and data warehousing applications Key FeaturesMonitor, secure, and fine-tune your PostgreSQL 11 databaseLearn clientside 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.

Beginning Databases with PostgreSQL Richard Stones, Neil Matthew, 2006-11-03 *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

PostgreSQL High Performance Cookbook Chitij Chauhan, Dinesh Kumar, 2017-03-29 Get to know effective ways to improve PostgreSQL's performance and master query optimization, and database monitoring. About This Book Perform essential database tasks such as benchmarking the database and optimizing the server's memory usage Learn ways to improve query performance and optimize the PostgreSQL server Explore a wide range of high availability and replication mechanisms to build robust, highly available, scalable, and faulttolerant PostgreSQL databases Who This Book Is For If you are a developer or administrator with limited PostgreSQL knowledge and want to develop your skills with this great open source database, then this book is ideal for you. Learning how to enhance the database performance is always an exciting topic to everyone, and this book will show you enough ways to enhance the database performance. What You Will Learn Build replication strategies for homogeneous and heterogeneous databases Test and build a powerful machine with multiple bench marking techniques Get to know a few SQL injection techniques Find out how to manage the replication using multiple tools

Benchmark the database server using multiple strategies Work with the guery processing algorithms and their internal behaviors Build a proper plan to upgrade or migrate to PostgreSQL from other databases See the essential database load balancing techniques and the various partitioning approaches PostgreSQL provides Learn memory optimization techniques and database server configurations In Detail PostgreSQL is one of the most powerful and easy to use database management systems. It has strong support from the community and is being actively developed with a new release every year. PostgreSQL supports the most advanced features included in SOL standards. It also provides NoSQL capabilities and very rich data types and extensions. All of this makes PostgreSQL a very attractive solution in software systems. If you run a database, you want it to perform well and you want to be able to secure it. As the world's most advanced open source database, PostgreSQL has unique built-in ways to achieve these goals. This book will show you a multitude of ways to enhance your database's performance and give you insights into measuring and optimizing a PostgreSQL database to achieve better performance. This book is your one-stop guide to elevate your PostgreSQL knowledge to the next level. First, vou'll get familiarized with essential developer/administrator concepts such as load balancing, connection pooling, and distributing connections to multiple nodes. Next, you will explore memory optimization techniques before exploring the security controls offered by PostgreSQL. Then, you will move on to the

essential database/server monitoring and replication strategies with PostgreSQL. Finally, you will learn about query processing algorithms. Style and approach This comprehensive guide is packed with practical administration tasks. Each topic is explained using examples and a step-by-step approach.

Mastering PostgreSQL 11 Hans-Jürgen Schönig, 2018-10-30 Master the capabilities of PostgreSQL 11 to efficiently manage and maintain your database Key FeaturesMaster advanced concepts of PostgreSQL 11 with real-world datasets and examplesExplore query parallelism, data replication, and database performance while working with larger datasetsExtend the functionalities of your PostgreSQL instance to suit your organization's needs with minimal effortBook Description This second edition of Mastering PostgreSQL 11 helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSQL, which enables database analysts to design both the physical and technical aspects of the system architecture with ease. This book begins with an introduction to the newly released features in PostgreSQL 11 to help you build efficient and fault-tolerant PostgreSQL applications. You'll examine all of the advanced aspects of PostgreSQL in detail, including logical replication, database clusters, performance tuning, monitoring, and user management. You will also work with the PostgreSQL optimizer, configuring PostgreSQL for high speed, and see how to move from Oracle to PostgreSQL. As you progress through the chapters, you will cover

transactions, locking, indexes, and optimizing queries to improve performance. Additionally, you'll learn to manage network security and explore backups and replications, while understanding the useful extensions of PostgreSQL so that you can optimize the speed and performance of large databases. By the end of this book, you will be able to use your database to its utmost capacity by implementing advanced administrative tasks with ease. What you will learnGet to grips with advanced PostgreSQL 11 features and SQL functionsMake use of the indexing features in PostgreSQL and fine-tune the performance of your queriesWork with stored procedures and manage backup and recoveryMaster replication and failover techniquesTroubleshoot your PostgreSQL instance for solutions to common and not-so-common problemsPerform database migration from MySQL and Oracle to PostgreSQL with easeWho this book is for This book is for data and database professionals wanting to implement advanced functionalities and master complex administrative tasks with PostgreSQL 11. Prior experience of database administration with PostgreSQL database will aid in understanding the concepts covered in this book.

Mastering PostgreSQL 12 Hans-Jürgen Schönig,2019-11-29 Master PostgreSQL 12 features such as advanced indexing, high availability, monitoring, and much more to efficiently manage and maintain your database Key FeaturesGrasp advanced PostgreSQL 12 concepts with real-world examples and sample datasetsExplore query parallelism, data replication, database

administration, and moreExtend PostgreSQL functionalities to suit your organization's needs with minimal effortBook Description Thanks to its reliability, robustness, and high performance, PostgreSQL has become the most advanced open source database on the market. This third edition of Mastering PostgreSQL helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSQL, which enables database analysts to design both physical and technical aspects of system architecture with ease. Starting with an introduction to the newly released features in PostgreSQL 12, this book will help you build efficient and fault-tolerant PostgreSQL applications. You'll thoroughly examine the advanced features of PostgreSQL, including logical replication, database clusters, performance tuning, monitoring, and user management. You'll also work with the PostgreSQL optimizer, configure PostgreSQL for high speed, and understand how to move from Oracle to PostgreSQL. As you progress through the chapters, you'll cover transactions, locking, indexes, and how to optimize gueries for improved performance. Additionally, you'll learn how to manage network security and explore backups and replications while understanding useful PostgreSQL extensions to help you in optimizing the performance of large databases. By the end of this PostgreSQL book, you'll be able to get the most out of your database by implementing advanced administrative tasks effortlessly. What you will learnUnderstand the advanced SQL functions in PostgreSQL 12Use indexing features in PostgreSQL to fine-tune the

performance of queriesWork with stored procedures and manage backup and recoveryMaster replication and failover techniques to reduce data lossReplicate PostgreSQL database systems to create backups and to scale your databaseManage and improve the security of your server to protect your dataTroubleshoot your PostgreSQL instance for solutions to common and not-so-common problemsWho this book is for This book is for PostgreSQL developers and administrators and database professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 12. Prior exposure to PostgreSQL as well as familiarity with the basics of database administration is expected.

Learn PostgreSQL Luca Ferrari, Enrico Pirozzi, 2020-10-09 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/pqSQLExplore useful tips to develop efficient PostgreSQL database solutions from scratchBook Description PostgreSQL is one of the fastest-growing open source objectrelational 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 highavailability, 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.

PostgreSQL 11 Documentation Manual Version 11.2 Postgresgl Global Development Group, 2019-04-27 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 PostgreSOL 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 guery 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 Postgresgl.org.

PostgreSQL 9.0 Reference Manual - Volume 2
Postgresql Global Development Group,2010 This
manual documents the client and server interfaces
to PostgreSQL 9.0 including C/C++, embedded SQL/C,
PL/pgSQL, PL/Tcl, PL/Perl and PL/Python. Triggers
and views are also described in detail.

PostgreSQL for DBA Volume 1 Federico Campoli,2019-01-19 This is the first volume of a book series covering PostgreSQL from the database administration point of view. The book covers PostgreSQL 11 on Linux analysing the install procedure either from sourceand with packages on Debian and RPM based systems. A good part of the book explains the logical organisation and the physical structure in order to givethe reader a good starting point to understand the PostgreSQL internals. Logical backup and restore with pg dump

are also analysed and performance tips for speeding up a disaster recovery are given. The book also explain how PostgreSQL executes a query, the maintenance and the internal statistics in order to give the database administrators the know how for keeping PostgreSQL running efficiently at all time.

PostgreSQL 9.5 Voll: The SQL Language Postgresql Development Group, 2016-03-22 PostgreSQL is an object-relational database management system (ORDBMS) developed at the University of California at Berkeley Computer Science Department. This comprehensive reference manual consists of 6 books. This is Volume 1 with the main part The SQL Language. To keep it consistent with the digital PostgreSQL manual, the references and page numbers cover all volumes as it were one. Therefore please note that you probably want to have all volumes. This book is based on PostgreSQL 9.5.1

PHP and PostgreSQL Ewald Geschwinde, Hans-Jurgen
Schonig,

<u>Database System Concepts</u> Abraham Silberschatz, Henry F. Korth, S. Sudarshan, 2006 Intended for a first course in databases at junior or senior undergraduate, or first year graduate level, this book provides extensive coverage of concepts, database system internals and tools and techniques.

PostgreSQL Developer's Handbook Ewald Geschwinde, Hans-Jürgen Schönig, 2002 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.

Distributed Applications and Interoperable Systems Miguel Matos, Fabíola Greve, 2021-06-09 This book constitutes the refereed proceedings of the 21st IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2021, held in Valletta, Malta, in June 2021, as part of the 16th International Federated Conference on Distributed Computing Techniques, DisCoTec 2021. The 7 regular papers and 3 short papers presented in this book were carefully reviewed and selected from 15 submissions. DAIS addresses all practical and conceptual aspects of distributed applications, including their design, modeling, implementation and operation, the supporting middleware, appropriate software engineering methodologies and tools, as well as experimental studies and applications.

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 opensource 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.

Python for Data Analysis Wes McKinney, 2017-09-25 Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's

ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

German Medical Data Sciences 2021: Digital Medicine: Recognize - Understand - Heal R. Röhrig, T. Beißbarth, J. König, 2021-10-14 Digitization offers great potential — especially in medicine. Cross-domain and cross-institutional linkage, big data, artificial intelligence and robotics can all help to improve research and care, but they also pose new challenges to all those involved. This book presents the joint proceedings of the GMDS (German Medical Data Sciences) and TMF (its Technology, Methodology and Infrastructure platform), held entirely online from 26 - 30 September 2021 as a result of restrictions due to the Coronavirus pandemic. This joint event addresses the opportunities and risks of using new information technologies in medicine, as well as the resulting requirements for data protection, data security and ethics. Methodological challenges associated with the

preparation, evaluation and interpretation of data volumes which constantly increase in type and scope in the course of digitization are also examined in detail. The 25 papers included here are divided into 5 sections: editorials: artificial intelligence and clinical decision support systems (CDSS); data integration and interoperability; human computer interaction; and software systems and frameworks, and the topics covered are very diverse, ranging from disease detection using retinal imaging, through data management and sharing, to interactive web applications. Providing an overview of regional research and developments in the field, the book will be of interest to all those working in health technology and medical informatics; researchers and practitioners alike.

SOL All-in-One For Dummies Allen G. Taylor, 2011-04-05 The soup-to-nuts guide on all things SQL! SQL, or structured guery language, is the international standard language for creating and maintaining relational databases. It is the basis of all major databases in use today and is essential for the storage and retrieval of database information. This fun and friendly guide takes SQL and all its related topics and breaks it down into easily digestible pieces for you to understand. You'll get the goods on relational database design, development, and maintenance, enabling you to start working with SQL right away! Provides an overview of the SQL language and examines how it is integral for the storage and retrieval of database information Includes updates to SQL standards as well as any new features

Explores SQL concepts, relational database development, SQL queries, data security, database tuning, and more Addresses the relationship between SQL and programming as well as SQL and XML If you're looking for an up-to-date sequel to the bestelling first edition of SQL All-in-One For Dummies, then this is the book for you!

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Postgresql 913 1 Introduction

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