

Postgresql 11 Server Side Programming

Quick Start

Learning PostgreSQL Salahaldin Juba,Achim Vannahme,Andrey Volkov.2015-11-30 Create, develop and manage relational databases in real world applications using PostgreSQL About This Book Learn about the PostgreSQL development life cycle including its testing and refactoring Build productive database solutions and use them in Java applications A comprehensive guide to learn about SQL, PostgreSQL procedural language and PL/pgSQL Who This Book Is For If you are a student, database developer or an administrator, interested in developing and maintaining a PostgreSQL database, then this book is for you. No knowledge of database programming or administration is necessary. What You Will Learn Learn concepts of data modelling and relation algebra Install and set up PostgreSQL database server and client software Implement data structures in PostgreSQL Manipulate data in the database using SQL Implement data processing logic in the database with stored functions, triggers and views Test database solutions and assess the performance Integrate database with Java applications Detailed knowledge of the main PostgreSQL building objects, most used extensions Practice database development life cycle including analysis, modelling, (documentation), testing, bug fixes and refactoring In Detail PostgreSQL is one of the most powerful and easy to use database management systems. It has strong support from the community and is being actively developed with a new release every year. PostgreSQL supports the most advanced features included in SQL standards. Also it provides NoSQL capabilities, and very rich data types and extensions. All that makes PostgreSQL a very attractive solution in various kinds of software systems. The book starts with the introduction of relational databases with PostgreSQL. It then moves on to covering data definition language (DDL) with emphasis on PostgreSQL and common DDL commands supported by ANSI SQL. You will then learn the data manipulation language (DML), and advanced topics like locking and multi version concurrency control (MVCC). This will give you a very robust background to tune and troubleshoot your application. The book then covers the implementation of data models in the database such as creating tables, setting up integrity constraints, building indexes, defining views and other schema objects. Next, it will give you an overview about the NoSQL capabilities of PostgreSQL along with Hstore, XML, Json and arrays. Finally by the end of the book, you'll learn to use the JDBC driver and manipulate data objects in the Hibernate framework. Style and approach An easy-to-follow guide to learn programming build applications with PostgreSQL, and manage a PostgreSQL database instance.

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 learn
Get to grips with advanced PostgreSQL 11 features and SQL functions
Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries
Work with stored procedures and manage backup and recovery
Master replication and failover techniques
Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems
Perform database migration from MySQL and Oracle to PostgreSQL with ease
Who 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.

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 Features
Set up your database cluster and monitor, secure, and fine-tune it for optimal performance
Learn the fundamentals of database management and implement client- and server-side programming using SQL and PL/pgSQL
Explore useful tips to develop efficient PostgreSQL database solutions from scratch
Book 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 learn
Understand how users and connections are managed by running a PostgreSQL instance
Interact with transaction boundaries using server-side programming
Identify bottlenecks to maintain your database efficiently
Create and manage extensions to add new functionalities to your cluster
Choose the best index type for each situation
Use online tools to set up a memory configuration that will suit most databases
Explore how Postgres can be used in multi-instance environments to provide high-availability, redundancy, and scalability
Who 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.

PHP and PostgreSQL Programming By Example Agus Kurniawan. 2016-03-26 This book helps you to get started how to build PHP programs which access PostgreSQL server. The following is highlight topics
* Setting up Development Environment
* Hello World - PHP and PostgreSQL
* CRUD Operations
* Working with Image and Blob Data
* Transaction
* Stored Procedures

PostgreSQL Tutorial for Beginners - Learn PostgreSQL from Scratch Anmol GOYAL. 2018-02-13 PostgreSQL is a powerful, open source object-relational database system. It has more than 15 years of active development and a proven architecture that has earned it a strong reputation for reliability, data integrity, and correctness. PostgreSQL runs on all major operating systems, including Linux, UNIX (AIX, BSD, HP-UX, SGI IRIX, Mac OS X, Solaris, Tru64), and Windows. This tutorial will give you quick start with PostgreSQL and make you comfortable with

PostgreSQL programming. Audience This tutorial has been prepared for the beginners to help them understand the basic to advanced concepts related to PostgreSQL Database. Prerequisites Before you start practicing with various types of examples given in this reference, I'm making an assumption that you are already aware of what a database is, especially RDBMS and what a computer language is.

PostgreSQL 8 for Windows Richard Blum. 2007-04-03 The easiest way to set up a PostgreSQL database server on Windows Get up-and-running on PostgreSQL quickly using this hands-on guide. Filled with real-world examples, PostgreSQL 8 for Windows offers you practical, step-by-step details on installing, configuring, and using PostgreSQL 8--the full-featured, open-source database management system--on Windows platforms. You'll learn to administer, secure, and tune your database and use SQL. You'll also discover how to interface Microsoft Access, Microsoft .NET, Visual C++, and Java with the PostgreSQL database. Install and configure PostgreSQL 8 on Windows Customize your system using the configuration files Work with the utilities Administer your database from the pgAdmin III graphical interface Use the psql command line program to manually execute SQL commands Take advantage of built-in functions or create your own stored procedures and triggers Implement tested security measures Maintain optimal database performance Access a PostgreSQL database from a Microsoft Access application and migrate Access databases to PostgreSQL Create .NET, Visual C++, and Java applications that interface with your PostgreSQL server

SQL in 7 Days Alex Bolenok. 2022-11-21 Capsulated knowledge on SQL for Data Professionals KEY FEATURES ● A fantastic crash course on learning SQL for database programming and querying. ● Numerous examples and use cases on every aspect of SQL and developer jobs. ● Complex queries, performance tweaking, and database design patterns are all included. DESCRIPTION This book provides lucid explanations of the features of SQL, beginning with the most fundamental and progressing to the most advanced. You'll be able to learn how to perform everyday SQL operations like adding new entries, modifying or deleting old ones, and performing simple and sophisticated SQL queries with the assistance of this book, which makes learning SQL a more efficient and practical process. This book will teach you some of the more complex features of database management, including joining algorithms, materialized views, optimizers, and indexing, and it will do so by providing you with proven illustrations. Finally, the book demonstrates how to get started with cloud-based database design by providing step-by-step instructions. With case studies drawn from the author's own experience, the book teaches you everything you need to know about SQL. This book walks you through the inner workings of a database system and teaches you how to utilize SQL to get the most out of your database. As the book progresses, you'll get a deeper understanding of database engineering principles that will speed up data mining and analysis. WHAT YOU WILL LEARN ● Perform operations such as projections, joins, filters, aggregations, and CTE. ● Optimize database performance, including indexing, query planning, and materialization. ● Examine client-side and server-side programming for SQL databases. ● Become proficient with OLTP and data warehouse databases. ● Cutting-edge knowledge of cloud database design techniques. WHO THIS BOOK IS FOR This book is for every data professional, including database developers, project managers, database administrators, software engineers, web developers, and full-stack developers, who wish to learn and apply SQL in their development operations quickly. This book may be read by anyone, regardless of whether or not they are familiar with SQL. TABLE OF CONTENTS 1. Basic Concepts 2. Putting Data in 3. Basic Queries 4. Advanced Queries 5. Data Organization 6. Performance 7. Server-Side Programming 8. Client-Side Programming 9. Design and Management

POSTGRESQL FOR JAVA GUI: Database and Image Processing Vivian Siahaan, Rismon Hasiholan Sianipar. 2019-08-27 In this book, you will learn how to build from scratch a criminal records management database system using Java/PostgreSQL. All Java code for digital image processing in this book is Native Java. Intentionally not to rely on external libraries, so that readers know in detail the process of extracting digital images from scratch in Java. There are only three external libraries used in this book: Connector / J to facilitate Java to MySQL connections, JCalendar to display

calendar controls, and JFreeChart to display graphics. Digital image techniques to extract image features used in this book are grascaling, sharpening, inverting, blurring, dilation, erosion, closing, opening, vertical prewitt, horizontal prewitt, Laplacian, horizontal sobel, and vertical sobel. For readers, you can develop it to store other advanced image features based on descriptors such as SIFT and others for developing descriptor based matching. In the first chapter, you will learn: How to install NetBeans, JDK 11, and the PostgreSQL connector; How to integrate external libraries into projects; How the basic PostgreSQL commands are used; How to query statements to create databases, create tables, fill tables, and manipulate table contents is done. In the first chapter, you will learn: How to install NetBeans, JDK 11, and the PostgreSQL connector; How to integrate external libraries into projects; How the basic PostgreSQL commands are used; How to query statements to create databases, create tables, fill tables, and manipulate table contents is done. In the second chapter, you will learn querying data from the postgresql using jdbc including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using jdbc, updating data in postgresql database using jdbc, calling postgresql stored function using jdbc, deleting data from a postgresql table using jdbc, and postgresql jdbc transaction. In third chapter, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. In the fourth chapter, you will be taught how to create Crime database and its tables. In the fifth chapter, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_status, arrest_date, mother_name, address, telephone, and photo. In the sixth chapter, you will be taught to create Java GUI to view, edit, insert, and delete Feature_Extraction table data. This table has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. All six fields (except keys) will have a BLOB data type, so that the image of the feature will be directly saved into this table. In the seventh chapter, you will add two tables: Police_Station and Investigator. These two tables will later be joined to Suspect table through another table, File_Case, which will be built in the seventh chapter. The Police_Station has six columns: police_station_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone, and photo. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In the eighth chapter, you will add two tables: Victim and File_Case. The File_Case table will connect four other tables: Suspect, Police_Station, Investigator and Victim. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The File_Case has seven columns: file_case_id (primary key), suspect_id (foreign key), police_station_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. Here, you will also design a Java GUI to display, edit, fill, and delete data in both tables. Finally, this book is hopefully useful for you.

PostgreSQL Server Programming - Second Edition Usama Dar, Hannu Krosing, Jim Mlodgenski, Kirk Roybal. 2015-02-26 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.

PostgreSQL Bruce Momjian. 2001 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.

The PostgreSQL Reference Manual PostgreSQL Global Development Group.2007 Volume 2 of the official reference documentation for PostgreSQL 8.2.4, covers the client and server interfaces to PostgreSQL.

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.

Sql: Visual Quickstart Guide, 3/E Fehily.2008-09

PostgreSQL 9.5 Vol4: Server Programming 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 4 with the main part Server Programming. 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

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.

Next.js Quick Start Guide Kirill Konshin.2018-07-26 Next.js is a powerful addition to the evergrowing and dynamic JavaScript world. Built on top of React, Webpack and Babel, it is a minimalistic framework for server-rendered universal JavaScript applications. This book will show you the best practices of building sites using Next.js, enabling you to build SEO-friendly and super fast websites.

PostgreSQL Essential Reference Barry Stinson.2001 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.

Practical PostgreSQL Joshua D. Drake,John C. Worsley.2002-01-07 Arguably the most capable of all the open source databases, PostgreSQL is an object-relational database management system that- until now- lacked comprehensive, easy-to-use documentation. Practical PostgreSQL is a fast-paced guide that shows you how to get PostgreSQL installed, configured, and running. This comprehensive book delves into the many advanced features of the PostgreSQL Application Server, LXP, including the use of SQL within PostgreSQL, and covers basic PostgreSQL database administration.

PostgreSQL Korry Douglas,Susan Douglas.2003 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).

Quick Start Full Stack Web Development Erik Ferragut.2020-01-28 Quick Start Full Stack Web Development removes the trial and error from learning to make web applications. Being a full stack web developer does not mean knowing everything about every web technology, but rather knowing enough to build a complete application including a front end, a back end, and a database. Web

searching can provide useful snippets of information, but integrating those pieces into a working whole remains a challenge. This book will walk the reader through both the component technologies and the steps required to get the pieces to work together. This clear focus can save countless hours of frustration compared to trying to assemble a working solution from inconsistent and outdated sources. The reader should have some familiarity with Python or JavaScript, but no web programming experience is assumed. Quick Start Full Stack Web Development explains key concepts, such as REST APIs and JSON Web Tokens, and then puts these concepts into practice with real, working examples. The examples are built step-by-step, providing an opportunity to experiment with the ideas. Furthermore, there is a consistent focus on getting instant feedback as changes are made to the code, a good practice for quickly building intuition and gaining experience. The chosen technologies (React, Flask, and PostgreSQL) are excellent options for newcomers to web development because they are relatively easy to learn, have vibrant supportive communities, and can scale to large and complex applications. Rather than providing a cursory introduction to a variety of technology options, Quick Start Full Stack Web Development provides a thorough foundation in one technology stack. This prevents confusion, provides more opportunities to reinforce concepts, and leads more quickly to significant results. Learn how to: Build a Python Flask REST API Develop and style a React client Design SQLite and PostgreSQL databases using SQLAlchemy Incorporate JSON Web Tokens (JWT) for authentication Test it using httpie, browser dev tools, pytest, and Jest Document it using Sphinx and Storybook Deploy using Gunicorn and NGINX on a Platform-as-a-Service The result is a fully functional full stack web application that addresses all the little details, like serving the client and API from the same server, managing the environment with a config file, making the documentation visible in the git repository, and populating and uploading databases. Because it focuses on getting to a working application, Quick Start Full Stack Web Development is well suited to entrepreneurs and solopreneurs building out their minimal viable products. And because it explains the concepts and shows them in practice, it will help programmers who want to get into web development. If you want to learn these powerful skills as quickly as possible, then this book is for you.

SQL QuickStart Guide Walter Shields.2019-11-18 THE BEST SQL BOOK FOR BEGINNERS - HANDS DOWN!*INCLUDES FREE ACCESS TO A SAMPLE DATABASE, SQL BROWSER APP, COMPREHENSION QUIZZES & SEVERAL OTHER DIGITAL RESOURCES!*SQL is the workhorse programming language that forms the backbone of modern data management and interpretation.Any database management professional will tell you that despite trendy data management languages that come and go, SQL remains the most widely used and most reliable to date, with no signs of stopping. In this comprehensive guide, experienced mentor and SQL expert Walter Shields draws on his considerable knowledge to make the topic of relational database management accessible, easy to understand, and highly actionable.SQL QuickStart Guide is ideal for those seeking to increase their job prospects and enhance their careers, for developers looking to expand their programming capabilities, or for anyone who wants to take advantage of our inevitably data-driven future-even with no prior coding experience!SQL QuickStart Guide Is For: - Professionals looking to augment their job skills in preparation for a data-driven future - Job seekers who want to pad their skills and resume for a durable employability edge - Beginners with zero prior experience - Managers, decision makers, and business owners looking to manage data-driven business insights - Developers looking to expand their mastery beyond the full stack - Anyone who wants to be better prepared for our data-driven future!In SQL QuickStart Guide You'll Discover: - The basic structure of databases-what they are, how they work, and how to successfully navigate them - How to use SQL to retrieve and understand data no matter the scale of a database (aided by numerous images and examples) - The most important SQL queries, along with how and when to use them for best effect - Professional applications of SQL and how to sell your new SQL skills to your employer, along with other career-enhancing considerations*LIFETIME ACCESS TO SQL RESOURCES*Each book comes with free lifetime access to tons of exclusive online resources to help you master SQL, such as workbooks, cheat sheets and reference guides.

SQL: Visual QuickStart Guide, Third Edition Chris Fehily.2008

PostgreSQL 11 Documentation Manual Version 11.2 Postgresql 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 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.

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.

Procedural Programming with PostgreSQL and PL/pgSQL Baji Shaik, Dinesh Kumar Chemuduru. 2023-11-16 Learn the fundamentals of PL/PGSQL, the programming language of PostgreSQL which is most robust Open Source Relational Database. This book provides practical insights into developing database code objects such as functions and procedures, with a focus on effectively handling strings, numbers, and arrays to achieve desired outcomes, and transaction management. The unique approach to handling Triggers in PostgreSQL ensures that both functionality and performance are maintained without compromise. You'll gain proficiency in writing inline/anonymous server-side code within the limitations, along with learning essential debugging and profiling techniques. Additionally, the book delves into statistical analysis of PL/PGSQL code and offers valuable knowledge on managing exceptions while writing code blocks. Finally, you'll explore the installation and configuration of extensions to enhance the performance of stored procedures and functions. What You'll Learn Understand the PL/PGSQL concepts Learn to debug, profile, and optimize PL/PGSQL code Study linting PL/PGSQL code Review transaction management within PL/PGSQL code Work with developer friendly features like operators, casts, and aggregators Who Is This Book For App developers, database migration consultants, and database administrators.

Mastering PostgreSQL 10 Hans-Jürgen Schönig. 2018-01-31 Master the capabilities of PostgreSQL 10 to efficiently manage and maintain your database Key Features Your one-stop guide to mastering advanced concepts in PostgreSQL 10 with ease Master query optimization, replication, and high availability with PostgreSQL Extend the functionalities of your PostgreSQL instance to suit your organizational needs with minimal effort Book Description PostgreSQL is an open source database used for handling large datasets (big data) and as a JSON document database. This book highlights the newly introduced features in PostgreSQL 10, and shows you how you can build better PostgreSQL applications, and administer your PostgreSQL database more efficiently. We begin by explaining advanced database design concepts in PostgreSQL 10, along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery, high availability, and much more. You will understand common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL 10. What you will learn Get to grips with the advanced features of PostgreSQL 10 and handle advanced SQL Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with stored procedures and manage backup and recovery Master replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle Who this book is for If you are a PostgreSQL data architect or an administrator and want to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL 10, then this book is perfect for you. Prior experience of administering a PostgreSQL database and a working knowledge of SQL are required to make the best use of this book.

SQL QuickStart Guide Clydebank Technology. 2015-03-11 In this book, we show you everything you need to know in order to utilize SQL in any capacity. Our book provides multiple, simple, and easy to understand step-by-step examples of how to master these SQL concepts to ensure you know what you're doing and why you're doing it every step of the way. You will go from knowing absolutely nothing about SQL, to being able to quickly retrieve and analyze data from multiple tables--Back cover.

Learning PostgreSQL 10 Salahaldin Juba, Andrey Volkov. 2017-12-01 Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications. About This Book Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open

source databases in the world Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases Discover tips on implementing efficient database solutions with PostgreSQL 10 Who This Book Is For If you're interested in learning more about PostgreSQL - one of the most popular relational databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book. What You Will Learn Understand the fundamentals of relational databases, relational algebra, and data modeling Install a PostgreSQL cluster, create a database, and implement your data model Create tables and views, define indexes, and implement triggers, stored procedures, and other schema objects Use the Structured Query Language (SQL) to manipulate data in the database Implement business logic on the server side with triggers and stored procedures using PL/pgSQL Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others Develop OLAP database solutions using the most recent features of PostgreSQL 10 Connect your Python applications to a PostgreSQL database and work with the data efficiently Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applications In Detail PostgreSQL is one of the most popular open source databases in the world, and supports the most advanced features included in SQL standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch. We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects. Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects. By the end of this book, you'll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions. Style and approach This book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

Learn JDBC The Hard Way: A Hands-On Guide to PostgreSQL and SQL Server Driven Programming
Vivian Siahaan, Rismon Hasiholan Sianipar. 2019-11-23 This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to PostgreSQL and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from PostgreSQL and SQL Server. As you would expect, this book shows how to build from scratch two different databases: PostgreSQL and SQL Server using Java. In designing a GUI and as an IDE, you will make use of the NetBeans tool. In chapter one, you will learn: How to install NetBeans, JDK 11, and the PostgreSQL connector; How to integrate external libraries into projects; How the basic PostgreSQL commands are used; How to query statements to create databases, create tables, fill tables, and manipulate table contents is done. In chapter two, you will learn querying data from the postgresql using jdbc including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using jdbc, updating data in postgresql database using jdbc, calling postgresql stored function using jdbc, deleting data from a postgresql table using jdbc, and postgresql jdbc transaction. In chapter three, you will learn the basics of cryptography using Java. Here, you will learn how to write a Java program to count Hash, MAC (Message Authentication Code), store keys in a KeyStore, generate PrivateKey and PublicKey,

encrypt / decrypt data, and generate and verify digital prints. You will also learn how to create and store salt passwords and verify them. In chapter four, you will create a PostgreSQL database, named Bank, and its tables. In chapter five, you will create a Login table. In this case, you will see how to create a Java GUI using NetBeans to implement it. In addition to the Login table, in this chapter you will also create a Client table. In the case of the Client table, you will learn how to generate and save public and private keys into a database. You will also learn how to encrypt / decrypt data and save the results into a database. In chapter six, you will create an Account table. This account table has the following ten fields: `account_id` (primary key), `client_id` (primarykey), `account_number`, `account_date`, `account_type`, `plain_balance`, `cipher_balance`, `decipher_balance`, `digital_signature`, and `signature_verification`. In this case, you will learn how to implement generating and verifying digital prints and storing the results into a database. In chapter seven, you create a table named `Client_Data`, which has seven columns: `client_data_id` (primary key), `account_id` (primary_key), `birth_date`, `address`, `mother_name`, `telephone`, and `photo_path`. In chapter eight, you will be taught how to create a SQL Server database, named Crime, and its tables. In chapter nine, you will be taught how to extract image features, utilizing `BufferedImage` class, in Java GUI. In chapter ten, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data. This table has eleven columns: `suspect_id` (primary key), `suspect_name`, `birth_date`, `case_date`, `report_date`, `suspect_status`, `arrest_date`, `mother_name`, `address`, `telephone`, and `photo`. In chapter eleven, you will be taught to create Java GUI to view, edit, insert, and delete `Feature_Extraction` table data. This table has eight columns: `feature_id` (primary key), `suspect_id` (foreign key), `feature1`, `feature2`, `feature3`, `feature4`, `feature5`, and `feature6`. In chapter twelve, you will add two tables: `Police_Station` and `Investigator`. These two tables will later be joined to Suspect table through another table, `File_Case`, which will be built in the seventh chapter. The `Police_Station` has six columns: `police_station_id` (primary key), `location`, `city`, `province`, `telephone`, and `photo`. The `Investigator` has eight columns: `investigator_id` (primary key), `investigator_name`, `rank`, `birth_date`, `gender`, `address`, `telephone`, and `photo`. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In chapter thirteen, you will add two tables: `Victim` and `File_Case`. The `File_Case` table will connect four other tables: `Suspect`, `Police_Station`, `Investigator` and `Victim`. The `Victim` table has nine columns: `victim_id` (primary key), `victim_name`, `crime_type`, `birth_date`, `crime_date`, `gender`, `address`, `telephone`, and `photo`. The `File_Case` has seven columns: `file_case_id` (primary key), `suspect_id` (foreign key), `police_station_id` (foreign key), `investigator_id` (foreign key), `victim_id` (foreign key), `status`, and `description`. Here, you will also design a Java GUI to display, edit, fill, and delete data in both tables. Finally, this book is hopefully useful and can improve database programming skills for every Java/PostgreSQL/SQL Server programmer.

PostgreSQL 11 Administration Cookbook Simon Riggs, Gianni Ciolli, Sudheer Kumar

Meesala.2019-05-03 A practical guide to administer, monitor and replicate your PostgreSQL 11 database Key Features Study and apply the newly introduced features in PostgreSQL 11 Tackle any problem in PostgreSQL 11 administration and management Catch up on expert techniques for monitoring, fine-tuning, and securing your database Book Description PostgreSQL is a powerful, open source database management system with an enviable reputation for high performance and stability. With many new features in its arsenal, PostgreSQL 11 allows you to scale up your PostgreSQL infrastructure. This book takes a step-by-step, recipe-based approach to effective PostgreSQL administration. The book will introduce you to new features such as logical replication, native table partitioning, additional query parallelism, and much more to help you to understand and control, crash recovery and plan backups. You will learn how to tackle a variety of problems and pain points for any database administrator such as creating tables, managing views, improving performance, and securing your database. As you make steady progress, the book will draw attention to important topics such as monitoring roles, backup, and recovery of your PostgreSQL 11 database to help you understand roles and produce a summary of log files, ensuring high availability, concurrency, and replication. By the end of this book, you will have the necessary knowledge to manage your PostgreSQL 11 database efficiently. What you will learn Troubleshoot open source

PostgreSQL version 11 on various platforms Deploy best practices for planning and designing live databases Select and implement robust backup and recovery techniques in PostgreSQL 11 Use pgAdmin or OmniDB to perform database administrator (DBA) tasks Adopt efficient replication and high availability techniques in PostgreSQL Improve the performance of your PostgreSQL solution Who this book is for This book is designed for database administrators, data architects, database developers, or anyone with an interest in planning and running live production databases using PostgreSQL 11. It is also ideal if you're looking for hands-on solutions to any problem associated with PostgreSQL 11 administration. Some experience with handling PostgreSQL databases will be beneficial

Learn JDBC By Example: A Quick Start Guide to MariaDB and SQL Server Driven

Programming Vivian Siahaan, Rismon Hasiholan Sianipar. 2019-11-24 This book explains relational theory in practice, and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases. This book covers the important requirements of teaching databases with a practical and progressive perspective. This book offers the straightforward, practical answers you need to help you do your job. This hands-on tutorial/reference/guide to MariaDB and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from MariaDB and SQL Server. As you would expect, this book shows how to build from scratch two different databases: MariaDB and SQL Server using Java. In designing a GUI and as an IDE, you will make use of the NetBeans tool. In chapter one, you will learn the basics of cryptography using Java. Here, you will learn how to write a Java program to count Hash, MAC (Message Authentication Code), store keys in a KeyStore, generate PrivateKey and PublicKey, encrypt / decrypt data, and generate and verify digital prints. You will also learn how to create and store salt passwords and verify them. In chapter two, you will create a PostgreSQL database, named Bank, and its tables. In chapter three, you will create a Login table. In this case, you will see how to create a Java GUI using NetBeans to implement it. In addition to the Login table, in this chapter you will also create a Client table. In the case of the Client table, you will learn how to generate and save public and private keys into a database. You will also learn how to encrypt / decrypt data and save the results into a database. In chapter four, you will create an Account table. This account table has the following ten fields: account_id (primary key), client_id (primary key), account_number, account_date, account_type, plain_balance, cipher_balance, decipher_balance, digital_signature, and signature_verification. In this case, you will learn how to implement generating and verifying digital prints and storing the results into a database. In chapter five, you create a table named Client_Data, which has seven columns: client_data_id (primary key), account_id (primary key), birth_date, address, mother_name, telephone, and photo_path. In chapter six, you will be taught how to create a SQL Server database, named Crime, and its tables. In chapter seven, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. In chapter eight, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_status, arrest_date, mother_name, address, telephone, and photo. In chapter nine, you will be taught to create Java GUI to view, edit, insert, and delete Feature_Extraction table data. This table has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. In chapter ten, you will add two tables: Police_Station and Investigator. These two tables will later be joined to Suspect table through another table, File_Case, which will be built in the seventh chapter. The Police_Station has six columns: police_station_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone, and photo. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In chapter eleven, you will add two tables: Victim and File_Case. The File_Case table will connect four other tables: Suspect, Police_Station, Investigator and Victim. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The File_Case has seven columns: file_case_id

(primary key), suspect_id (foreign key), police_station_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. Here, you will also design a Java GUI to display, edit, fill, and delete data in both tables. Finally, this book is hopefully useful and can improve database programming skills for every Java/MariaDB/SQL Server programmer.

PostgreSQL 9.0 Official Documentation - Volume III. Server Programming PostgreSQL Global Development Group, The PostgreSQL Global Development Group. 2011-03 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.

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 Features Monitor, secure, and fine-tune your PostgreSQL 11 database Learn client-side and server-side programming using SQL and PL/pgSQL Discover tips on implementing efficient database solutions Book 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 learn Understand the basics of relational databases, relational algebra, and data modeling Install a PostgreSQL server, create a database, and implement your data model Create tables and views, define indexes and stored procedures, and implement triggers Make use of advanced data types such as Arrays, hstore, and JSONB Connect your Python applications to PostgreSQL and work with data efficiently Identify bottlenecks to enhance reliability and performance of database applications Who 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.

The Ultimate Guide to Professional Database Programming with Python and PostgreSQL Vivian Siahaan, Rismon Hasiholan Sianipar. 2019-01-15 Python has various database drivers for PostgreSQL. Currently, the psycopg is the most popular PostgreSQL database adapter for the Python language. The psycopg fully implements the Python DB-API 2.0 specification. The current version of the psycopg is 2 or psycopg2. The psycopg2 database adapter implemented in C as a libpq wrapper resulting in both fast and secure. The psycopg2 provides many useful features such as client-side and server-side cursors, asynchronous notification and communication, COPY command support, etc. PostgreSQL was designed to run on UNIX-like platforms. However, PostgreSQL was then also designed to be portable so that it could run on various platforms such as Mac OS X, Solaris, and Windows. PostgreSQL is free and open source software. Its source code is available under PostgreSQL license, a liberal open source license. You are free to use, modify and distribute PostgreSQL in any form. PostgreSQL requires very minimum maintained efforts because of its stability. Therefore, if you develop applications based on PostgreSQL, the total cost of ownership is low in comparison with other database management systems. In Chapter 2, you will learn querying data from the postgresql using Python including establishing a database connection, creating a

statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using Python, updating data in postgresql database using Python, calling postgresql stored function using Python, deleting data from a postgresql table using Python, and postgresql Python transaction. In Chapter 3, you will learn managing table structure and views including postgresql data types, postgresql create table, postgresql select into statement, postgresql create table as, using postgresql serial to create auto-increment column, identity column, alter table, drop table, truncate table, check constraint, not-null constraint, foreign key, primary key, unique constraint, managing postgresql views, creating updatable views, materialized views, creating updatable views using the with check option clause, and recursive view. In Chapter 4, you will learn statements, operators, and clauses including select, order by, select distinct, limit, fetch, in, between, postgresql like, is null, alias, joins, inner join, postgresql left join, self-join, full outer join, cross join, natural join, group by, having, intersect operator, except operator, grouping sets, cube, and rollup. In Chapter 5, you will learn postgresql trigger, aggregate, and string functions including creating the first trigger in postgresql, managing postgresql trigger, aggregate functions, avg function, max function, min function, sum function, postgresql concat function, ascii function, trim function, length function, substring function, regexp_matches function, regexp_replace function, replace function, to_number function, and to_char function.

PostgreSQL: Up and Running Regina O. Obe, Leo S. Hsu. 2012-07-06 Thinking of migrating to PostgreSQL? This updated guide helps you quickly understand and use the 9.3 release of this open source database system. You'll not only learn about its unique enterprise-class features, but also discover that PostgreSQL is more than just a database system—it's also an impressive application platform. Using numerous examples, this book shows you how to achieve tasks that are difficult or impossible in other databases. The second edition covers LATERAL queries, augmented JSON support, materialized views, and other key topics. If you're an existing PostgreSQL user, you'll pick up gems you may have missed along the way. Learn basic administration tasks, such as role management, database creation, backup, and restore Apply the psql command-line utility and the pgAdmin graphical administration tool Explore PostgreSQL tables, constraints, and indexes Learn powerful SQL constructs not generally found in other databases Use several different languages to write database functions Tune your queries to run as fast as your hardware will allow Query external and variegated data sources with Foreign Data Wrappers Learn how to replicate data, using built-in replication features

Learning PostgreSQL 10 - Second Edition Salahaldin Juba, Andrey Volkov. 2017-11-28 Leverage the power of PostgreSQL 10 to build powerful database and data warehousing applications. About This Book* Be introduced to the concept of relational databases and PostgreSQL, one of the fastest growing open source databases in the world* Learn client-side and server-side programming in PostgreSQL, and how to administer PostgreSQL databases* Discover tips on implementing efficient database solutions with PostgreSQL 10 Who This Book Is For If you're interested in learning more about PostgreSQL - one of the most popular relational databases in the world, then this book is for you. Those looking to build solid database or data warehousing applications with PostgreSQL 10 will also find this book a useful resource. No prior knowledge of database programming or administration is required to get started with this book. What You Will Learn* Understand the fundamentals of relational databases, relational algebra, and data modeling* Install a PostgreSQL cluster, create a database, and implement your data model* Create tables and views, define indexes, and implement triggers, stored procedures, and other schema objects* Use the Structured Query Language (SQL) to manipulate data in the database* Implement business logic on the server side with triggers and stored procedures using PL/pgSQL* Make use of advanced data types supported by PostgreSQL 10: Arrays, hstore, JSONB, and others* Develop OLAP database solutions using the most recent features of PostgreSQL 10* Connect your Python applications to a PostgreSQL database and work with the data efficiently* Test your database code, find bottlenecks, improve performance, and enhance the reliability of the database applications In Detail PostgreSQL is one of the most

popular open source databases in the world, and supports the most advanced features included in SQL standards and beyond. This book will familiarize you with the latest new features released in PostgreSQL 10, and get you up and running with building efficient PostgreSQL database solutions from scratch. We'll start with the concepts of relational databases and their core principles. Then you'll get a thorough introduction to PostgreSQL and the new features introduced in PostgreSQL 10. We'll cover the Data Definition Language (DDL) with an emphasis on PostgreSQL, and the common DDL commands supported by ANSI SQL. You'll learn to create tables, define integrity constraints, build indexes, and set up views and other schema objects. Moving on, you'll get to know the concepts of Data Manipulation Language (DML) and PostgreSQL server-side programming capabilities using PL/pgSQL. This will give you a very robust background to develop, tune, test, and troubleshoot your database application. We'll also explore the NoSQL capabilities of PostgreSQL and connect to your PostgreSQL database to manipulate data objects. By the end of this book, you'll have a thorough understanding of the basics of PostgreSQL 10 and will have the necessary skills to build efficient database solutions. Style and approach This book is a comprehensive beginner level tutorial on PostgreSQL and introduces the features of the newest version 10, along with explanation of concepts in a very easy to understand manner. Practical tips and examples are provided at every step to ensure you are able to grasp each topic as quickly as possible.

PostgreSQL 11 Server Side Programming Quick Start Guide Luca Ferrari. 2018-11-29 Extend PostgreSQL using PostgreSQL server programming to create, test, debug, and optimize a range of user-defined functions in your favorite programming language Key Features Learn the concepts of PostgreSQL 11 with lots of real-world datasets and examples Learn queries, data replication, and database performance Extend the functionalities of your PostgreSQL instance to suit your organizational needs Book Description 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. This book shows you how to take advantage of PostgreSQL 11 features for server-side programming. Server-side programming enables strong data encapsulation and coherence. The book begins with the importance of server-side programming and explains the risks of leaving all the checks outside the database. To build your capabilities further, you will learn how to write stored procedures, both functions and the new PostgreSQL 11 procedures, and create triggers to perform encapsulation and maintain data consistency. You will also learn how to produce extensions, the easiest way to package your programs for easy and solid deployment on different PostgreSQL installations. What you will learn Explore data encapsulation Write stored procedures in different languages Interact with transactions from within a function Get to grips with triggers and rules Create and manage custom data types Create extensions to package code and data Implement background workers and Inter-Process Communication (IPC) How to deal with foreign languages, in particular Java and Perl Who this book is for This book is for database administrators, data engineers, and database engineers who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 11.

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 Korry Douglas, Susan Douglas. 2003 PostgreSQL is the world's most advanced open-source database. PostgreSQL is the most comprehensive, in-depth, and easy-to-read guide to this award-winning database. This book starts with a thorough overview of SQL, a description of all PostgreSQL data types, and a complete explanation of PostgreSQL commands. If you are a developer or an administrator, you'll love the chapter that explores PostgreSQL performance. The authors explain how PostgreSQL stores data on disk (and in memory) and how to measure and influence the effectiveness of PostgreSQL's caching mechanisms. You'll also learn how PostgreSQL generates and evaluates execution plans. The authors explain all of the query operators that can appear in the results of an EXPLAIN command, describing the performance implications of each operator as well

as the conditions which will cause PostgreSQL to use that operator. PostgreSQL is also a complete guide for the developer. Whether you're developing with C, C++, ODBC, Embedded SQL, Java, Tcl/Tk, Perl, Python or PHP, you'll find a comprehensive description of the PostgreSQL API for your language of choice. Easy to follow exercises will walk you through the development of working applications that fully demonstrate the features offered by each API. You will also find a chapter that describes the PL/pgSQL server-side procedural language, learning how to build triggers, functions, and stored-procedures. The authors have even included a chapter that walks you through the process of extending the PostgreSQL server with custom-written C functions and new data types. The accompanying web site, www.conjectrix.com, contains downloadable versions of all of the sample code and a wealth of PostgreSQL-related resources. The last section of PostgreSQL was written for the PostgreSQL administrator. You will learn how to install PostgreSQL on Windows, Linux, and Unix systems, from source code or from pre-compiled installers. The authors have described all of the PostgreSQL configuration options (compile-time, startup, and on-the-fly). The chapter on PostgreSQL security describes all of the authentication protocols that you can choose from and describes how to secure your database, both internally and externally. If you have to support a multi-national environment, you will find the chapter on internationalization and localization to be invaluable. You won't find a more complete guide to PostgreSQL anywhere. The authors have made PostgreSQL approachable by leadin ...

Web Development with Node and Express Ethan Brown.2014-07 Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

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Postgresql 11 Server Side Programming Quick Start Introduction

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