

Mastering Postgresql In Application Development

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Single Page Web Applications - Michael Mikowski 2013-09-19

Summary In Single Page Web Applications you'll learn to build modern browser-based apps that take advantage of stronger client platforms and more predictable bandwidth. You'll learn the SPA design approach, and then start exploring new techniques like structured JavaScript and responsive design. And you'll learn how to capitalize on trends like server-side JavaScript and NoSQL data stores, as well as new frameworks that make JavaScript more manageable and testable as a first-class language. About this Book If your website is a jumpy collection of linked pages, you are behind. Single page web applications are your next step: pushing UI rendering and business logic to the browser and communicating with the server only to synchronize data, they provide a smooth user experience, much like a native application. But, SPAs can be hard to develop, manage, and test. Single Page Web Applications shows how your team can easily design, test, maintain, and extend sophisticated SPAs using JavaScript end-to-end, without getting locked into a framework. Along the way, you'll develop advanced HTML5, CSS3, and JavaScript skills, and use JavaScript as the language of the web server and the database. This book assumes basic knowledge of web development. No experience with SPAs is required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Design, build, and test a full-stack SPA Best-in-class tools like jQuery, TaffyDB, Node.js, and

MongoDB Real-time web with web sockets and Socket.IO Touch controls for tablets and smartphones Common SPA design mistakes About the Authors The authors are architects and engineering managers. Michael Mikowski has worked on many commercial SPAs and a platform that processes over 100 billion requests per year. Josh Powell has built some of the most heavily trafficked sites on the web. Table of Contents PART 1: INTRODUCING SPAS Our first single page application Reintroducing JavaScript PART 2: SPA CLIENT Develop the Shell Add feature modules Build the Model Finish the Model and Data modules PART 3: THE SPA SERVER The web server The server database Readying our SPA for production [Learning PostgreSQL 11](#) - Salahaldin Juba 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.

Learning SQL - Alan Beaulieu 2009-04-11 Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, *Learning SQL, Second Edition*, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and

annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With *Learning SQL*, you'll quickly learn how to put the power and flexibility of this language to work.

Mastering Python - Rick van Hattem 2016-04-29 Master the art of writing beautiful and powerful Python by using all of the features that Python 3.5 offers About This Book Become familiar with the most important and advanced parts of the Python code style Learn the trickier aspects of Python and put it in a structured context for deeper understanding of the language Offers an expert's-eye overview of how these advanced tasks fit together in Python as a whole along with practical examples Who This Book Is For Almost anyone can learn to write working script and create high quality code but they might lack a structured understanding of what it means to be 'Pythonic'. If you are a Python programmer who wants to code efficiently by getting the syntax and usage of a few intricate Python techniques exactly right, this book is for you. What You Will Learn Create a virtualenv and start a new project Understand how and when to use the functional programming paradigm Get familiar with the different ways the decorators can be written in Understand the power of generators and coroutines without digressing into lambda calculus Create metaclasses and how it makes working with Python far easier Generate HTML documentation out of documents and code using Sphinx Learn how to track and optimize application performance, both memory and cpu Use the multiprocessing library, not just locally but also across multiple machines Get a basic understanding of packaging and creating your own libraries/applications In Detail Python is a dynamic programming language. It is known for

its high readability and hence it is often the first language learned by new programmers. Python being multi-paradigm, it can be used to achieve the same thing in different ways and it is compatible across different platforms. Even if you find writing Python code easy, writing code that is efficient, easy to maintain, and reuse is not so straightforward. This book is an authoritative guide that will help you learn new advanced methods in a clear and contextualised way. It starts off by creating a project-specific environment using `venv`, introducing you to different Pythonic syntax and common pitfalls before moving on to cover the functional features in Python. It covers how to create different decorators, generators, and metaclasses. It also introduces you to `functools.wraps` and `coroutines` and how they work. Later on you will learn to use `asyncio` module for asynchronous clients and servers. You will also get familiar with different testing systems such as `py.test`, `doctest`, and `unittest`, and debugging tools such as Python debugger and `faulthandler`. You will learn to optimize application performance so that it works efficiently across multiple machines and Python versions. Finally, it will teach you how to access C functions with a simple Python call. By the end of the book, you will be able to write more advanced scripts and take on bigger challenges.

Style and Approach This book is a comprehensive guide that covers advanced features of the Python language, and communicate them with an authoritative understanding of the underlying rationale for how, when, and why to use them.

[SQL Server 2016 Developer's Guide](#) - Dejan Sarka 2017-03-22

Get the most out of the rich development capabilities of SQL Server 2016 to build efficient database applications for your organization

About This Book Utilize the new enhancements in Transact-SQL and security features in SQL Server 2016 to build efficient database applications

Work with temporal tables to get information about data stored in the table at any point in time

A detailed guide to SQL Server 2016, introducing you to multiple new features and enhancements to improve your overall development experience

Who This Book Is For This book is for database developers and

solution architects who plan to use the new SQL Server 2016 features for developing efficient database applications. It is also ideal for experienced SQL Server developers who want to switch to SQL Server 2016 for its rich development capabilities. Some understanding of the basic database concepts and Transact-SQL language is assumed.

What You Will Learn

- Explore the new development features introduced in SQL Server 2016
- Identify opportunities for In-Memory OLTP technology, significantly enhanced in SQL Server 2016
- Use columnstore indexes to get significant storage and performance improvements
- Extend database design solutions using temporal tables
- Exchange JSON data between applications and SQL Server in a more efficient way
- Migrate historical data transparently and securely to Microsoft Azure by using Stretch Database
- Use the new security features to encrypt or to have more granular control over access to rows in a table
- Simplify performance troubleshooting with Query Store
- Discover the potential of R's integration with SQL Server

In Detail Microsoft SQL Server 2016 is considered the biggest leap in the data platform history of the Microsoft, in the ongoing era of Big Data and data science. Compared to its predecessors, SQL Server 2016 offers developers a unique opportunity to leverage the advanced features and build applications that are robust, scalable, and easy to administer. This book introduces you to new features of SQL Server 2016 which will open a completely new set of possibilities for you as a developer. It prepares you for the more advanced topics by starting with a quick introduction to SQL Server 2016's new features and a recapitulation of the possibilities you may have already explored with previous versions of SQL Server. The next part introduces you to small delights in the Transact-SQL language and then switches to a completely new technology inside SQL Server - JSON support. We also take a look at the Stretch database, security enhancements, and temporal tables. The last chapters concentrate on implementing advanced topics, including Query Store, columnstore indexes, and In-Memory OLTP. You will finally be introduced to R and how to use the R language with Transact-SQL for data exploration and analysis. By the end of this book, you will have the required information

to design efficient, high-performance database applications without any hassle. Style and approach This book is a detailed guide to mastering the development features offered by SQL Server 2016, with a unique learn-as-you-do approach. All the concepts are explained in a very easy-to-understand manner and are supplemented with examples to ensure that you—the developer—are able to take that next step in building more powerful, robust applications for your organization with ease. *PostgreSQL Replication* - Hans-Jürgen Schönig 2015-07-28

PostgreSQL offers a comprehensive set of replication related features. Unleashing the power of PostgreSQL provides you with countless opportunities and a competitive advantage over other database systems. This book will guide you through the most important concepts of PostgreSQL replication. It contains all the information you need to design and operate replicated setups. Beginning by giving you an understanding of replication concepts, the PostgreSQL transaction log, and Point-in-time Recovery, we gradually move on to setting up asynchronous and synchronous replication. Next up, you will learn to monitor a PostgreSQL cluster setup, deal with monitoring tools, and then move on to understanding Linux High Availability. Further, we explore widely-used tools such as Slony, SkyTools, Postgres-XC, and walbouncer, and set up PL/Proxy. Finally, you'll get acquainted with the new technology of BDR, which allows bidirectional replication in PostgreSQL.

[Developing Modern Database Applications with PostgreSQL](#) - DR. QUAN HA. LE 2021-08-13
Get up to speed with core PostgreSQL tasks such as database administration, application development, database performance monitoring, and database testing Key Features: Build real-world enterprise database management systems using Postgres 12 features Explore the development, administrative and security aspects of PostgreSQL 12 Implement best practices from industry experts to build powerful database applications Book Description: PostgreSQL is an open-source object-relational database management system (DBMS) that provides enterprise-level services, including high performance and scalability. This book is a

collection of unique projects providing you with a wealth of information relating to administering, monitoring, and testing PostgreSQL. The focus of each project is on both the development and the administrative aspects of PostgreSQL. Starting by exploring development aspects such as database design and its implementation, you'll then cover PostgreSQL administration by understanding PostgreSQL architecture, PostgreSQL performance, and high-availability clusters. Various PostgreSQL projects are explained through current technologies such as DevOps and cloud platforms using programming languages like Python and Node.js. Later, you'll get to grips with the well-known database API tool, PostgREST, before learning how to use popular PostgreSQL database testing frameworks. The book is also packed with essential tips and tricks and common patterns for working seamlessly in a production environment. All the chapters will be explained with the help of a real-world case study on a small banking application for managing ATM locations in a city. By the end of this DBMS book, you'll be proficient in building reliable database solutions as per your organization's needs. What You Will Learn: Set up high availability PostgreSQL database clusters in the same containment, a cross-containment, and on the cloud Monitor the performance of a PostgreSQL database Create automated unit tests and implement test-driven development for a PostgreSQL database Develop PostgreSQL apps on cloud platforms using DevOps with Python and Node.js Write robust APIs for PostgreSQL databases using Python programming, Node.js, and PostgREST Create a geospatial database using PostGIS and PostgreSQL Implement automatic configuration by Ansible and Terraform for Postgres Who this book is for: This PostgreSQL book is for database developers, database administrators, data architects, or anyone who wants to build end-to-end database projects using Postgres. This book will also appeal to software engineers, IT technicians, computer science researchers, and university students who are interested in database development and administration. Some familiarity with PostgreSQL and Linux is required to grasp the concepts covered in the

book effectively.

Mastering Julia - Malcolm Sherrington

2015-07-22

Julia is a well-constructed programming language with fast execution speed, eliminating the classic problem of performing analysis in one language and translating it for performance into a second. This book will help you develop and enhance your programming skills in Julia to solve real-world automation challenges. This book starts off with a refresher on installing and running Julia on different platforms. Next, you will compare the different ways of working with Julia and explore Julia's key features in-depth by looking at design and build. You will see how data works using simple statistics and analytics, and discover Julia's speed, its real strength, which makes it particularly useful in highly intensive computing tasks and observe how Julia can cooperate with external processes in order to enhance graphics and data visualization. Finally, you will look into meta-programming and learn how it adds great power to the language and establish networking and distributed computing with Julia.

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 Features Grasp advanced PostgreSQL 12 concepts with real-world examples and sample datasets Explore query parallelism, data replication, database administration, and more Extend PostgreSQL functionalities to suit your organization's needs with minimal effort Book 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 queries 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 learn Understand the advanced SQL functions in PostgreSQL 12 Use indexing features in PostgreSQL to fine-tune the performance of queries Work with stored procedures and manage backup and recovery Master replication and failover techniques to reduce data loss Replicate PostgreSQL database systems to create backups and to scale your database Manage and improve the security of your server to protect your data Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Who 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.

Web Database Applications with PHP and MySQL - Hugh E. Williams 2002

Combines language tutorials with application design advice to cover the PHP server-side scripting language and the MySQL database engine.

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 Features Master advanced PostgreSQL 13 concepts with the help of real-world datasets and examples Leverage 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.

Flask Web Development - Miguel Grinberg
2018-03-05

Take full creative control of your web applications with Flask, the Python-based microframework. With the second edition of this hands-on book, you'll learn the framework from the ground up by developing, step-by-step, a real-world project created by author Miguel Grinberg. This refreshed edition accounts for important technology changes that have occurred in the past three years. You'll learn the framework's core functionality, as well as how to extend applications with advanced web techniques such as database migration and web service communication. The first part of each chapter provides you with reference and background for the topic in question, while the second part guides you through a hands-on implementation of the topic. If you have Python experience, this book shows you how to take advantage of the creative freedom Flask provides.

PostgreSQL Query Optimization - Henrietta Dombrovskaya 2021-05-27

Write optimized queries. This book helps you write queries that perform fast and deliver results on time. You will learn that query optimization is not a dark art practiced by a small, secretive cabal of sorcerers. Any motivated professional can learn to write efficient queries from the get-go and capably optimize existing queries. You will learn to look at the process of writing a query from the database engine's point of view, and know how to think like the database optimizer. The book begins with a discussion of what a performant system is and progresses to measuring performance and setting performance goals. It introduces different classes of queries and optimization techniques suitable to each, such as the use of indexes and specific join algorithms. You will learn to read and understand query execution plans along with techniques for influencing those plans for better performance. The book also covers advanced topics such as the use of functions and procedures, dynamic

SQL, and generated queries. All of these techniques are then used together to produce performant applications, avoiding the pitfalls of object-relational mappers. What You Will Learn Identify optimization goals in OLTP and OLAP systems Read and understand PostgreSQL execution plans Distinguish between short queries and long queries Choose the right optimization technique for each query type Identify indexes that will improve query performance Optimize full table scans Avoid the pitfalls of object-relational mapping systems Optimize the entire application rather than just database queries Who This Book Is For IT professionals working in PostgreSQL who want to develop performant and scalable applications, anyone whose job title contains the words "database developer" or "database administrator" or who is a backend developer charged with programming database calls, and system architects involved in the overall design of application systems running against a PostgreSQL database

PostgreSQL Configuration - Baji Shaik
2020-03-16

Obtain all the skills you need to configure and manage a PostgreSQL database. In this book you will begin by installing and configuring PostgreSQL on a server by focusing on system-level parameter settings before installation. You will also look at key post-installation steps to avoid issues in the future. The basic configuration of PostgreSQL is tuned for compatibility rather than performance. Keeping this in mind, you will fine-tune your PostgreSQL parameters based on your environment and application behavior. You will then get tips to improve database monitoring and maintenance followed by database security for handling sensitive data in PostgreSQL. Every system containing valuable data needs to be backed-up regularly. PostgreSQL follows a simple back-up procedure and provides fundamental approaches to back up your data. You will go through these approaches and choose the right one based on your environment. Running your application with limited resources can be tricky. To achieve this you will implement a pooling mechanism for your PostgreSQL instances to connect to other databases. Finally, you will take a look at some basic errors faced while working with

PostgreSQL and learn to resolve them in the quickest manner. What You Will Learn Configure PostgreSQL for performance Monitor and maintain PostgreSQL instances Implement a backup strategy for your data Resolve errors faced while using PostgreSQL Who This Book Is For Readers with basic knowledge of PostgreSQL who wish to implement key solutions based on their environment.

Mastering CloudForms Automation - Peter McGowan 2016-08-22

Learn how to work with the Automate feature of CloudForms, the powerful Red Hat cloud management platform that lets you administer your virtual infrastructure, including hybrid public and private clouds. This practical hands-on introduction shows you how to increase your operational efficiency by automating day-to-day tasks that now require manual input.

Throughout the book, author Peter McGowan provides a combination of theoretical information and practical coding examples to help you learn the Automate object model. With this CloudForms feature, you can create auto-scalable cloud applications, eliminate manual decisions and operations when provisioning virtual machines and cloud instances, and manage your complete virtual machine lifecycle. In six parts, this book helps you: Learn the objects and concepts for developing automation scripts with CloudForms Automate Customize the steps and workflows involved in provisioning virtual machines Create and use service catalogs, items, dialogs, objects, bundles, and hierarchies Use CloudForm's updated workflow to retire and delete virtual machines and services Orchestrate and coordinate with external services as part of a workflow Explore distributed automation processing as well as argument passing and handling

Learn PostgreSQL - Luca Ferrari 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

scratchBook Description PostgreSQL is one of the fastest-growing open source object-relational database management systems (DBMS) in the world. As well as being easy to use, it's scalable and highly efficient. In this book, you'll explore PostgreSQL 12 and 13 and learn how to build database solutions using it. Complete with hands-on tutorials, this guide will teach you how to achieve the right database design required for a reliable environment. You'll learn how to install and configure a PostgreSQL server and even manage users and connections. The book then progresses to key concepts of relational databases, before taking you through the Data Definition Language (DDL) and commonly used DDL commands. To build on your skills, you'll understand how to interact with the live cluster, create database objects, and use tools to connect to the live cluster. You'll then get to grips with creating tables, building indexes, and designing your database schema. Later, you'll explore the Data Manipulation Language (DML) and server-side programming capabilities of PostgreSQL using PL/pgSQL, before learning how to monitor, test, and troubleshoot your database application to ensure high-performance and reliability. By the end of this book, you'll be well-versed with the Postgres database and be able to set up your own PostgreSQL instance and use it to build robust solutions. What you will 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.

The Language of SQL - Larry Rockoff

2016-07-26

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The Language of SQL, Second Edition Many SQL texts attempt to serve as an encyclopedic reference on SQL syntax -- an approach that is often counterproductive, because that information is readily available in online references published by the major database vendors. For SQL beginners, it's more important for a book to focus on general concepts and to offer clear explanations and examples of what various SQL statements can accomplish. This is that book. A number of features make The Language of SQL unique among introductory SQL books. First, you will not be required to download software or sit with a computer as you read the text. The intent of this book is to provide examples of SQL usage that can be understood simply by reading. Second, topics are organized in an intuitive and logical sequence. SQL keywords are introduced one at a time, allowing you to grow your understanding as you encounter new terms and concepts. Finally, this book covers the syntax of three widely used databases: Microsoft SQL Server, MySQL, and Oracle. Special "Database Differences" sidebars clearly show you any differences in syntax among these three databases, and instructions are included on how to obtain and install free versions of the databases. This is the only book you need to gain a quick working knowledge of SQL and relational databases. ·Learn How To... Use SQL to retrieve data from relational databases Apply functions and calculations to data Group and summarize data in a variety of useful ways Use complex logic to retrieve only the data you need Update data and create new tables Design relational databases so that data retrieval is easy and intuitive Use spreadsheets to transform your data into meaningful displays Retrieve data from multiple tables via joins, subqueries, views, and set logic Create, modify, and execute stored procedures Install Microsoft SQL Server, MySQL, or Oracle

Mastering ServiceStack - Andreas Niedermair

2015-10-28

Utilize ServiceStack as the rock solid foundation

of your distributed system About This Book Take advantage of the various data providers to access authentication and authorization, sessions, cache, and database Leverage asynchronous processing for decoupling components to ease scaling Monitor and tune the performance of your distributed system Who This Book Is For Mastering ServiceStack is targeted at developers who have already implemented web services with ASMX, WCF, or ServiceStack and want to gain more insight into the possibilities ServiceStack has to offer to build distributed systems of all scales. What You Will Learn Design a prudent and resilient API, following the RESTful design Understand the internal processing chain and utilize the provided hooks Incorporate ServiceStack as a full service provider to your existing distributed system Leverage the power of asynchronous processing and add message queues to your architecture Analyze and tune the performance of your service In Detail Mastering ServiceStack covers real-life problems that occur over the lifetime of a distributed system and how to solve them by deeply understanding the tools of ServiceStack. Distributed systems is the enterprise solution that provide flexibility, reliability, scaling, and performance. ServiceStack is an outstanding tool belt to create such a system in a frictionless manner, especially sophisticated designed and fun to use. The book starts with an introduction covering the essentials, but assumes you are just refreshing, are a very fast learner, or are an expert in building web services. Then, the book explains ServiceStack's data transfer object patterns and teach you how it differs from other methods of building web services with different protocols, such as SOAP and SOA. It also introduces more low-level details such as how to extend the User Auth, message queues and concepts on how the technology works. By the end of this book, you will understand the concepts, framework, issues, and resolutions related to ServiceStack. Style and approach A step-by-step approach that follows the natural requirements of a distributed system in a conversational style.

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.

Mastering Enterprise JavaBeans - Ed Roman 2004-12-22

Includes more than 30 percent revised material and five new chapters, covering the new 2.1 features such as EJB Timer Service and JMS as well as the latest open source Java solutions The book was developed as part of TheServerSide.com online EJB community, ensuring a built-in audience Demonstrates how to build an EJB system, program with EJB, adopt best practices, and harness advanced EJB concepts and techniques, including transactions, persistence, clustering, integration, and performance optimization Offers practical guidance on when not to use EJB and how to use simpler, less costly open source technologies in place of or in conjunction with EJB

Beginning jOOQ - Tayo Koleoso 2021-10-28

Learn to use the jOOQ library to manage SQL database operations in Java and JVM applications. This book walks you through what

jOOQ is, how to install and get started with it, and then gets you working with it. Practical examples and case studies demonstrate how jOOQ offers a more efficient and versatile alternative to Object-Relational Mapping frameworks like Hibernate and JPA, while providing a natural, native-SQL feeling for the developer. You'll see how to maximize the full potential of your SQL database with advanced query syntax and functions with this lightweight, SQL-friendly framework. Come see how you can use high performance approaches like reactive, data streaming and cloud-native programming to get data from SQL tables. Never write another incorrect SQL statement again and protect your application from SQL injection with the strong typing and inbuilt controls in jOOQ. Learn how to add jOOQ to your existing Hibernate, Spring Boot or Quarkus applications. When you've completed this book, you will be able to take the knowledge you've gained, along with the freely available source code, and directly apply them to your own work.

What You Will Learn

- Comparing equivalent features between Hibernate, JPA and jOOQ
- Unlock the power of your SQL database with high performing, flexible and typesafe SQL queries
- Seamlessly work with many different SQL database vendors without changing your code
- Effortlessly generate Java code based on the content of your database
- Write reactive SQL database access code with R2DBC
- Integrating jOOQ into popular frameworks and platforms like Hibernate, Spring boot and Quarkus
- tools like IDEs
- Testing jOOQ-based code with modern integration testing frameworks like TestContainers and Docker
- Learn how to safely handle data access code within frameworks like the Java Persistence API (JPA)

Who This Book Is For

Intermediate Java programmers new to jOOQ. Some prior experience with SQL may be helpful but not required.

Odoo 14 Development Cookbook - Parth Gajjar 2020-12-24

With over 200 recipes covering real-world examples, take your Odoo development skills to the next level and solve complex business problems using this guide

Key Features

- Learn to develop new modules and modify existing modules using the Odoo framework
- Explore key concepts of the Odoo framework to build robust business applications
- Create dynamic

websites with snippets and learn to deploy an Odoo instance on the server or Odoo.sh

Book Description

With its latest iteration, the powerful Odoo framework released a wide variety of features for rapid application development. This updated Odoo development cookbook will help you explore the new features in Odoo 14 and learn how to use them to develop Odoo applications from scratch. You'll learn about the new website concepts in Odoo 14 and get a glimpse of Odoo's new web-client framework, the Odoo Web Library (OWL). Once you've completed the installation, you'll begin to explore the Odoo framework with real-world examples. You'll then create a new Odoo module from the ground up and progress to advanced framework concepts. You'll also learn how to modify existing applications, including Point of Sale (POS) applications. This book isn't just limited to backend development; you'll discover advanced JavaScript recipes for creating new views and widgets. As you progress, you'll learn about website development and become a quality Odoo developer by studying performance optimization, debugging, and automated testing. Finally, you'll delve into advanced concepts such as multi-website, In-App Purchasing (IAP), Odoo.sh, the IoT Box, and security. By the end of the book, you'll have all the knowledge you need to build impressive Odoo applications and you'll be well versed in development best practices that will come in handy when working with the Odoo framework.

What you will learn

- Build beautiful websites with Odoo CMS using dynamic building blocks
- Get to grips with advanced concepts such as caching, prefetching, debugging
- Modify backend JavaScript components and POS applications with the new OWL framework
- Connect and access any object in Odoo via Remote Procedure Calls (RPC)
- Manage, deploy, and test an Odoo instance with Odoo.sh
- Configure IoT Box to add and upgrade Point of Sale (POS) hardware
- Find out how to implement in-app purchase services

Who this book is for

This book is suitable for both newcomers and experienced Odoo developers who want to develop a highly efficient business application with the Odoo framework. Basic knowledge of Python and JavaScript is necessary to get the most out of the book.

Table of Contents

- Installing the Odoo

Development Environment • Managing Odoo Server Instances • Creating Odoo Add-On Modules • Application Models • Basic Server-Side Development • Managing Module Data • Debugging Modules • Advanced Server-Side Development Techniques • Backend Views • Security Access • Internationalization • Automation, Workflows, Emails, and Printing • Web Server Development • CMS Website Development • Web Client Development • The Odoo Web Library (OWL) • In-App Purchasing with Odoo • Automated Test Cases • Managing, Deploying, and Testing with Odoo.sh • Remote Procedure Calls In Odoo • Performance Optimization • Point of Sale • Managing Emails in Odoo • Managing IoT Box

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.

Full-Stack React Projects - Shama Hoque 2020-04-17

This book is an updated and improved project-based guide to help you extend the capabilities

of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects.

PostgreSQL: Up and Running - Regina O. Obe 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

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 administrating a PostgreSQL database and a working knowledge of SQL are required to make the best use of this book.

PostgreSQL 13 Cookbook - Vallarapu Naga Avinash Kumar 2021-02-26

Get to grips with building reliable, scalable, and maintainable database solutions for enterprises and production databases Key Features Implement PostgreSQL 13 features to perform end-to-end modern database management Design, manage, and build enterprise database solutions using a unique recipe-based approach Solve common and not-so-common challenges faced while working to achieve optimal database performance Book Description PostgreSQL has become the most advanced open source database on the market.

This book follows a step-by-step approach, guiding you effectively in deploying PostgreSQL in production environments. The book starts with an introduction to PostgreSQL and its architecture. You'll cover common and not-so-common challenges faced while designing and managing the database. Next, the book focuses on backup and recovery strategies to ensure your database is steady and achieves optimal performance. Throughout the book, you'll address key challenges such as maintaining reliability, data integrity, a fault-tolerant environment, a robust feature set, extensibility, consistency, and authentication. Moving ahead, you'll learn how to manage a PostgreSQL cluster and explore replication features for high availability. Later chapters will assist you in building a secure PostgreSQL server, along with covering recipes for encrypting data in motion and data at rest. Finally, you'll not only discover how to tune your database for optimal performance but also understand ways to monitor and manage maintenance activities, before learning how to perform PostgreSQL upgrades during downtime. By the end of this book, you'll be well-versed with the essential PostgreSQL 13 features to build enterprise relational databases. What you will learn Understand logical and physical backups in Postgres Demonstrate the different types of replication methods possible with PostgreSQL today Set up a high availability cluster that provides seamless automatic failover for applications Secure a PostgreSQL encryption through authentication, authorization, and auditing Analyze the live and historic activity of a PostgreSQL server Understand how to monitor critical services in Postgres 13 Manage maintenance activities and performance tuning of a PostgreSQL cluster Who this book is for This PostgreSQL book is for database architects, database developers and administrators, or anyone who wants to become well-versed with PostgreSQL 13 features to plan, manage, and design efficient database solutions. Prior experience with the PostgreSQL database and SQL language is expected.

PostgreSQL Server Programming - Second Edition - Usama Dar 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 10 High Performance - Enrico Pirozzi 2018-04-30

PostgreSQL is increasingly utilized in all kind of applications, starting from desktop to web and mobile applications. In this book, you will find the best ways to design, monitor and maintain your PostgreSQL solution, with suggestions and tips for high performance, troubleshooting and high availability.

Mastering PostgreSQL in Application

Development - Dimitri Fontaine 2017-11-05

Mastering PostgreSQL in Application

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

Beginning PostgreSQL on the Cloud - Baji Shaik 2018-03-19

Get started with PostgreSQL on the cloud and discover the advantages, disadvantages, and limitations of the cloud services from Amazon, Rackspace, Google, and Azure. Once you have chosen your cloud service, you will focus on securing it and developing a back-up strategy for your PostgreSQL instance as part of your long-term plan. Beginning PostgreSQL on the Cloud covers other essential topics such as setting up replication and high availability; encrypting your saved cloud data; creating a connection pooler for your database; and monitoring PostgreSQL on the cloud. The book concludes by showing you how to install and configure some of the tools that will help you get started with PostgreSQL on the cloud. This book shows you how database as a service enables you to spread your data across multiple data centers, ensuring that it is always accessible. You'll discover that this model does not expect you to install and maintain databases yourself because the database service provider does it for you. You no longer have to worry about the scalability and high availability of your database. What You Will

Learn Migrate PostgreSQL to the cloud Choose the best configuration and specifications of cloud instances Set up a backup strategy that enables point-in-time recovery Use connection pooling and load balancing on cloud environments Monitor database environments on the cloud Who This Book Is For Those who are looking to migrate to PostgreSQL on the Cloud. It will also help database administrators in setting up a cloud environment in an optimized way and help them with their day-to-day tasks.

Mastering Data Warehouse Design - Claudia Imhoff 2003-08-19

A cutting-edge response to Ralph Kimball's challenge to the data warehouse community that answers some tough questions about the effectiveness of the relational approach to data warehousing Written by one of the best-known exponents of the Bill Inmon approach to data warehousing Addresses head-on the tough issues raised by Kimball and explains how to choose the best modeling technique for solving common data warehouse design problems Weighs the pros and cons of relational vs. dimensional modeling techniques Focuses on tough modeling problems, including creating and maintaining keys and modeling calendars, hierarchies, transactions, and data quality

PostgreSQL 11 Server Side Programming Quick Start Guide - Luca Ferrari 2018-11-29

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

Ruby on Rails Tutorial - Michael Hartl 2016-11-17

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Used by sites as varied as Twitter, GitHub, Disney, and Airbnb, Ruby on Rails is one of the most popular frameworks for developing web applications, but it can be challenging to learn and use. Whether you're new to web development or new only to Rails, Ruby on Rails™ Tutorial, Fourth Edition, is the solution. Best-selling author and leading Rails

developer Michael Hartl teaches Rails by guiding you through the development of three example applications of increasing sophistication. The tutorial's examples focus on the general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails 5, a division of the largest chapters into more manageable units, and a huge number of new exercises interspersed in each chapter for maximum reinforcement of the material. This indispensable guide provides integrated tutorials not only for Rails, but also for the essential Ruby, HTML, CSS, and SQL skills you need when developing web applications. Hartl explains how each new technique solves a real-world problem, and then he demonstrates it with bite-sized code that's simple enough to understand, yet novel enough to be useful. Whatever your previous web development experience, this book will guide you to true Rails mastery. This book will help you Install and set up your Rails development environment, including pre-installed integrated development environment (IDE) in the cloud Go beyond generated code to truly understand how to build Rails applications from scratch Learn testing and test-driven development (TDD) Effectively use the Model-View-Controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Create high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Upload images in production using a cloud storage service Implement account activation and password reset, including sending email with Rails Add social features and microblogging, including an introduction to Ajax Record version changes with Git and create a secure remote repository at Bitbucket Deploy your applications early and often with Heroku

Fundamentals of Computer Programming with C# - Svetlin Nakov 2013-09-01

The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures

and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber

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<http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

Mastering PostGIS - Dominik Mikiwicz
2017-05-31

Write efficient GIS applications using PostGIS - from data creation to data consumption About This Book Learn how you can use PostGIS for spatial data analysis and manipulation Optimize your queries and build custom functionalities for your GIS application A comprehensive guide with hands-on examples to help you master PostGIS with ease Who This Book Is For If you are a GIS developer or analyst who wants to master PostGIS to build efficient, scalable GIS applications, this book is for you. If you want to conduct advanced analysis of spatial data, this book will also help you. The book assumes that you have a working installation of PostGIS in place, and have working experience with PostgreSQL. What You Will Learn Refresh your

knowledge of the PostGIS concepts and spatial databases Solve spatial problems with the use of SQL in real-world scenarios Practical walkthroughs of application development examples using Postgis, GeoServer and OpenLayers. Extract, transform and load your spatial data Expose data directly or through web services. Consume your data in both desktop and web clients In Detail PostGIS is open source extension on PostgreSQL object-relational database system that allows GIS objects to be stored and allows querying for information and location services. The aim of this book is to help you master the functionalities offered by PostGIS- from data creation, analysis and output, to ETL and live edits. The book begins with an overview of the key concepts related to spatial database systems and how it applies to Spatial RMDS. You will learn to load different formats into your Postgres instance, investigate the spatial nature of your raster data, and finally export it using built-in functionalities or 3th party tools for backup or representational purposes. Through the course of this book, you will be presented with many examples on how to interact with the database using JavaScript and Node.js. Sample web-based applications interacting with backend PostGIS will also be presented throughout the book, so you can get comfortable with the modern ways of consuming and modifying your spatial data. Style and approach This book is a comprehensive guide covering all the concepts you need to master PostGIS. Packed with hands-on examples, tips and tricks, even the most advanced concepts are explained in a very easy-to-follow manner. Every chapter in the book does not only focus on how each task is performed, but also why.

Learning MySQL - Saied M.M. Tahaghoghi
2007-11-28

Presents instructions on using MySQL, covering such topics as installation, querying, user management, security, and backups and recovery.

PostgreSQL 11 Administration Cookbook - Simon Riggs
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

ASP.NET Core Application Development - James Chambers 2016-11-29

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Through four complete sprints, this book takes you through every step needed to build brand new cross-platform web apps with ASP.NET Core, and make them available on the Internet. You won't just master Microsoft's revolutionary open source ASP.NET Core technology: you'll learn how to integrate the immense power of MVC, Docker, Azure Web Apps, Visual Studio and Visual Studio Code, C#, JavaScript, TypeScript, and Entity Framework. Working through the authors' carefully designed sprints, you'll start with a blank canvas, move through software architecture and design, adjusting to user feedback, recovering from mistakes, builds, testing, deployment, maintenance, refactoring, and more. Along the way, you'll learn techniques for delivering state-of-the-art software to users more rapidly and repeatably than ever before.

Mastering Dart - Sergey Akopkokhyants
2014-11-20

If you are an application developer who has experience with Dart and want to develop reusable and robust code in Dart, then this book is for you. You are expected to have a basic knowledge of core elements and applications.