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This book is Volume 2 of the EUROCK 2018 proceedings. Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018, the 2018 International Symposium of the International Society for Rock Mechanics (ISRM 2018, Saint Petersburg, Russia, 22-26 May 2018). Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology, the main topics of the book include: - Physical and mechanical properties of fractured rock (laboratory testing and rock properties, field measurements and site investigations) - Geophysics in rock mechanics - Rock mass strength and failure - Nonlinear problems in rock mechanics - Effect of joint water on the behavior of rock foundation - Numerical modeling and back analysis - Mineral resources development: methods and rock mechanics problems - Rock mechanics and underground construction in mining, hydropower industry and civil engineering - Rock mechanics in petroleum engineering - Geodynamics and monitoring of rock mass behavior - Risks and hazards - Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2018, organized by the Saint Petersburg Mining University, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

Welcome to the "PostgreSQL 8.4 Official Documentation - Volume II. Server Administration"!

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After many years of development, PostgreSQL has become feature-complete in many areas. This release shows a targeted approach to adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards.

This manual describes the SQL language specification as implemented by PostgreSQL 9.0, including syntax, data types, functions and operators, indexes and transactions. Additional volumes in this series cover SQL commands, client/server programming interfaces and server administration.

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

Arguably the most capable of all the open source databases, PostgreSQL is an object-

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relational database management system first developed in 1977 by the University of California at Berkeley. In spite of its long history, this robust database suffers from a lack of easy-to-use documentation. Practical PostgreSQL fills that void with a fast-paced guide to installation, configuration, and usage. This comprehensive new volume shows you how to compile PostgreSQL from source, create a database, and configure PostgreSQL to accept client-server connections. It also covers the many advanced features, such as transactions, versioning, replication, and referential integrity that enable developers and DBAs to use PostgreSQL for serious business applications. The thorough introduction to PostgreSQL's PL/pgSQL programming language explains how you can use this very useful but under-documented feature to develop stored procedures and triggers. The book includes a complete command reference, and database administrators will appreciate the chapters on user management, database maintenance, and backup & recovery. With Practical PostgreSQL, you will discover quickly why this open source database is such a great open source alternative to proprietary products from Oracle, IBM, and Microsoft.

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.

This book will get you up and running with the working of relational databases, data modeling, data manipulation, and more. You will learn to build efficient relational database solutions from scratch using the latest features of PostgreSQL 12 and 13. You'll also be able to identify bottlenecks to enhance the performance of database applications.

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The Postgresql Reference Manual Programming Guide Network Theory. 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.

"The PHP Black Book" is a complete and indispensable reference to the PHP open source scripting language version 4. This cross-platform book covers the language syntax, standard library, and integration with various databases including open source databases such as PostgreSQL and MySQL.

A guide for users and designers of database systems. Outlines the inherent problems in the study, design, and implementation, and examines the background issues of priorities, administrative prerequisites, design concepts, database management systems, protocols, security, communication processes, and interactivity. Gives advice on developing corporate databases and management systems. Non-technical, user-oriented text. No bibliography. Date provides a comprehensive treatment of standard SQL, with many worked

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examples while discussing some of the implications of the standard. Annotation copyrighted by Book News, Inc., Portland, OR

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 2 with the main part "Server Administration." 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.

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 7 books. This is Volume 7 with the main part "Internals." 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 10

Welcome to the "PostgreSQL 8.4 Official Documentation - Volume V. Internals and Appendixes"! After many years of development, PostgreSQL has become feature-complete in many areas. This release shows a targeted approach to

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adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards.

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!

This manual describes all the SQL commands available in PostgreSQL 9.0. Client and server command-line tools are also documented.

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 7 books. This is Volume 2 with the main part "Server Administration." 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 10

This comprehensive reference guide offers useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system.

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

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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.

*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 Refactoring has proven its value in a wide range of development projects—helping software professionals improve system designs, maintainability, extensibility, and performance. Now, for

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the first time, leading agile methodologist Scott Ambler and renowned consultant Pramodkumar Sadalage introduce powerful refactoring techniques specifically designed for database systems. Ambler and Sadalage demonstrate how small changes to table structures, data, stored procedures, and triggers can significantly enhance virtually any database design—without changing semantics. You'll learn how to evolve database schemas in step with source code—and become far more effective in projects relying on iterative, agile methodologies. This comprehensive guide and reference helps you overcome the practical obstacles to refactoring real-world databases by covering every fundamental concept underlying database refactoring. Using start-to-finish examples, the authors walk you through refactoring simple standalone database applications as well as sophisticated multi-application scenarios. You'll master every task involved in refactoring database schemas, and discover best practices for deploying refactorings in even the most complex production environments. The second half of this book systematically covers five major categories of database refactorings. You'll learn how to use refactoring to enhance database structure, data quality, and referential integrity; and how to refactor both architectures and methods. This book provides an extensive set of examples built with Oracle and Java and easily adaptable for other languages, such as C#, C++, or VB.NET, and other databases, such as DB2, SQL Server, MySQL, and Sybase. Using this book's techniques and examples, you can reduce waste, rework, risk, and cost—and build database systems capable of evolving smoothly, far into the future.

Welcome to the PostgreSQL 8.4 Official Documentation - Volume I. The SQL Language! After many years of development, PostgreSQL has become feature-

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complete in many areas. This release shows a targeted approach to adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards.

Volume 2 of the official reference documentation for PostgreSQL 8.2.4, covers the client and server interfaces to PostgreSQL.

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

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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

Geared toward designers and professionals interested in the conceptual aspects of integrity problems in different paradigms, Database Integrity: Challenges and Solutions successfully addresses these and a variety of other issues.

Practical SQL is an approachable and fast-paced guide to SQL (Structured Query Language), the standard programming language for defining, organizing, and exploring data in relational databases. The book focuses on using SQL to find the story your data tells, with the popular open-source database PostgreSQL and the pgAdmin interface as

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its primary tools. You'll first cover the fundamentals of databases and the SQL language, then build skills by analyzing data from the U.S. Census and other federal and state government agencies. With exercises and real-world examples in each chapter, this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently. You'll learn how to:

- Create databases and related tables using your own data
- Define the right data types for your information
- Aggregate, sort, and filter data to find patterns
- Use basic math and advanced statistical functions
- Identify errors in data and clean them up
- Import and export data using delimited text files
- Write queries for geographic information systems (GIS)
- Create advanced queries and automate tasks

Learning SQL doesn't have to be dry and complicated. Practical SQL delivers clear examples with an easy-to-follow approach to teach you the tools you need to build and manage your own databases. This book uses PostgreSQL, but the SQL syntax is applicable to many database applications, including Microsoft SQL Server and MySQL.

Welcome to the "PostgreSQL 8.4 Official Documentation - Volume III. Server Programming"! After many years of development, PostgreSQL has become feature-complete in many areas. This release shows a targeted approach to adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards.

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Welcome to the "PostgreSQL 8.4 Official Documentation - Volume IV. Reference"! After many years of development, PostgreSQL has become feature-complete in many areas. This release shows a targeted approach to adding features (e.g., authentication, monitoring, space reuse), and adds capabilities defined in the later SQL standards. Updated to include the new features introduced in PostgreSQL 13, this book shows you how to build better PostgreSQL applications and administer your PostgreSQL database efficiently. You'll master the advanced features of PostgreSQL and develop the skills you need to build secure and highly available database solutions.

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

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SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration.

This book 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.

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 7 books. This is Volume 2 with the main part "Server Administration." 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 9.6

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

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have two options for finding the information.

This engaging text provides a solid introduction to mapmaking in the era of cloud computing. It takes students through both the concepts and technology of modern cartography, geographic information systems (GIS), and Web-based mapping. Conceptual chapters delve into the meaning of maps and how they are developed, covering such topics as map layers, GIS tools, mobile mapping, and map animation. Methods chapters take a learn-by-doing approach to help students master application programming interfaces and build other technical skills for creating maps and making them available on the Internet. The companion website offers invaluable supplementary materials for instructors and students. ~ ~ Pedagogical features: ~ End-of-chapter summaries, review questions, and exercises. ~ Extensive graphics illustrating the concepts and procedures. Downloadable PowerPoints for each chapter. Downloadable code files (where applicable) for the exercises.

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