postgres command line cheat sheet

postgres command line cheat sheet is an essential resource for database administrators, developers, and data analysts who work extensively with PostgreSQL. This guide provides a comprehensive overview of the most important and commonly used command line instructions that facilitate efficient database management, querying, and troubleshooting. Understanding these commands can significantly improve productivity and reduce the time spent on routine database tasks. From connecting to databases to managing tables, users, and backups, this cheat sheet covers a wide range of functionalities. Additionally, it introduces advanced command line utilities that help optimize PostgreSQL performance and security. Whether you are a beginner or an experienced user, this article offers a valuable reference to master PostgreSQL command line operations.

Connecting to PostgreSQL

Establishing a connection to the PostgreSQL server is the first step in any database operation. The postgres command line interface provides a versatile client called *psql* that allows users to interact with the database.

Basic Connection Command

To connect to a PostgreSQL database, the following syntax is used:

- **psql -h hostname -p port -U username -d database_name**

This command specifies the host, port, user, and database to connect. If you omit the host, it defaults to localhost, and if the database name is omitted, it connects to the user’s default database.

Connecting Without Password Prompt

To avoid entering the password interactively, use environment variables or a *.pgpass* file to store credentials securely. This helps automate scripts and batch jobs without compromising security.

Connection Shortcuts

For quick access, you can simplify the command:

- **psql database_name** – connects to a database on localhost with the current user.
- **psql -U username** – connects to the default database with a specified user.

Database Management Commands

Managing databases through the command line involves creating, listing, and deleting databases efficiently. PostgreSQL provides a set of commands both within *psql* and the shell to perform these tasks.

Creating a New Database

Use the **createdb** command to create a new PostgreSQL database:

- **createdb database_name**

This command creates a new database owned by the current user unless otherwise specified.

Listing Existing Databases

Inside the *psql* shell, list all available databases using:

- **\l** or **\list**

This shows database names, owners, encoding, and access privileges.

Dropping a Database

To remove a database, use the **dropdb** command:

- **dropdb database_name**

Be cautious with this command since it permanently deletes the database and its data.

Table Operations

Tables are the cornerstone of any relational database. Managing tables via the PostgreSQL command line involves creating, describing, and deleting tables efficiently.

Creating a Table

Tables are created using standard SQL commands within the *psql* environment:

- **CREATE TABLE table_name (column1 datatype, column2 datatype, ...);**

For example, *CREATE TABLE employees (id SERIAL PRIMARY KEY, name VARCHAR(100), salary NUMERIC);* creates a basic employee table.

Describing Table Structure

To view the schema of a table, use the meta-command:

- **\d table_name**

This displays columns, types, modifiers, and indexes associated with the table.

Dropping a Table

To remove a table and its associated data, execute:

- **DROP TABLE table_name;**

This command deletes the table permanently; use it with care.

Data Manipulation Commands

Manipulating data within PostgreSQL tables is a fundamental task and can be performed efficiently using SQL commands via the command line interface.

Inserting Data

Use the **INSERT INTO** statement to add rows to a table:

- **INSERT INTO table_name (column1, column2) VALUES (value1, value2);**

Multiple rows can be inserted in a single query by separating value sets with commas.

Updating Data

The **UPDATE** command modifies existing records based on specified conditions:

- **UPDATE table_name SET column1 = value1 WHERE condition;**

Always ensure the WHERE clause is used to prevent unintentional updates to all rows.

Deleting Data

To remove rows from a table, use the:

- **DELETE FROM table_name WHERE condition;**

Omitting the WHERE clause deletes all rows, so it should be used cautiously.

User and Role Management

User and role management is vital for database security and access control. PostgreSQL provides robust command line tools to create, modify, and grant privileges to users and roles.

Creating a User or Role

To create a new user or role, use the following SQL command inside *psql*:

- **CREATE ROLE role_name WITH LOGIN PASSWORD 'password';**

This command creates a login-enabled role with a password for authentication.

Granting Privileges

Assign permissions to users or roles with the **GRANT** command:

- **GRANT SELECT, INSERT ON table_name TO role_name;**

This example grants read and insert privileges on a specific table.

Listing Users and Roles

To list all roles and users, execute:

- **\du**

This displays role names, attributes, and membership information.

Backup and Restore Commands

Backing up and restoring PostgreSQL databases is crucial for data protection and disaster recovery. The command line provides powerful tools for these operations.

Backing Up a Database

Use the **pg_dump** utility to back up a database to a file:

- **pg_dump database_name > backup_file.sql**

This creates a SQL script file containing all commands to recreate the database schema and data.

Restoring a Database

To restore from a backup file, use the **psql** command:

- **psql database_name < backup_file.sql**

This executes the SQL commands from the backup file to rebuild the database.

Backing Up and Restoring with Custom Formats

The **pg_dump** and **pg_restore** tools support custom archive formats which allow selective restore operations:

- **pg_dump -Fc database_name > backup_file.dump**

- **pg_restore -d database_name backup_file.dump**

This method is preferred for larger databases and more complex restore scenarios.

Performance and Monitoring Utilities

Monitoring and optimizing PostgreSQL performance can be done effectively through command line utilities and built-in commands. These tools help identify bottlenecks and maintain database health.

Viewing Active Connections

To view current database connections and activity, use:

- **SELECT * FROM pg_stat_activity;**

This query provides detailed information about all active sessions.

Analyzing Table Statistics

Gathering table statistics helps optimize query plans. Run:

- **ANALYZE table_name;**

This updates statistics used by the PostgreSQL query planner.

Vacuuming Tables

To reclaim storage and maintain database performance, use the **VACUUM** command:

- **VACUUM;** – cleans up dead tuples in all tables.
- **VACUUM FULL;** – performs a more thorough cleanup but requires exclusive locks.

Regular vacuuming prevents table bloat and improves efficiency.

Frequently Asked Questions

What is the basic command to connect to a PostgreSQL database via the command line?

Use the command `psql -h hostname -U username -d dbname` to connect to a PostgreSQL database from the command line.

How do you list all databases in PostgreSQL using the command line?

After connecting to the PostgreSQL server with `psql`, use the command `\l` or `\list` to list all databases.

What command shows all tables in the current PostgreSQL database?

Within the `psql` prompt, use `\dt` to display all tables in the current database.

How can you describe the structure of a table from the PostgreSQL command line?

Use the command `\d tablename` inside `psql` to see the schema and structure of a specific table.

How do you execute an SQL file from the PostgreSQL command line?

Run `psql -d dbname -f filename.sql` to execute SQL commands from a file on a specified database.

What command allows you to quit the PostgreSQL command line interface?

Type `\q` at the `psql` prompt to exit the PostgreSQL command line interface.

How do you change the current database connection in the PostgreSQL CLI without exiting?

Use the command `\c dbname` or `\connect dbname` inside `psql` to switch to a different database.

How can you get help on SQL commands or `psql` meta-commands in the PostgreSQL CLI?

Type `\?` for help on `psql` commands and `\h` for SQL command syntax help within the `psql` interface.

Additional Resources

1. *PostgreSQL Command Line Essentials*
This book provides a comprehensive guide to mastering the PostgreSQL command line interface. It covers essential commands, tips, and tricks to efficiently manage databases, tables, and users. Perfect for beginners and intermediate users looking to enhance their command line skills.

2. *Mastering PostgreSQL: CLI and Beyond*
Dive deep into PostgreSQL's command line tools with this detailed resource. The book covers everything from basic queries to advanced performance tuning using the CLI. Readers will learn how to automate tasks and troubleshoot common issues using command line utilities.

3. *Postgres CLI Cookbook*
A practical cookbook filled with recipes for common and complex PostgreSQL command line operations. Each chapter focuses on a specific task, such as backup, restore, and user management, with step-by-step instructions. Ideal for database administrators who want quick solutions at their fingertips.

4. *The PostgreSQL Command Line Survival Guide*
Designed for those who work daily with PostgreSQL, this guide offers concise explanations and examples of frequently used command line commands. It emphasizes productivity and problem-solving techniques to streamline database management. The book also includes a handy cheat sheet for quick reference.

5. *PostgreSQL CLI Tips and Tricks*
Explore lesser-known PostgreSQL command line features and shortcuts that can boost your efficiency. This book highlights practical tips and best practices gathered from experienced DBAs and developers. It's a valuable companion for anyone who wants to get the most out of the PostgreSQL CLI.

6. *Efficient Database Management with PostgreSQL CLI*
Focus on optimizing your workflow by leveraging PostgreSQL's command line tools. The book explains how to perform routine maintenance, monitor database performance, and manage security using CLI commands. It's tailored for professionals seeking to improve their operational expertise.

7. *PostgreSQL Command Line Reference Manual*
An exhaustive reference manual detailing every command available in the PostgreSQL command line interface. This book serves as both a tutorial and a reference guide for users at all levels. It includes syntax explanations, examples, and common error solutions.

8. *Advanced PostgreSQL CLI Techniques*
Take your PostgreSQL command line skills to the next level with advanced techniques covered in this book. Topics include scripting, automation, complex query execution, and integration with other tools. Perfect for power users who want to harness the full potential of PostgreSQL's CLI.

9. *PostgreSQL CLI for Developers*
Tailored specifically for developers, this book focuses on using the PostgreSQL command line to speed up development workflows. It covers schema management, data importing/exporting, and debugging through CLI commands. Developers will find practical examples that align with real-world application needs.

Postgres Command Line Cheat Sheet

postgres command line cheat sheet: Beginning Databases with PostgreSQL Richard Stones, Neil Matthew, 2006-11-03 PostgreSQL is arguably the most powerful open-source relational database system. It has grown from academic research beginnings into a functionally-rich, standards-compliant, and enterprise-ready database used by organizations all over the world. And it's completely free to use. Beginning Databases with PostgreSQL offers readers a thorough overview of database basics, starting with an explanation of why you might need to use a database, and following with a summary of what different database types have to offer when compared to alternatives like spreadsheets. You'll also learn all about relational database design topics such as the SQL query language, and introduce core principles including normalization and referential integrity. The book continues with a complete tutorial on PostgreSQL features and functions and include information on database construction and administration. Key features such as transactions, stored procedures and triggers are covered, along with many of the capabilities new to version 8. To help you get started quickly, step-by-step instructions on installing PostgreSQL on Windows and Linux/UNIX systems are included. In the remainder of the book, we show you how to make the most of PostgreSQL features in your own applications using a wide range of programming languages, including C, Perl, PHP, Java and C#. Many example programs are presented in the book, and all are available for download from the Apress web site. By the end of the book you will be able to install, use, and effectively manage a PostgreSQL server, design and implement a database, and create and deploy your own database applications.

postgres command line cheat sheet: PostgreSQL 9.0 Reference Manual - Volume 1B Postgresql Global Development Group, 2010 This manual describes all the SQL commands available in PostgreSQL 9.0. Client and server command-line tools are also documented.

postgres command line cheat sheet: PostgreSQL 9.0 Official Documentation - Volume IV. Reference 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.

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postgres command line cheat sheet: *PostgreSQL* Regina O. Obe, Leo S. Hsu, 2015 Thinking of migrating to PostgreSQL? This clear, fast-paced introduction helps you understand and use this open source database system. Not only will you learn about the enterprise class features in versions 9.2, 9.3, and 9.4, you ll also discover that PostgeSQL is more than a database system it s also an impressive application platform. With examples throughout, this book shows you how to achieve tasks that are difficult or impossible in other databases. This second edition covers LATERAL queries, augmented JSON support, materialized views, and other key topics. If you re a current PostgreSQL user, you ll pick up gems you may have missed before.Learn basic administration tasks

such as role management, database creation, backup, and restoreApply the psql command-line utility and the pgAdmin graphical administration toolExplore PostgreSQL tables, constraints, and indexesLearn powerful SQL constructs not generally found in other databasesUse several different languages to write database functionsTune your queries to run as fast as your hardware will allowQuery external and variegated data sources with foreign data wrappersLearn how use built-in replication filters to replicate data

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postgres command line cheat sheet: *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 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.

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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 ...

postgres command line cheat sheet: PostgreSQL Skills Development on Cloud Venkateswara Vadlamani, 2024-12-05 This book provides a comprehensive approach to manage PostgreSQL cluster databases on Amazon Web Services and Azure Web Services on the cloud, as well as in Docker and container environments on a Red Hat operating system. Furthermore, detailed references for managing PostgreSQL on both Windows and Mac are provided. This book condenses all the fundamental and essential concepts you need to manage a PostgreSQL cluster into a one-stop guide that is perfect for newcomers to Postgres database administration. Each chapter of the book provides historical context and documents version changes of the PostgreSQL cluster, elucidates practical how-to methods, and includes illustrations and key word definitions, practices for application, a summary of key learnings, and questions to reinforce understanding. The book also outlines a clear study objective with a weekly learning schedule and hundreds of practice exercises, along with questions and answers. With its comprehensive and practical approach, this book will help you gain the confidence to manage all aspects of a PostgreSQL cluster in critical production environments so you can better support your organization's database infrastructure on the cloud and in containers. What You Will Learn Install and configure Postgres clusters on the cloud and in containers, monitor database logs, start and stop databases, troubleshoot, tune performance, backup and recover, and integrate with Amazon S3 and Azure Data Blob Manage Postgres databases on Amazon Web Services and Azure Web Services on the cloud, as well as in Docker and container environments on a Red Hat operating system Access sample references to scripting solutions and database management tools for working with Postgres, Redshift (based on Postgres 8.2), and Docker Create Amazon Machine Images (AMI) and Azure Images for managing a fleet of Postgres clusters on the cloud Reinforce knowledge with a weekly learning schedule and hundreds of practice exercises, along with questions and answers Progress from simple concepts, such as how to choose the correct instance type, to creating complex machine images Gain access to an Amazon AMI with a DBA admin tool, allowing you to learn Postgres, Redshift, and Docker in a cloud environment Refer to a comprehensive summary of documentations of Postgres, Amazon Web services, Azure Web services, and Red Hat Linux for managing all aspects of Postgres cluster management on the cloud Who This Book Is For Newcomers to PostgreSQL database administration and cross-platform support DBAs looking to master PostgreSQL on the cloud.

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postgres command line cheat sheet: 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, invertering, 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 eigthth 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.

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有一种游戏，是一个主角拿着一个鞭子，可以鞭木乃尹，也 游戏主要剧情为吸血鬼伯爵德拉古拉因故复活，玩家进入吸血鬼城堡(即恶魔城)消灭吸血鬼并拯救人类。影响力较大的一部作品为PS上推出的《恶魔城月下夜想曲》，以及GBA

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求一个游戏名，以前玩过一款游戏,一个人拿鞭子，那个鞭子也 2 days ago 求一个游戏名，以前玩过一款游戏,一个人拿鞭子，那个鞭子也可以像鬼泣4那样用鞭子拉一个点然后飞过去的游戏，也是冒险类的，和鬼泣很像

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