# postgresql Cheat Sheet

by cgp via cheatography.com/42358/cs/39552/

## Database

| | |
|---|---|
| \l | list databases |
| \l+ | list databases with more details |
| \c <db_name> | Connects to a given database |
| \h CREATE DATABASE | gives help on creating a database |
| CREATE DATABASE mytest; | Creates a database called mytest |

## Table

| | |
|---|---|
| \d <TABLE_NAME> | Shows information on the given table_name |
| \d+ <TABLE_NAME> | Gives more detailed info on a given table |
| \dt | List tables from a given schema |
| \dt . | List tables from all schemas |
| \dt <name-of-schema>.* | List tables for a given schema |
| \copy (SELECT * FROM <my_table>) TO 'file_path_and_name.csv' WITH CSV | Copies data from a table to a CSV file |
| ANALYZE [__table__] | Shows statistics about a table |
| SELECT * FROM pg_indexes WHERE tablename='__table_name__' AND schemaname='__schema_name__'; | Show indexes on a table |
| Comment on table employee is 'Stores employee records'; | Add a comment about a table |
| Comment on column employee.ssn is 'Employee Social Security Number'; | Add a comment about a column in a table |

## Command line

psql [OPTION]... [DBNAME [USERNAME]]

| | |
|---|---|
| -d, --dbname=-DBNAME | database name to connect to (default: "-family") |
| -f, --file=FILENAME | execute commands from file, then exit |
| -c, --command=COMMAND | run only single command (SQL or internal) and exit |
| -h, --host=HOSTNAME | database server host |
| -p, --port=PORT | database server port (default: "5432") |
| -U, --username=USERNAME | database user name (default: "family") |
| -H, --html | HTML table output mode |

## Configuration

| | |
|---|---|
| show all | Display configuration parameters |
| select * from pg_settings; | Display configuration parameters using sql |
| show config_file; | Show location of config file |

## User Commands

| | |
|---|---|
| \password <username> | Change the password for given username |
| select * from pg_user; | Show all users |
| DROP USER <username> | Removes a given user |
| CREATE USER name [ [ WITH ] option [ ... ] ] | Cre |

## Backup and Restore

$ pg_dump mydb > mydb.bak.sql

// Create a backup for a database “mydb” in plain-text SQL Script file (mydb.bak.sql) (pg_dump)

$ pg_dump -c -C -F p -f mydb.bak.sql mydb

// Creates a backup for a database “mydb” in plain text format with drop & create database commands included in output file mydb.bak.sql (pg_dump)

psql -U username -f filename.sql

// restores from a set of SQL commands as given above

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