

Connecting to PostgreSQL

<code>psql</code>	open PostgreSQL interactive terminal
<code>psql -c {command}</code>	execute a single command and exit
<code>psql -d {database}</code>	connect to a particular database
<code>psql -U {role}</code>	connect as a particular user
<code>psql -l</code>	list all databases

Executed from your system command line

psql commands

<code>\du</code>	list all roles with their permissions
<code>\l</code>	list all databases with their owners
<code>\c</code>	show the current user and the database that you are connected to
<code>\c {database}</code>	connect to a particular database
<code>\dt</code>	list all tables in a connected database
<code>\d {table}</code>	list all columns and indexes for a specific table in a connected database

Executed inside `psql` interactive terminal


Roles and databases management


<code>createuser {user}</code>	create a new PostgreSQL role
<code>dropuser {user}</code>	drop an existing PostgreSQL role
<code>createdb {database}</code>	create a new database
<code>dropdb {database}</code>	drop an existing database

Executed from your system command line

Database backup

<code>pg_dump {database} \> dump.sql</code>	dump a database to a text file
<code>psql {database} \< dump.sql</code>	restore a database from a text file
<code>pg_dump -Ft \-f dump.tar \{database}</code>	dump a database to an archive file
<code>pg_restore -d \{database} dump.tar</code>	restore a database from an archive file
<code>pg_dumpall > dump.sql</code>	dump all databases to a text file

 `pg_dump -Ft` is the same as `--format=tar`

 `pg_restore`

`-c` will drop database before restoring if already exists

`-C` will also create a database unless already exists



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