PostgreSQL Cheat Sheet

Basic Commands

Connect to database: psql -U username -d dbname

List databases: \l

Connect to another database: \c dbname

List tables: \dt

List users/roles: \du

Exit psql: \q

SQL Basics

Create database: CREATE DATABASE dbname;

Create user: CREATE USER username WITH PASSWORD 'password';

Grant privileges: GRANT ALL PRIVILEGES ON DATABASE dbname TO username;

Create table: CREATE TABLE tablename (id SERIAL PRIMARY KEY, name TEXT);

Insert into table: INSERT INTO tablename (name) VALUES ('John');

Select from table: SELECT * FROM tablename;

Advanced SQL

Join tables: SELECT * FROM a JOIN b ON a.id = b.a_id;

Update data: UPDATE tablename SET name = 'Jane' WHERE id = 1;

Delete data: DELETE FROM tablename WHERE id = 1;

Create index: CREATE INDEX idx_name ON tablename(column);

Use transactions: BEGIN; -- SQL statements -- COMMIT;

Meta-Commands in psql

Show current database: \conninfo

Describe table: \d tablename

List indexes: \di

List schemas: \dn