

Installing PostgreSQL



PostgreSQL

PostgreSQL is widely used, open-source Relational Database Management System originally developed in 1986 at UC Berkeley. Read about current features at https://www.postgresql.org/about/



PgAdmin is an administration and development platform for PostgreSQL

Installation of Postgres and PgAdmin

Download and install the latest stable (not beta) version of PostgreSQL for your OS: https://www.enterprisedb.com/downloads/postgres-postgresgl-downloads

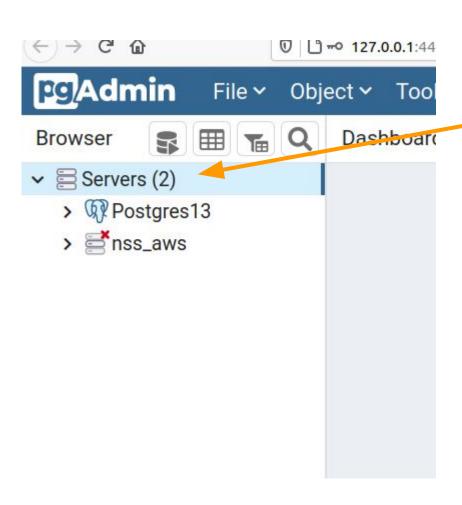
When installing postgres, you should be given the option to also install PgAdmin, but in case you are not, you can download it from https://www.pgadmin.org/download/.

During installation you can accept all the defaults. A few things to confirm:

- 1. Database Port is 5432
- 2. Database password is **"postgres"**

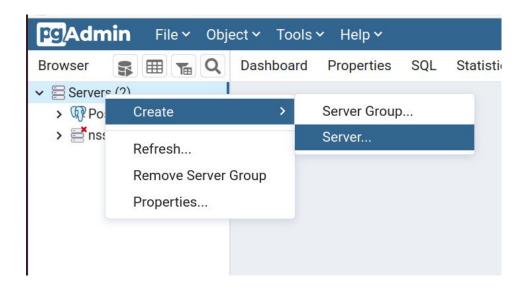
Since this is not secure data and it is for learning use, <u>set the postgres and pgAdmin</u> <u>administrative passwords to "postgres"</u>. This is not something you would do with secure data in a production environment!

Initial Setup



- After installing postgres and pgAdmin, launch PgAdmin
- In the upper left, click on "Servers"
- You may or may not see a Server. If not, you'll need to create one.

Creating a Server (Not Needed if you see a server already)

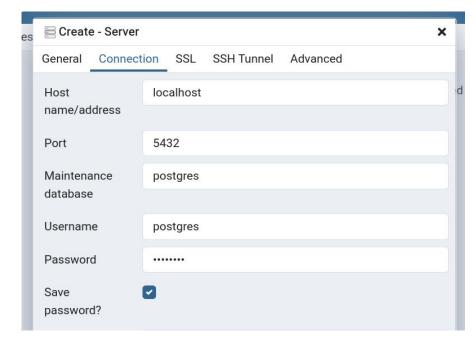


If you don't have a server already, right-click on "Servers" and choose Create -> Server

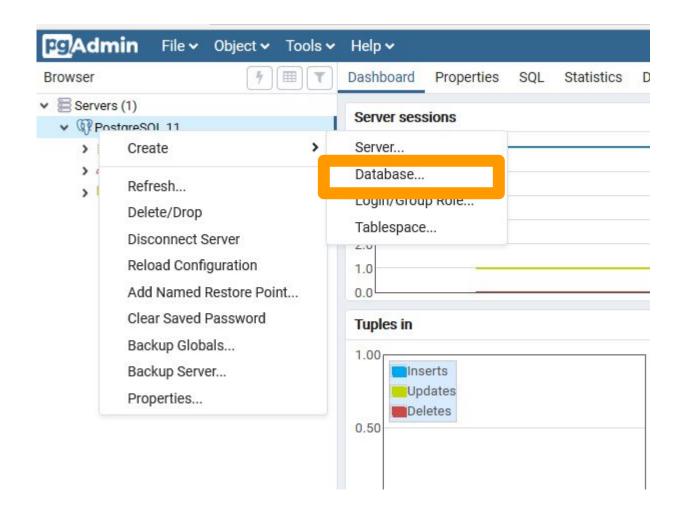
Name it "Postgres" and then on the connection tab, set Host name/address to "localhost"

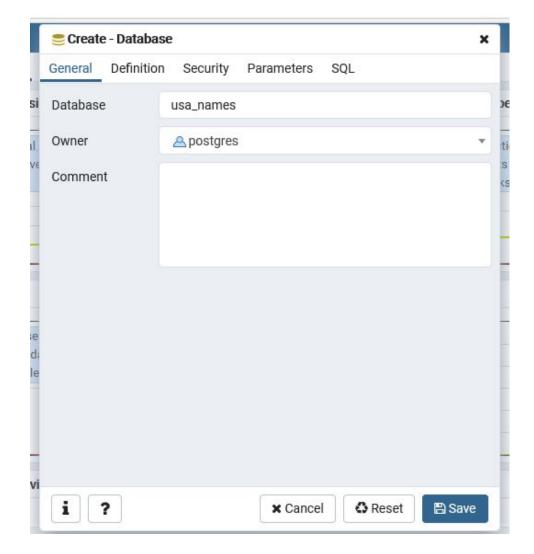
Double-check that the Port is set to 5432 and input your password (postgres)

Then click "Save".

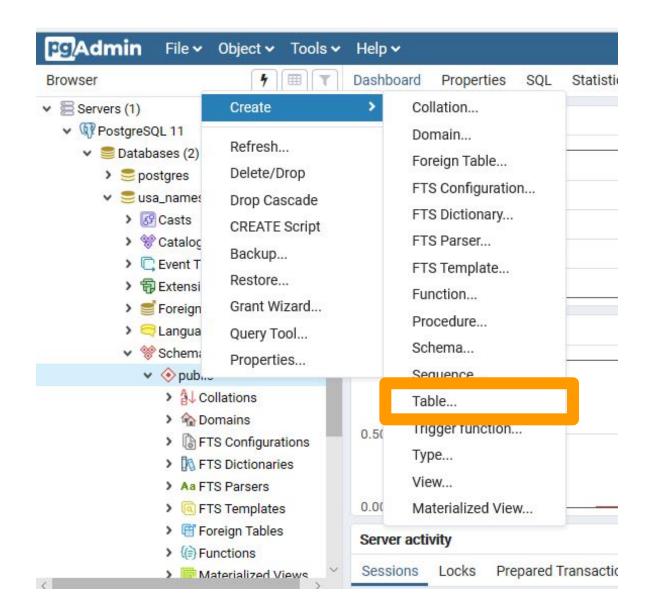


Now we're ready to create our first database. Right-click on your Postgres Server and choose Create > Database Name this Database "usa names".

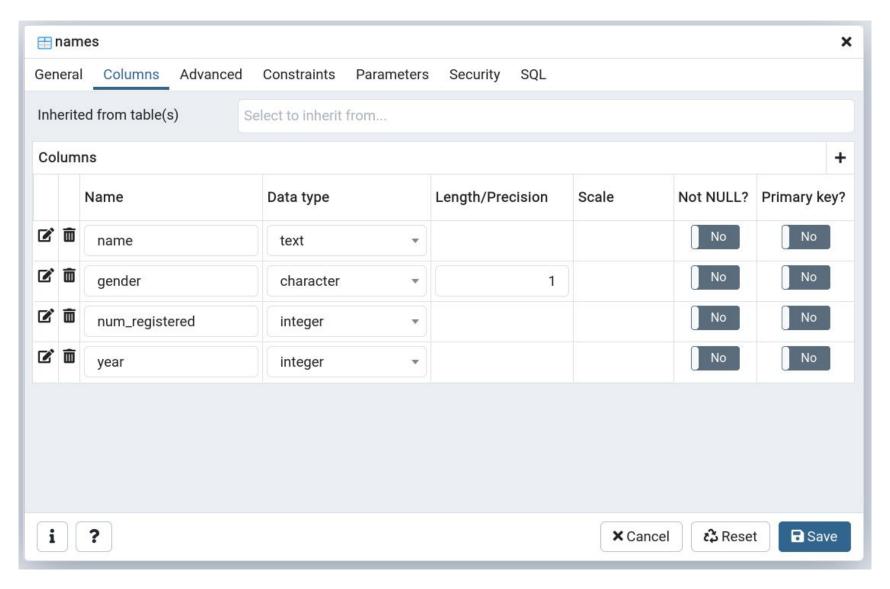


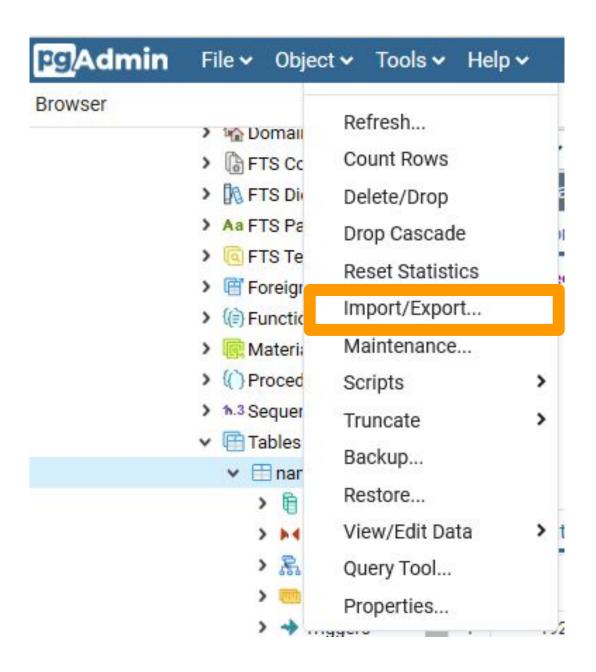


Expand the usa_names database, right-click the *public* Schema, and choose Create > Table.



Name this table "names" Go to the Columns tab and add the columns as shown.





Right-click on the *names* table and select Import/Export

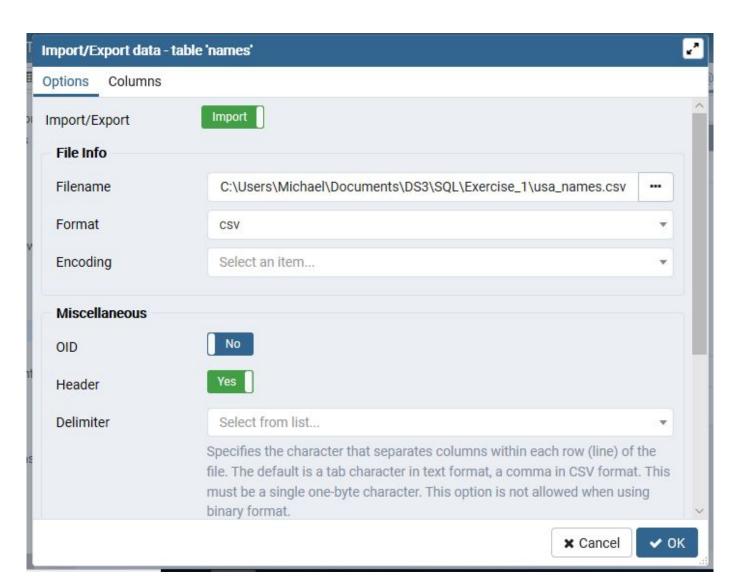
Download the USA names dataset from

https://drive.google.com/file/d/18-1x7hsWaRncGPoi257uCo3x HK3k5T-V/view?usp=sharing

This contains a count by year of all names registered with the Social Security administration. (In order for a name to appear there must have been at least 5 registrations in a single state for that name in that year).

In the next step, we'll convert the downloaded csv into a table in postgres.

- Select Import (Export is selected by default)
- For Filename, click the ... button and browse to where you saved the file
- Make sure that Header is set to Yes



Launch the query editor Tools > Query Tool

 To check that everything worked correctly, run the query "SELECT * FROM names LIMIT 5;"

To run the query, either use the Play (or Lightning Bolt, depending on

usa_names/postgres@Postgres13 >

Notifications

54372

35161

31682

25866

23914

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Query Editor Query History

SELECT *

LIMIT 5;

5 Patricia F

your version of pgAdmin) button or the F5 key

