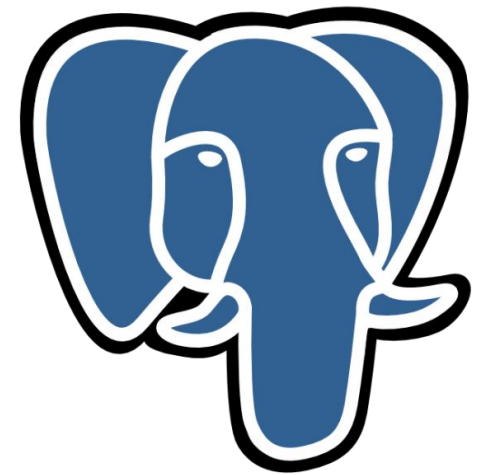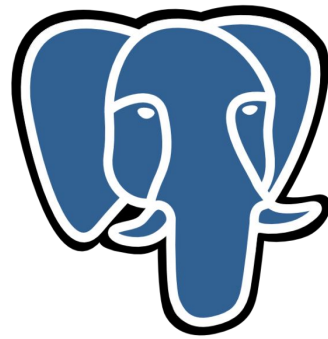# Installing PostgreSQL

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

1. **Download and Install PostgreSQL:**
   - Mac users install the postgres.app: https://postgresapp.com/
   - Windows/Linux users download and install PostgreSQL 12:
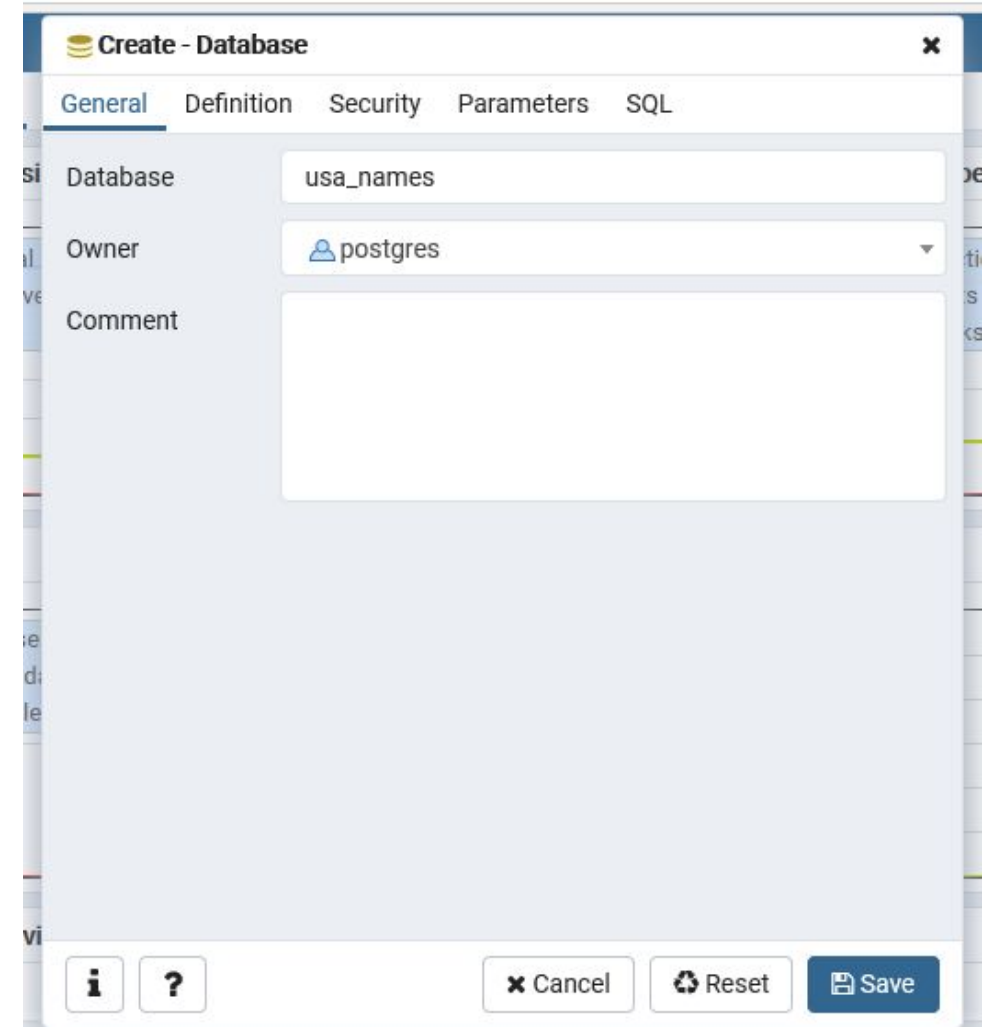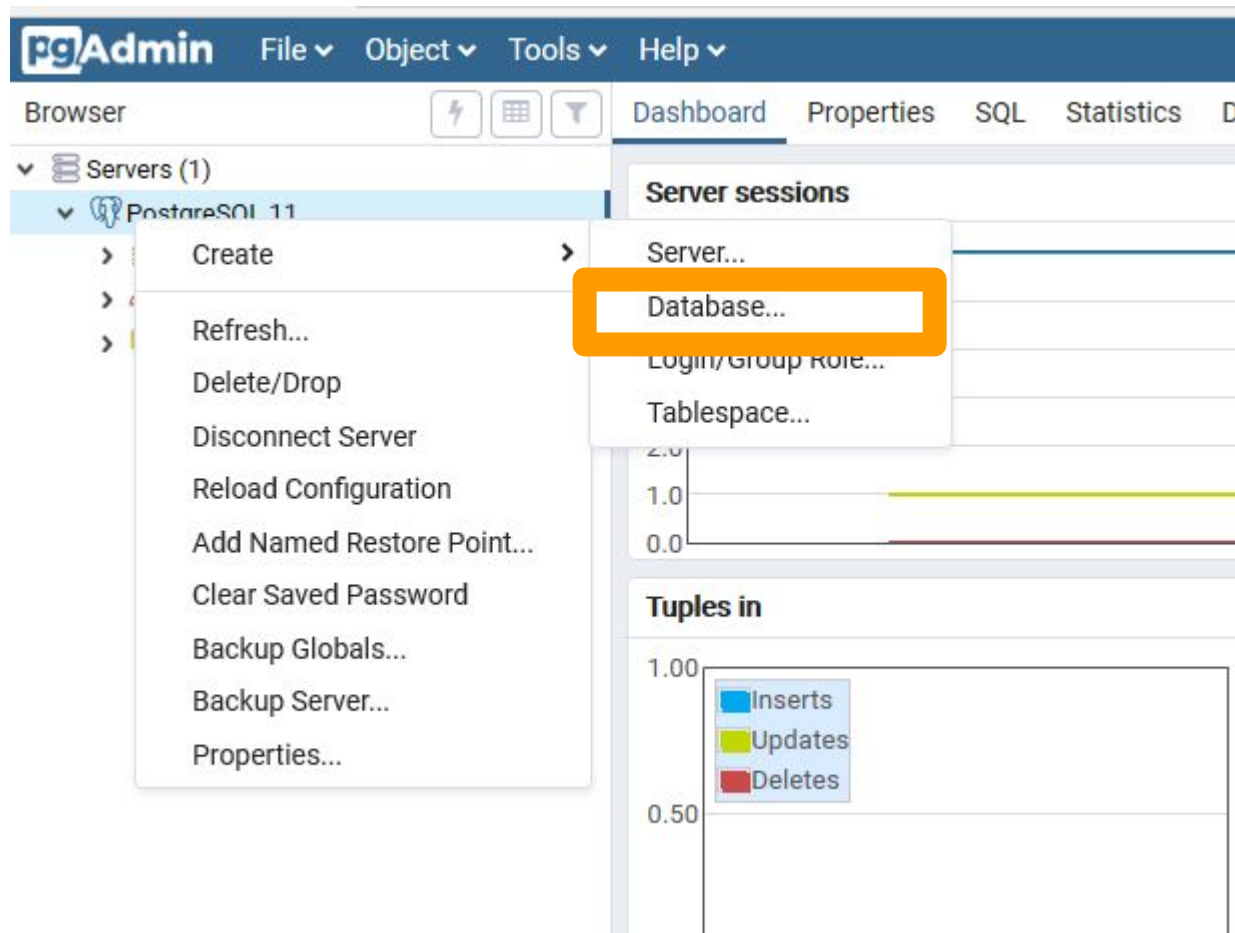   https://www.enterprisedb.com/downloads/postgres-postgresql-downloads

Since this is not secure data and it is for learning use, I highly recommend setting the postgres and pgAdmin administrative passwords to *postgres*. This is not something you would do with secure data in a production environment!
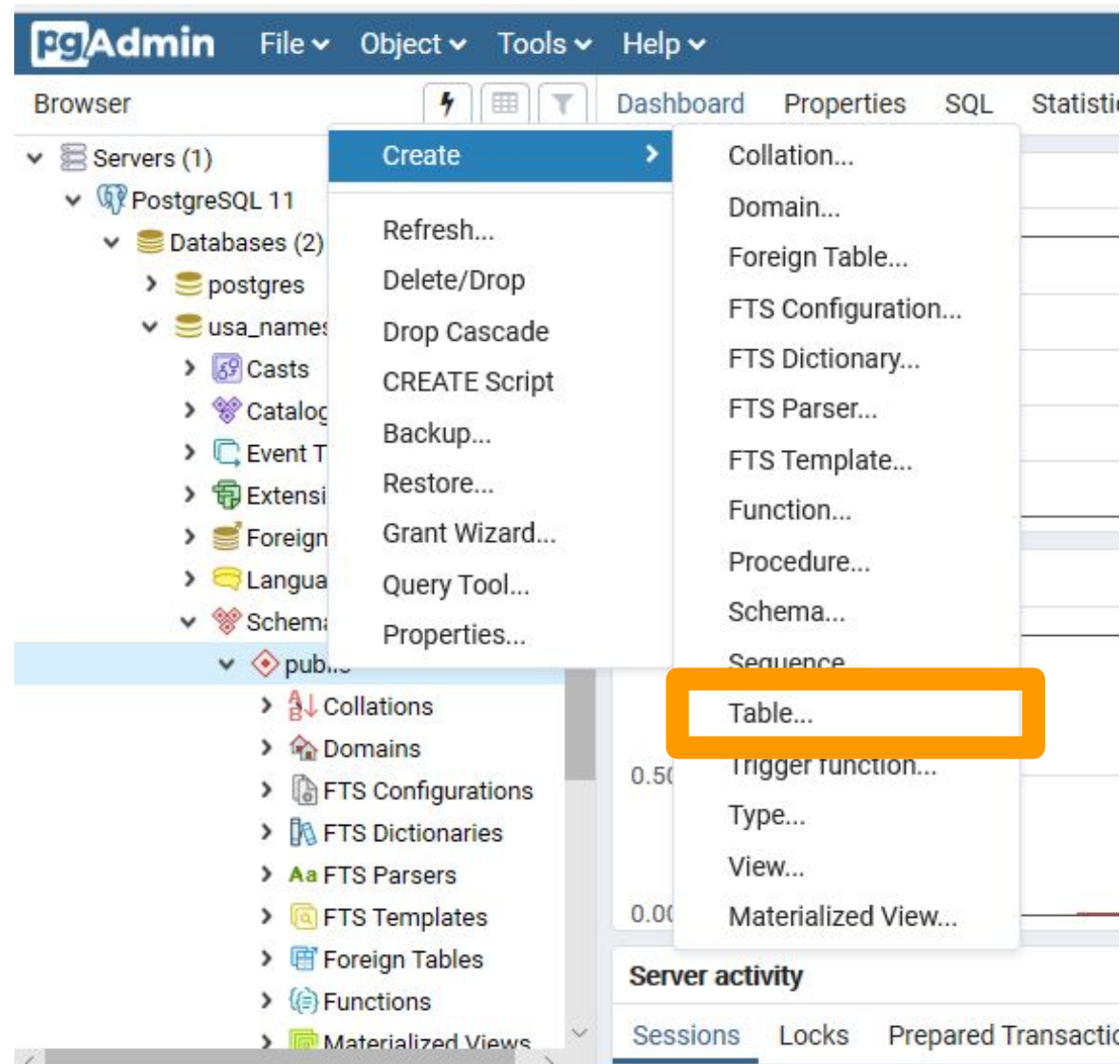Leave the default port (5432).

2. **Download and Install pgAdmin:**
   - On Windows, you will likely be given the option to install PgAdmin 4 when you install PostgreSQL.
   - On Mac (or if you were not given the option on Windows), download and install the latest version from https://www.pgadmin.org/download/

- After installing postgres and pgAdmin, launch PgAdmin
- Select the PostgreSQL 12 server, then right click > Create > Database
- Name the new database "usa_names" and keep defaults for all other options

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.**

General   Columns   Constraints   Advanced   Parameters   Security   SQL

Inherited from table(s)	Select to inherit from...					

Columns   **+**

		Name	Data type	Length	Precision	Not NULL?	Primary key?
✎	🗑	name	text			No	No
✎	🗑	gender	character	1		No	No
✎	🗑	count	integer			No	No
✎	🗑	year	integer			No	No

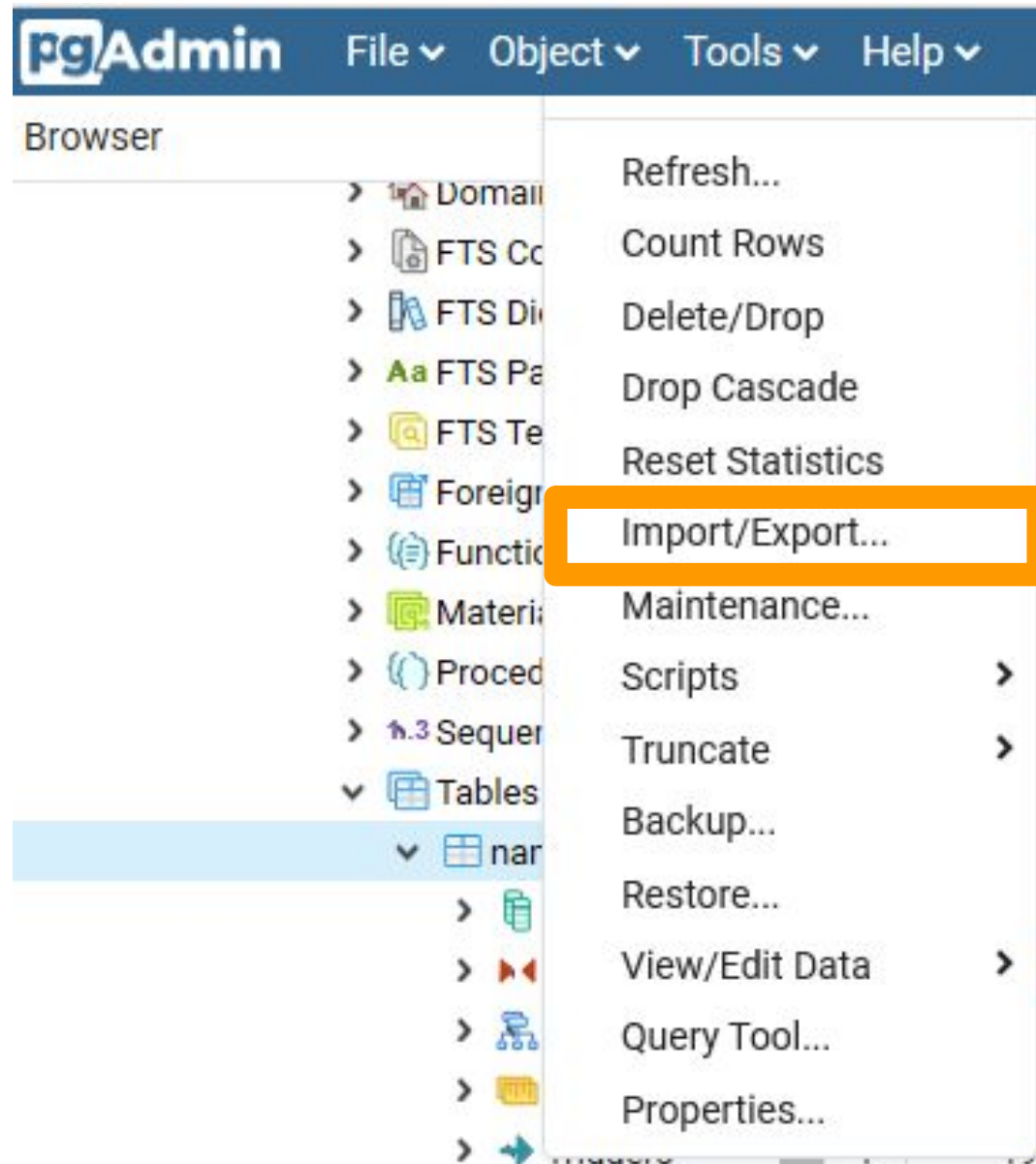ℹ   ?   ✖ Cancel   ♻ Reset   💾 Save

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

- 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 your version of pgAdmin) button or the F5 key