

# Using PostgreSQL for CHOP Analyst Data Exercise

Created: August 2019

## Installation

Download the Windows or iOS installer from:

<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>

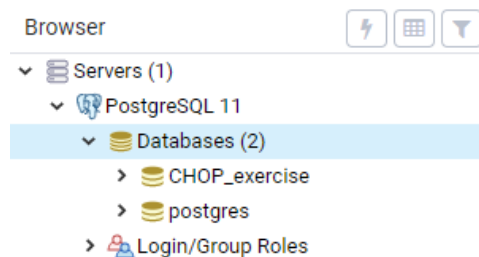
Run the .exe file and complete installation with default settings.

Close installer once complete (no additional packages required via Stack Builder)

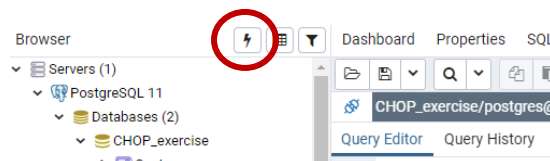
Open *pgAdmin* from programs

## Creating the Database and Tables

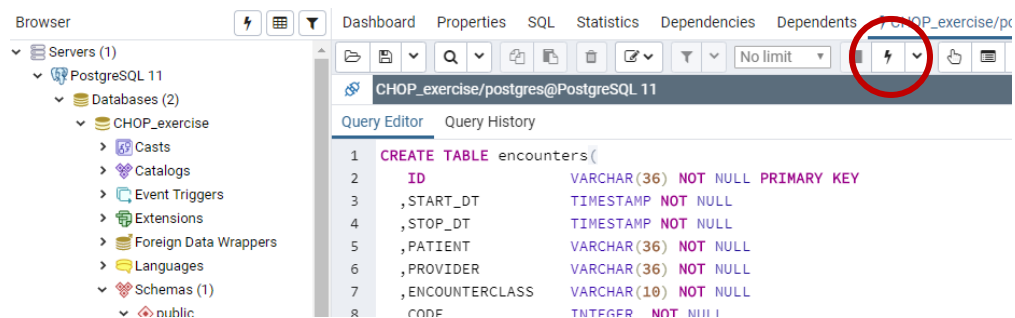
Expand the *Servers* folder in the Browser pane. Right click on *Databases* to create a new Database.



Open the Query Tool by selecting the lightning bolt on the Browser pane.



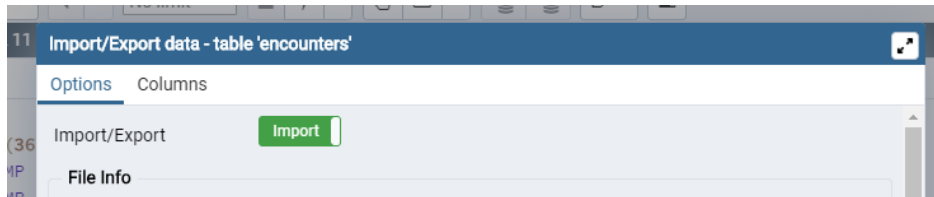
Run the provided CREATE table script.



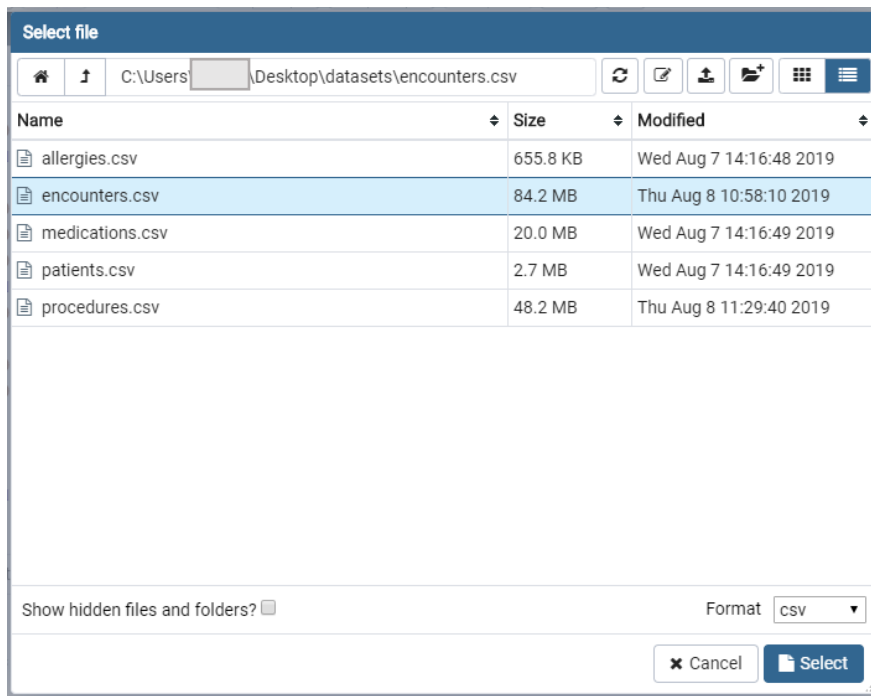
## Importing Data

Select a table name from the Browser pane (refresh list with right-click) and choose *Import/Export* from the **Tools** drop down.

Move slider to Import.



Navigate to the csv file corresponding to selected table.



Set import options (**Header** = Yes, **Delimiter** = Comma, **Escape** = " , **NULL Strings** = NA).

The screenshot shows the 'Import/Export data - table 'allergies'' dialog box with the 'Options' tab selected. The 'Miscellaneous' section contains the following settings:

- OID:** No
- Header:** Yes
- Delimiter:** ,  
Specifies the character that separates columns within each row (line) of the file. The default is a tab character in text format, a comma in CSV format. This must be a single one-byte character. This option is not allowed when using binary format.
- Quote:** "  
Specifies the quoting character to be used when a data value is quoted. The default is double-quote. This must be a single one-byte character. This option is allowed only when using CSV format.
- Escape:** "  
Specifies the character that should appear before a data character that matches the QUOTE value. The default is the same as the QUOTE value (so that the quoting character is doubled if it appears in the data). This must be a

At the bottom right are 'Cancel' and 'OK' buttons.

The screenshot shows the 'Import/Export data - table 'allergies'' dialog box with the 'Columns' tab selected. The settings are as follows:

- Columns to import:** start, stop, patient, encounter, code, description  
An optional list of columns to be copied. If no column list is specified, all columns of the table will be copied.
- NULL Strings:** NA  
Specifies the string that represents a null value. The default is \N (backslash-N) in text format, and an unquoted empty string in CSV format. You might prefer an empty string even in text format for cases where you don't want to distinguish nulls from empty strings. This option is not allowed when using binary format.
- Not null columns:** Not null columns...  
Do not match the specified column values against the null string. In the default case where the null string is empty, this means that empty values will be read as zero-length strings rather than nulls, even when they are not quoted. This option is allowed only in import, and only when using CSV format.

At the bottom right are 'Cancel' and 'OK' buttons.

Repeat import steps for four remaining tables.