

# Power Pivot

ODBC DSNs + Power Pivot Setup

In order to load data from a PostgreSQL database on AWS, you will need to create an Open DataBase Connectivity (ODBC) DataSet Name (DSN).

To create a connection to our database on AWS, we will need the drivers that let ODBC communicate with our database.

1. Install PostgreSQL ODBC Driver from <https://www.postgresql.org/ftp/odbc/versions/msi/> Select the most recent version from the bottom of the list.

A screenshot of a web page showing a list of PostgreSQL ODBC driver downloads. The list is organized into columns: file name, date, and size. The file names follow a pattern: 'psqlodbc\_YY\_MM\_0000-arch.zip', where YY and MM represent the year and month. The dates are in YYYY-MM-DD HH:MM:SS format. The sizes are in MB. A red arrow points from the left towards the bottom of the list, and a red rectangular box highlights the last row, 'psqlodbc\_12\_01\_0000.zip', which is the most recent version shown.

psqlodbc_10_02_0000-x64.zip	2018-03-30 14:31:45	4.4 MB
psqlodbc_10_02_0000-x86.zip	2018-03-30 14:31:45	4.2 MB
psqlodbc_10_02_0000.zip	2018-03-30 14:31:45	8.9 MB
psqlodbc_10_03_0000-x64.zip	2018-05-19 13:14:46	4.4 MB
psqlodbc_10_03_0000-x86.zip	2018-05-19 13:14:46	4.2 MB
psqlodbc_10_03_0000.zip	2018-05-19 13:14:46	9.0 MB
psqlodbc_11_00_0000-x64.zip	2018-11-17 13:50:44	3.5 MB
psqlodbc_11_00_0000-x86.zip	2018-11-17 13:50:44	3.0 MB
psqlodbc_11_00_0000.zip	2018-11-17 13:50:44	6.8 MB
psqlodbc_11_01_0000-x64.zip	2019-05-24 14:28:42	3.5 MB
psqlodbc_11_01_0000-x86.zip	2019-05-24 14:28:42	3.0 MB
psqlodbc_11_01_0000.zip	2019-05-24 14:28:42	6.8 MB
psqlodbc_12_00_0000-x64.zip	2019-10-11 14:14:32	3.7 MB
psqlodbc_12_00_0000-x86.zip	2019-10-11 14:14:32	3.3 MB
psqlodbc_12_00_0000.zip	2019-10-11 14:14:32	7.3 MB
psqlodbc_12_01_0000-x64.zip	2020-01-07 13:53:45	3.6 MB
psqlodbc_12_01_0000-x86.zip	2020-01-07 13:53:45	3.3 MB
psqlodbc_12_01_0000.zip	2020-01-07 13:53:45	7.3 MB

2. Find the version of Excel you are using (32-bit is most likely) before setting up a dataset name (DSN) on Windows:

a. In order to verify Excel, open Excel → File → Account → click on “About Excel” (look for the pop-up information below and confirm size)

About Microsoft® Excel® for Office 365

Microsoft® Excel® for Office 365 MSO (16.0.12527.20170) 32-bit

Product ID: 00202-52471-13603-AA348

Session ID: 7D8D7410-CCED-428E-8C51-77A7468654CE

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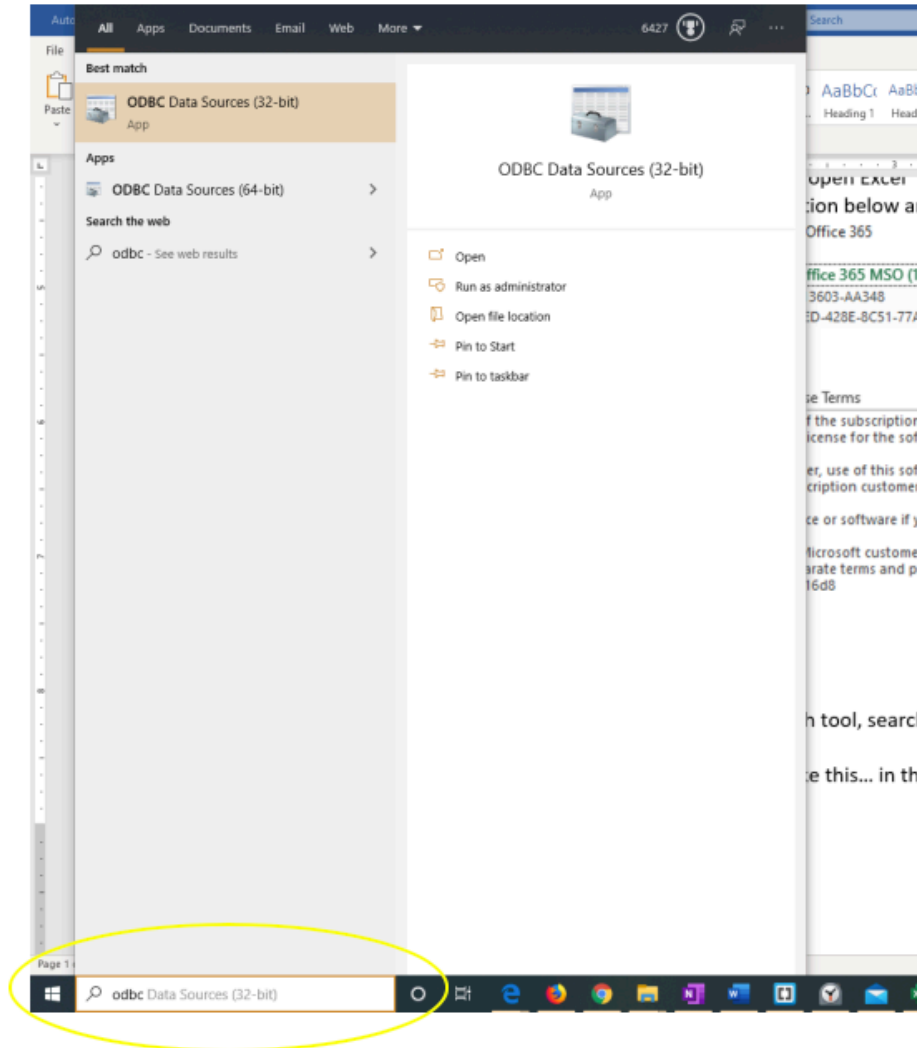
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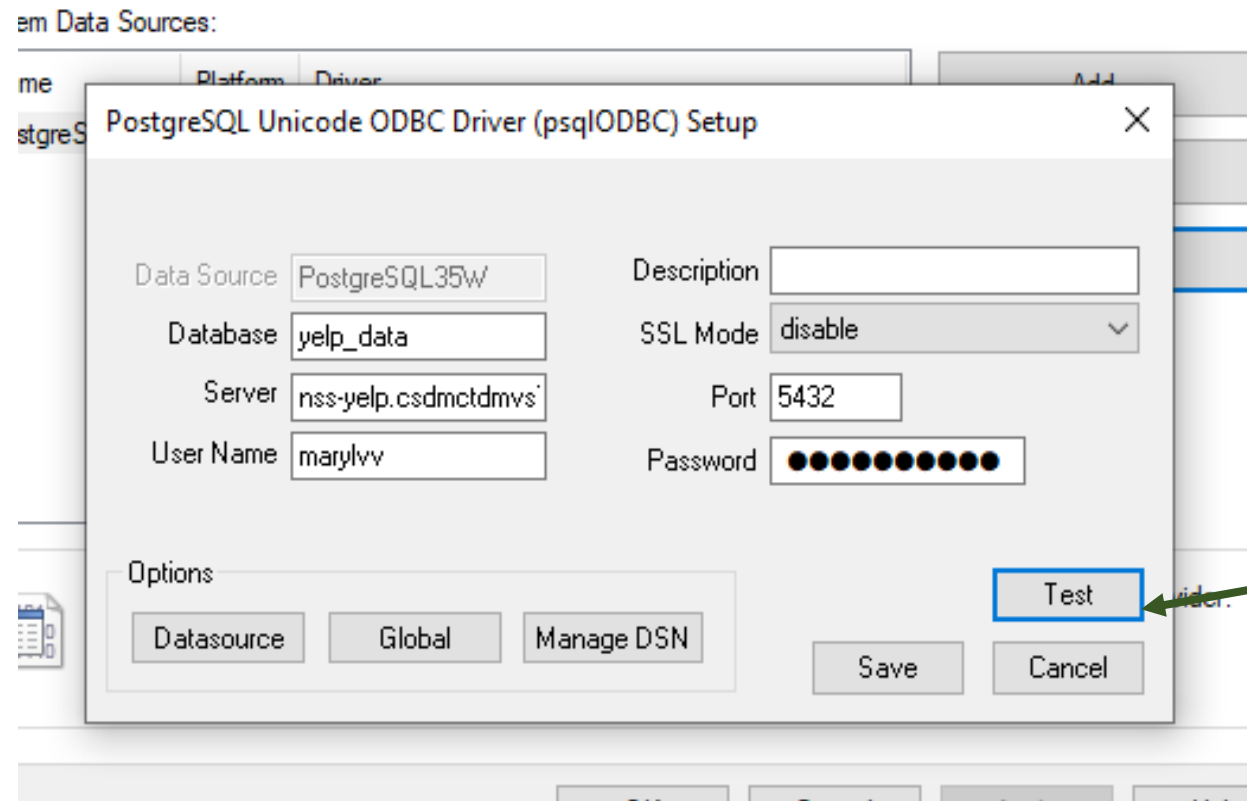
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b. In your computer search tool, search for 'odbc' and open the ODBC Data Sources that match your version of Excel.

It will look like this... in the bottom left corner of your toolbar

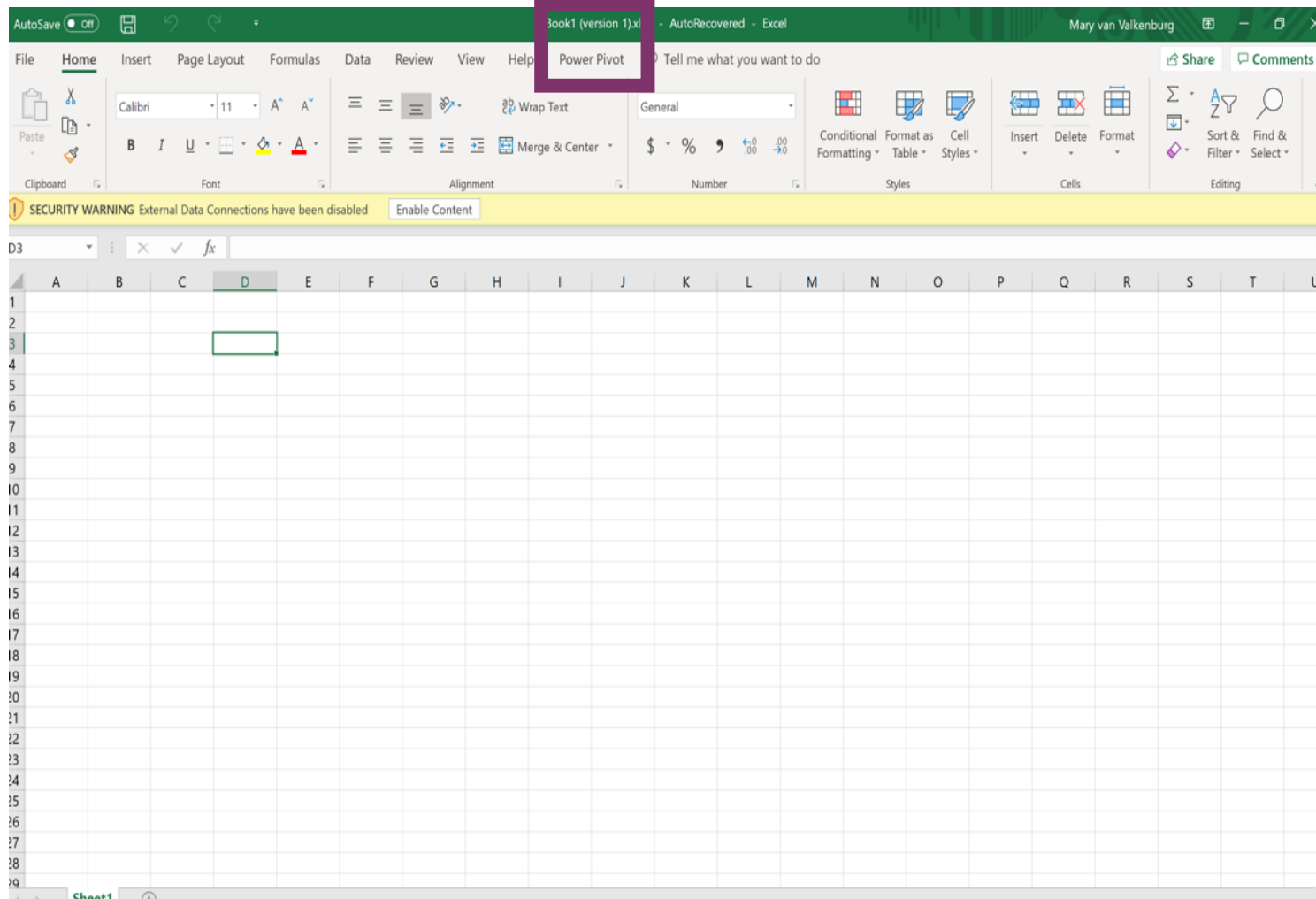


- c. Create a new *System DSN* called PostgreSQL35W (this is the default name that ODBC creates).  
Select the System DSN tab → click Add → from the New Data Source list, select PostgreSQL Unicode.  
Database is **yelp\_data**  
Server is **nss-yelp.csdmctdmvs7t.us-east-1.rds.amazonaws.com**  
User Name is **marylvv**  
Port is **5432**  
Password is **nssAWS2019**

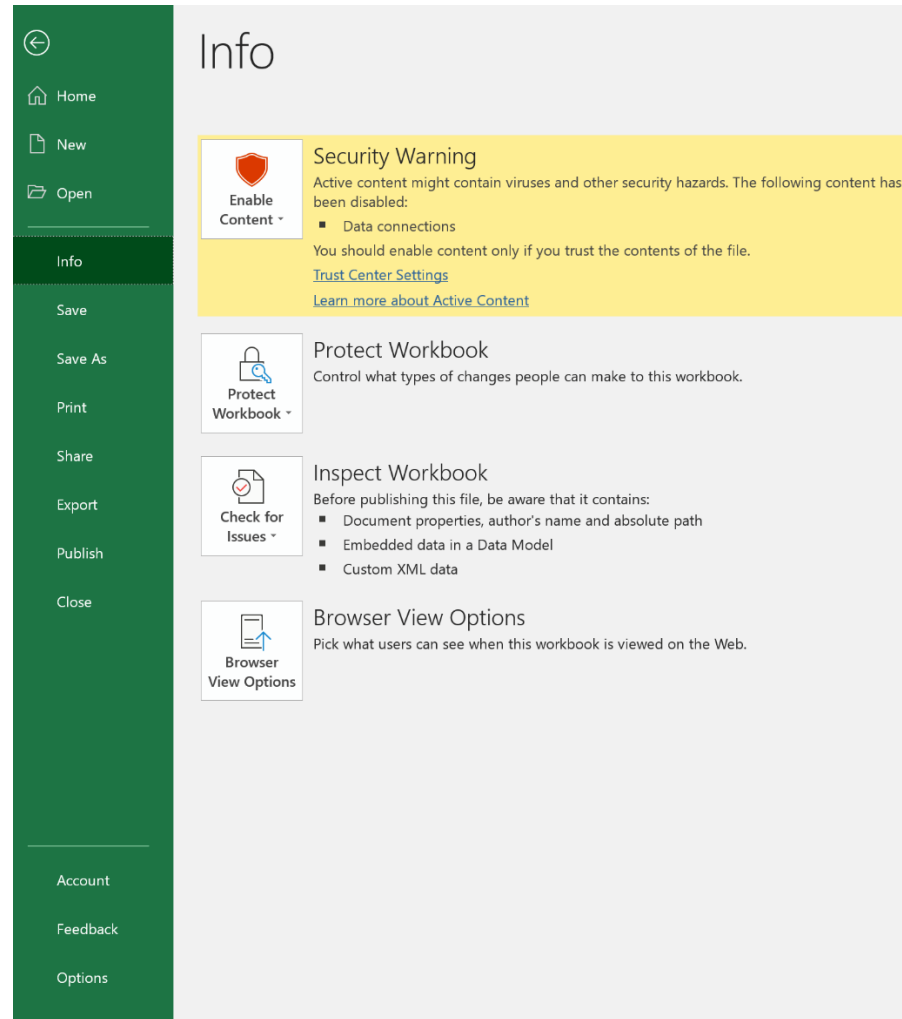
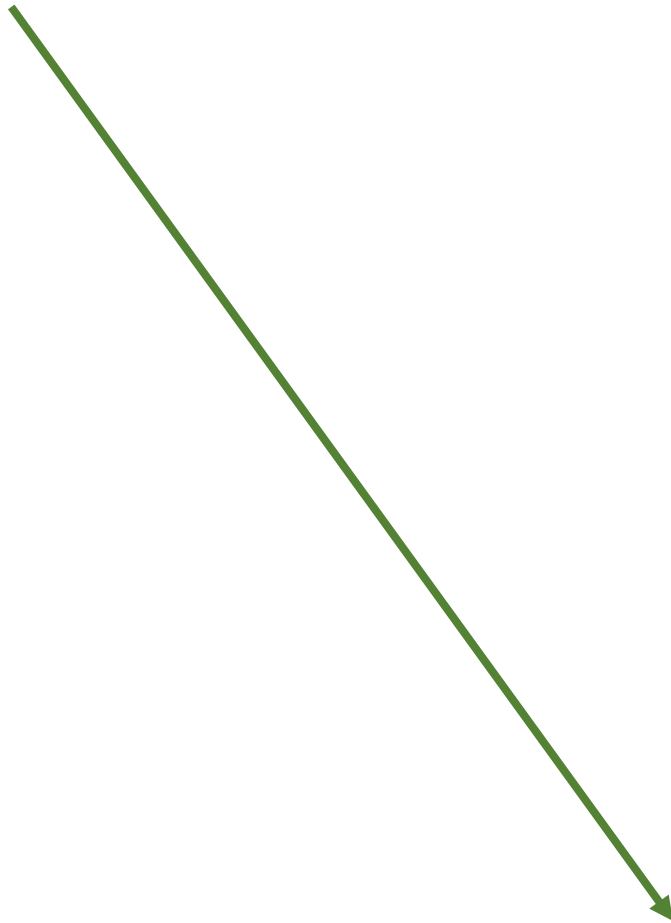


After completing the configuration, click **Test**

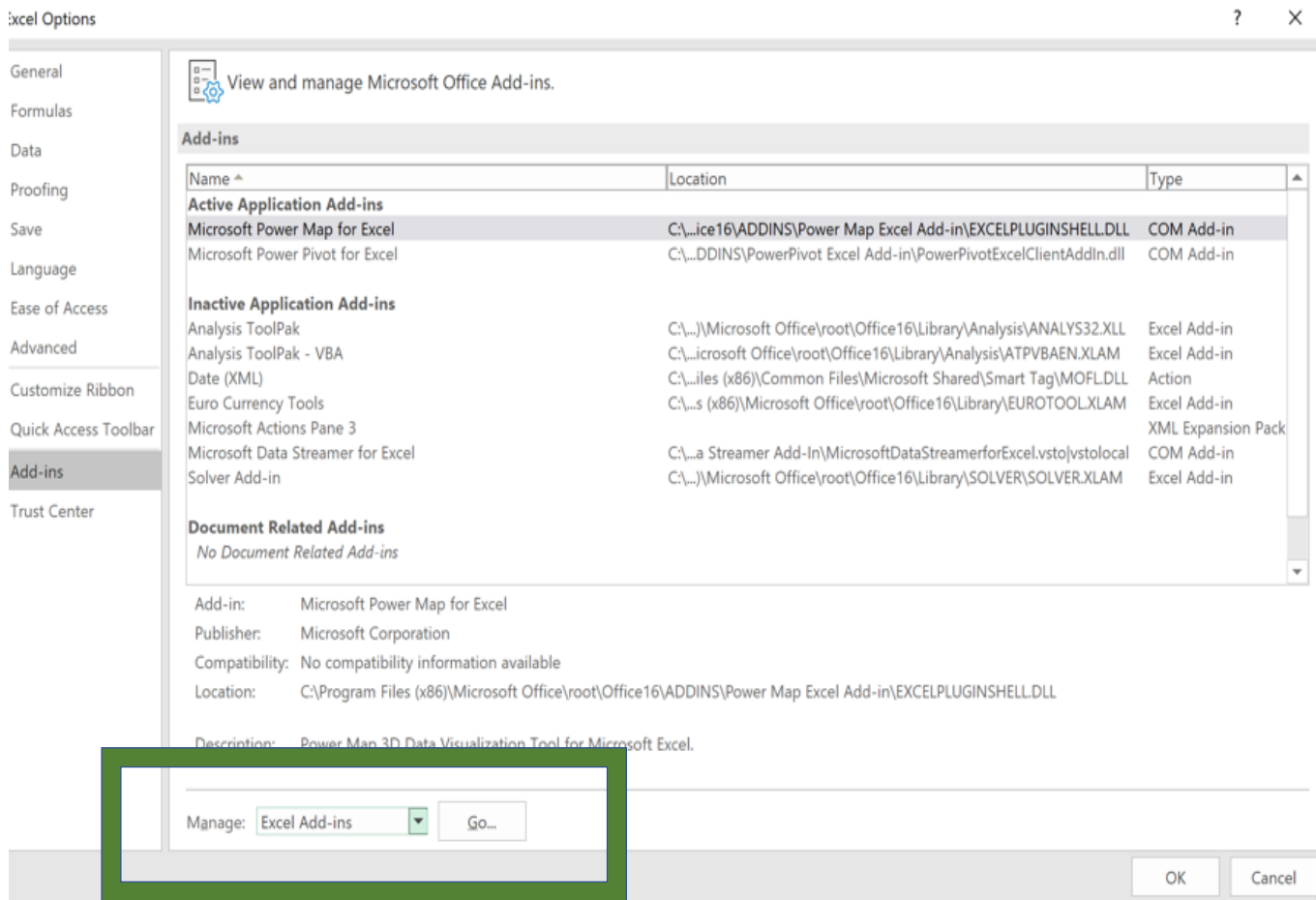
3. Launch Excel and look for the PowerPivot tab. If it is there, go to step 4, otherwise follow the next few steps to install the power pivot add-in.



Go to File → Options (at bottom of green ribbon)

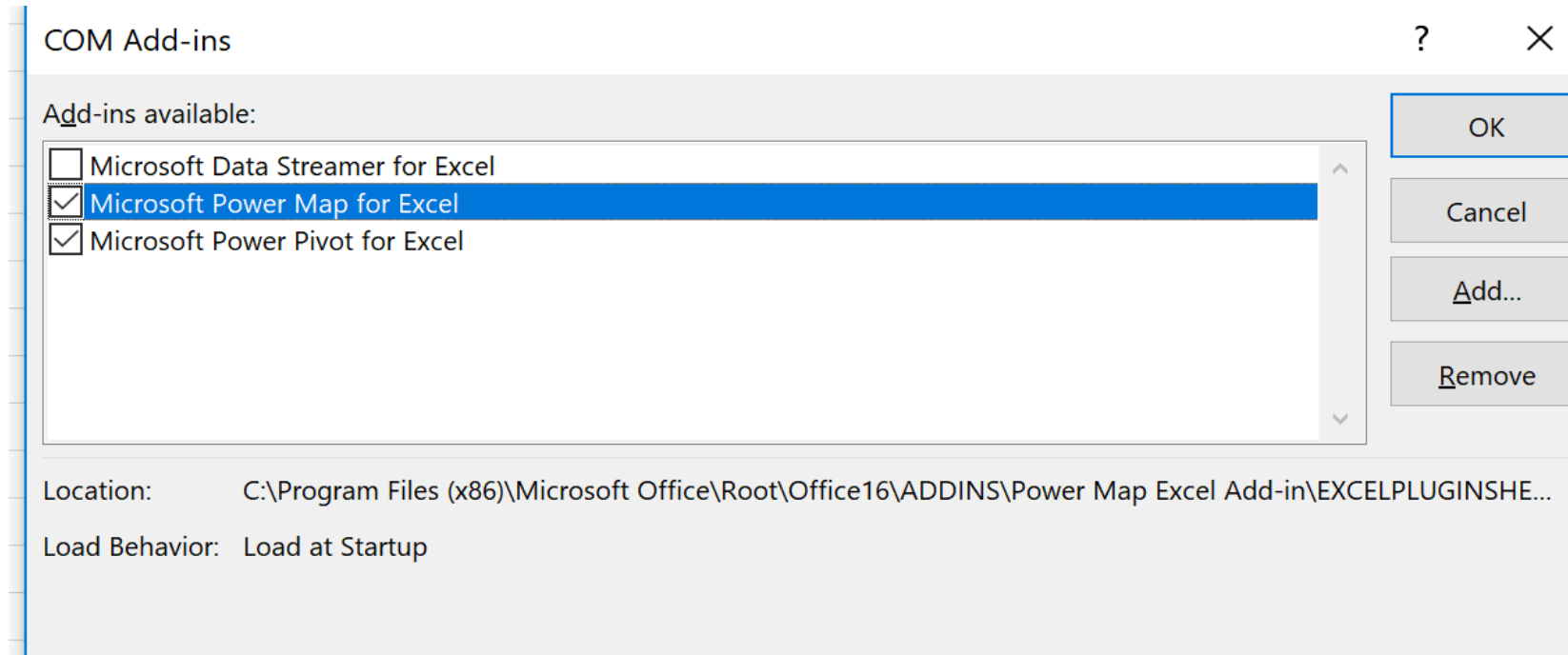


From the Options window, select **Add-ins**. You will see a list of Active and Inactive add-ins. Since Power Pivot is a **COM** Add-in, change the drop down at the bottom to Manage **COM Add-ins** and hit the **Go** button



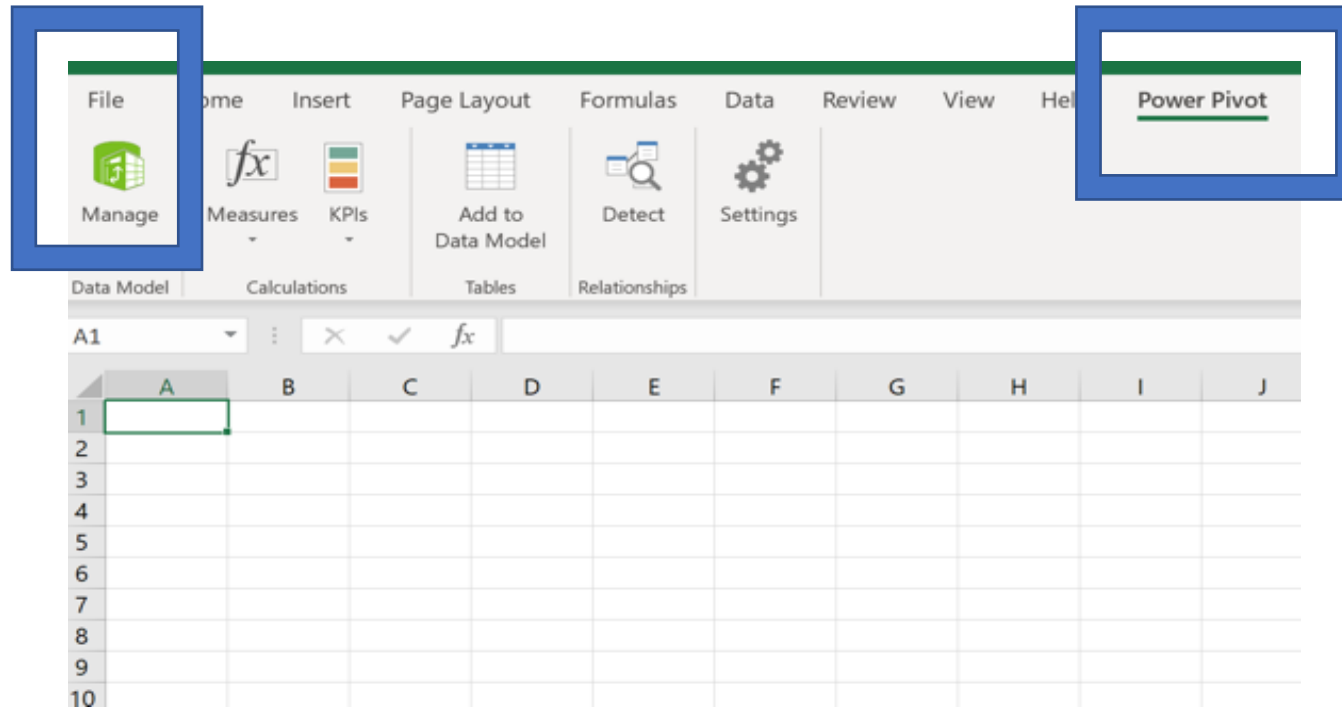


Check the box next to **Microsoft Power Pivot for Excel**. Go ahead and get **Microsoft Power Map for Excel** while you're here and select **OK**

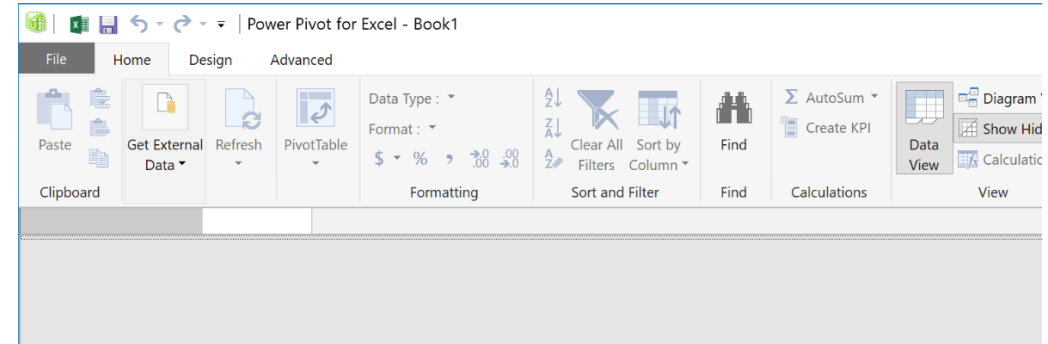


Restart Excel.

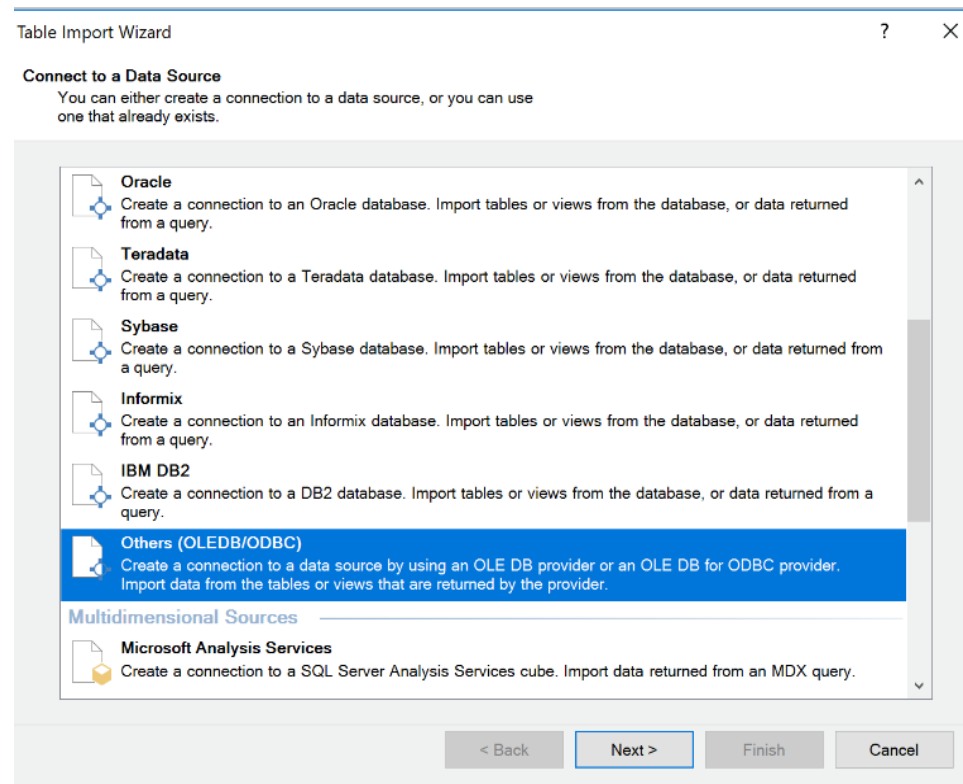
4. Select the **Power Pivot** tab. Then click on **Manage**.



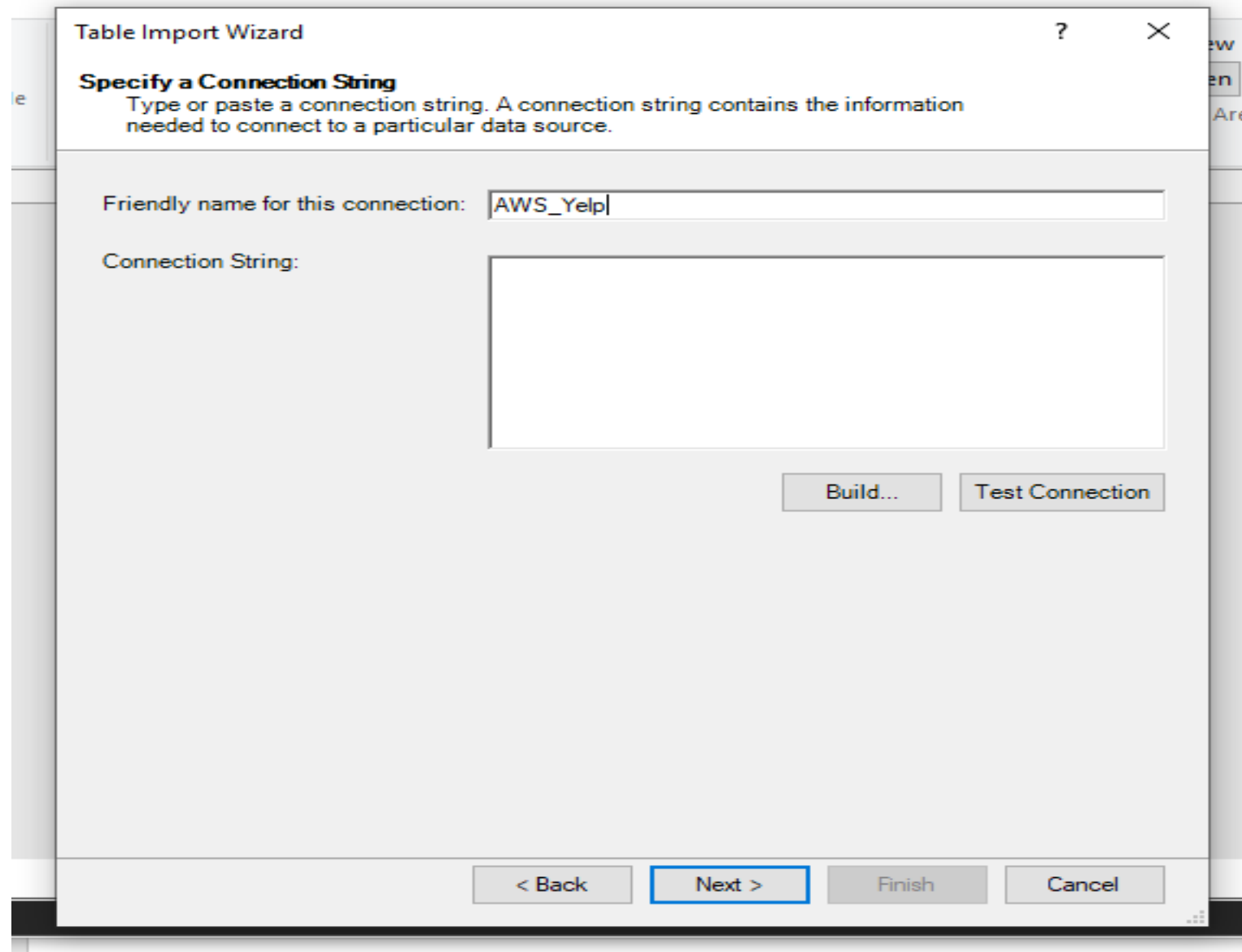
5. Next select **Get External Data → From Other Sources**



6. A window will pop up showing the **Table Import Wizard**. Scroll down to the **Others (OLEDB/ODBC)** option. Select it and click the **Next** button.



7. Give your connection a good (meaningful) name and select **Build**



The image shows a 'Table Import Wizard' dialog box. The title bar says 'Table Import Wizard' with a question mark and a close button. The main heading is 'Specify a Connection String'. Below it, a subtitle reads: 'Type or paste a connection string. A connection string contains the information needed to connect to a particular data source.' There are two input fields: 'Friendly name for this connection:' with the text 'AWS\_Yelp' entered, and 'Connection String:' which is an empty text area. At the bottom right of the main area are two buttons: 'Build...' and 'Test Connection'. At the very bottom of the dialog are four buttons: '< Back', 'Next >' (which is highlighted with a blue border), 'Finish', and 'Cancel'.

Table Import Wizard

**Specify a Connection String**  
Type or paste a connection string. A connection string contains the information needed to connect to a particular data source.

Friendly name for this connection:

Connection String:

8. Specify the name of your DSN (**PostgreSQL35W** for the Yelp Data on AWS). Enter the username and password as before username: **marylvv**, password: **nssAWS2019**. Check the box to allow saving password, and then test the connection. If you can connect successfully, click the `OK` button

**Data Link Properties**

Provider Connection Advanced All

Specify the following to connect to ODBC data:

1. Specify the source of data:

☒ Use data source name

PostgreSQL35W Refresh

☐ Use connection string

Connection string:

Build...

2. Enter information to log on to the server

User name: marylvv

Password: ●●●●●●●●●●

☐ Blank password ☐ Allow saving password

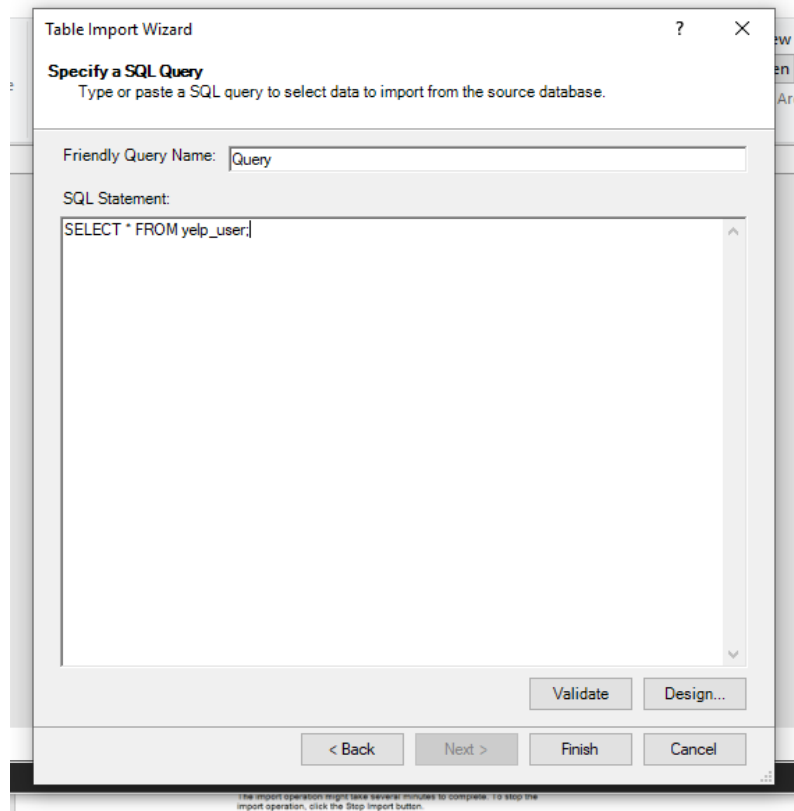
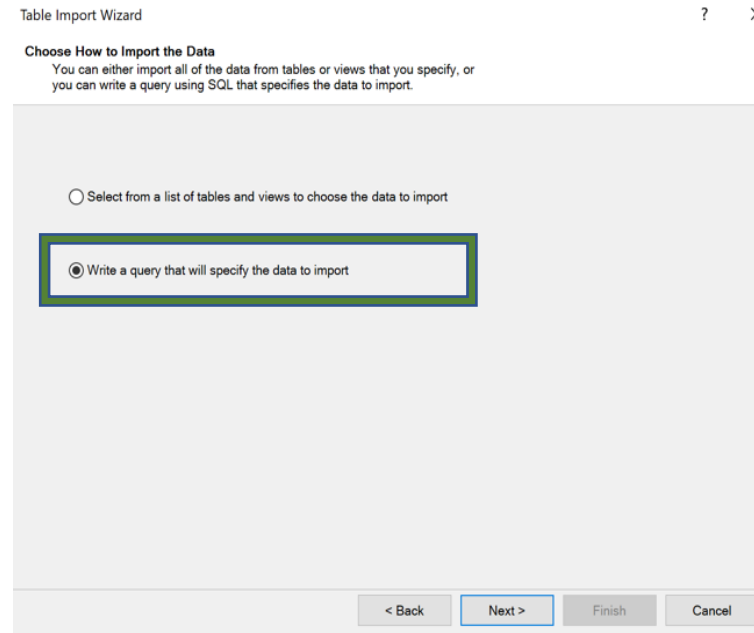
3. Enter the initial catalog to use:

Test Connection

OK Cancel Help

< Back Next > Finish Cancel

## 9. Select the option to write a query to import data.



## 10. Get some data!

a. Use the query **SELECT \* FROM yelp\_user;** to return all the rows in the user table.

b. Click the **Validate** button to make sure all is well with your query. (**all\_users** would have been a much better query name than **Query**)

c. Click the **Finish** button.

11. Your data will import and show the following success message. Your data will be loaded to the spreadsheet.

