Learning the basics of Python in Power BI

INTRODUCTION TO PYTHON IN POWER BI

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datacamp

Prerequisite knowledge

Power BI

Introduction to DAX in Power BI

Python

Introduction to Data Visualization with Seaborn

What we will be learning

Power BI

- Importing and joining data with Power Query

- Finding missing data with Power Query

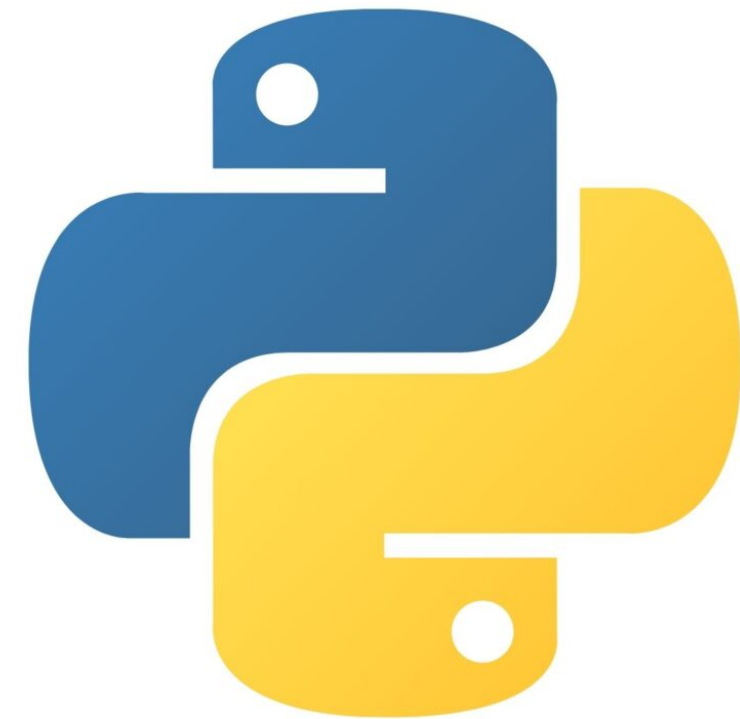- Calculating Correlation Coefficient with Quick Measures

Python

- Importing and joining data with pandas

- Finding missing data and imputation

- Creating visualizations with Seaborn
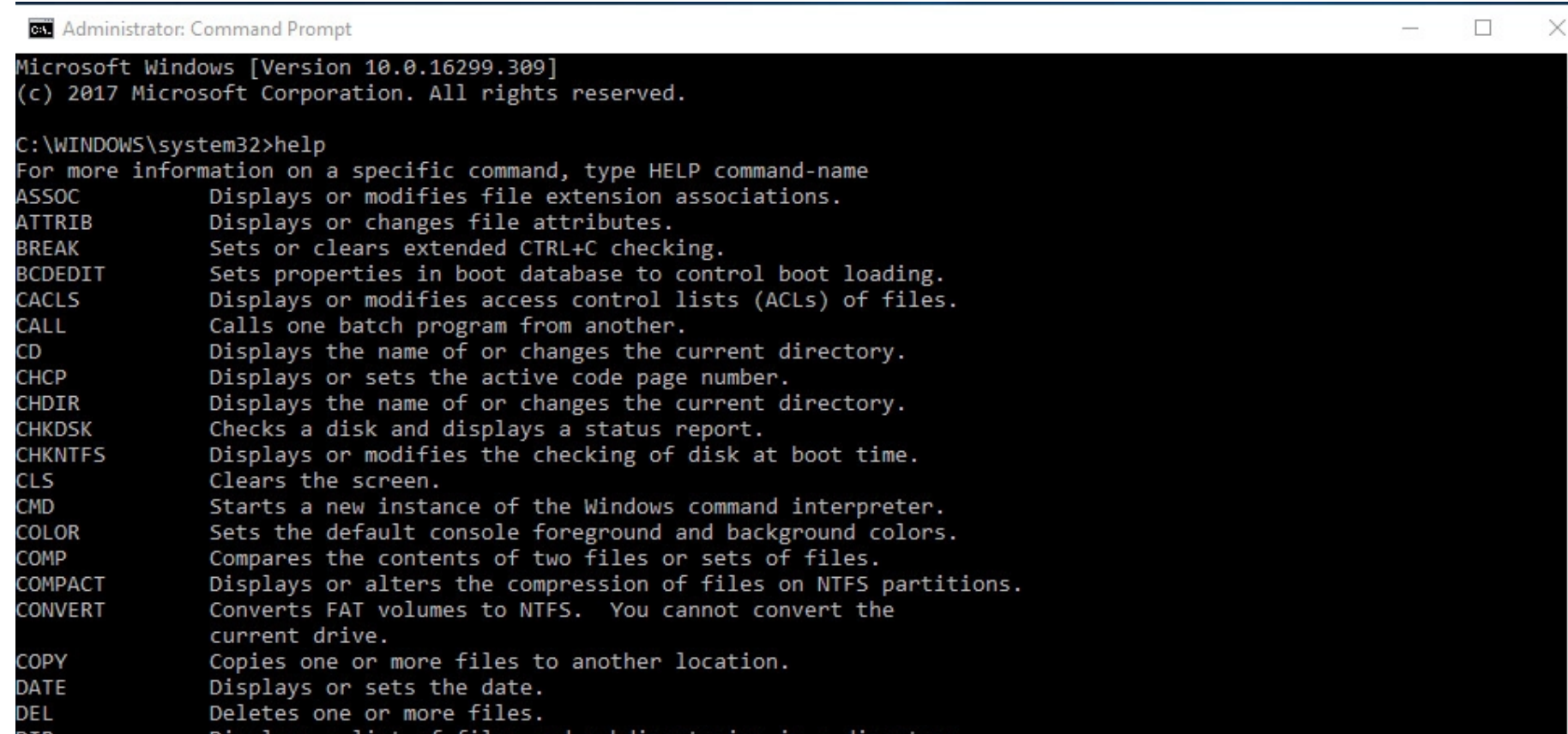
Getting started - downloading Python

https://powerbi.microsoft.com/downloads/   https://www.python.org/downloads/

Getting started - installing packages

The two required Python packages are:

- pandas

- matplotlib

[1] https://packaging.python.org/en/latest/tutorials/installing-packages/

Getting started - Power BI

"File" > "Options and settings" > "Options" > "Python scripting"

- Home Directories

- Integrated Development Environments (IDE)

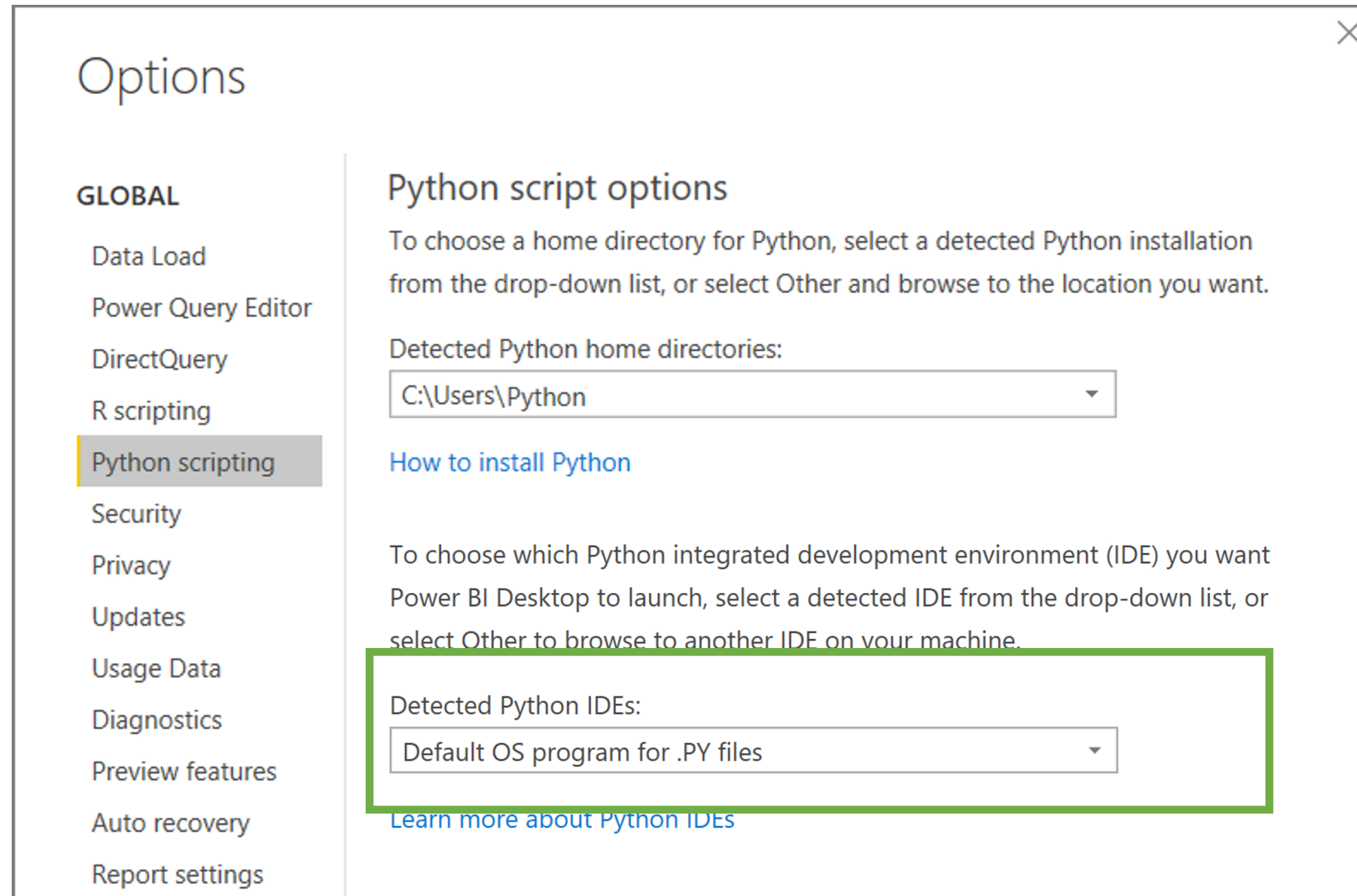[1] https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-python-scripts
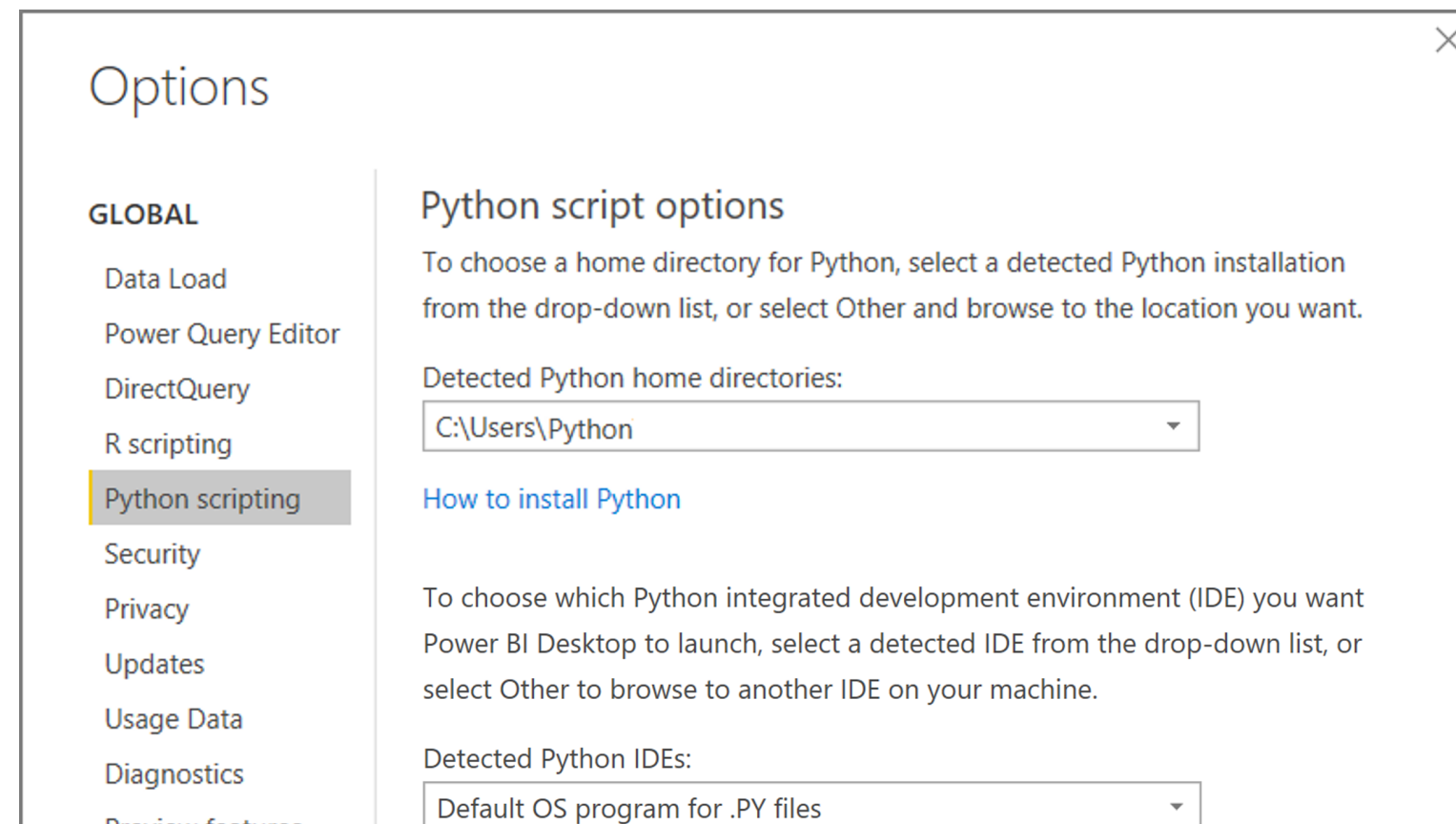
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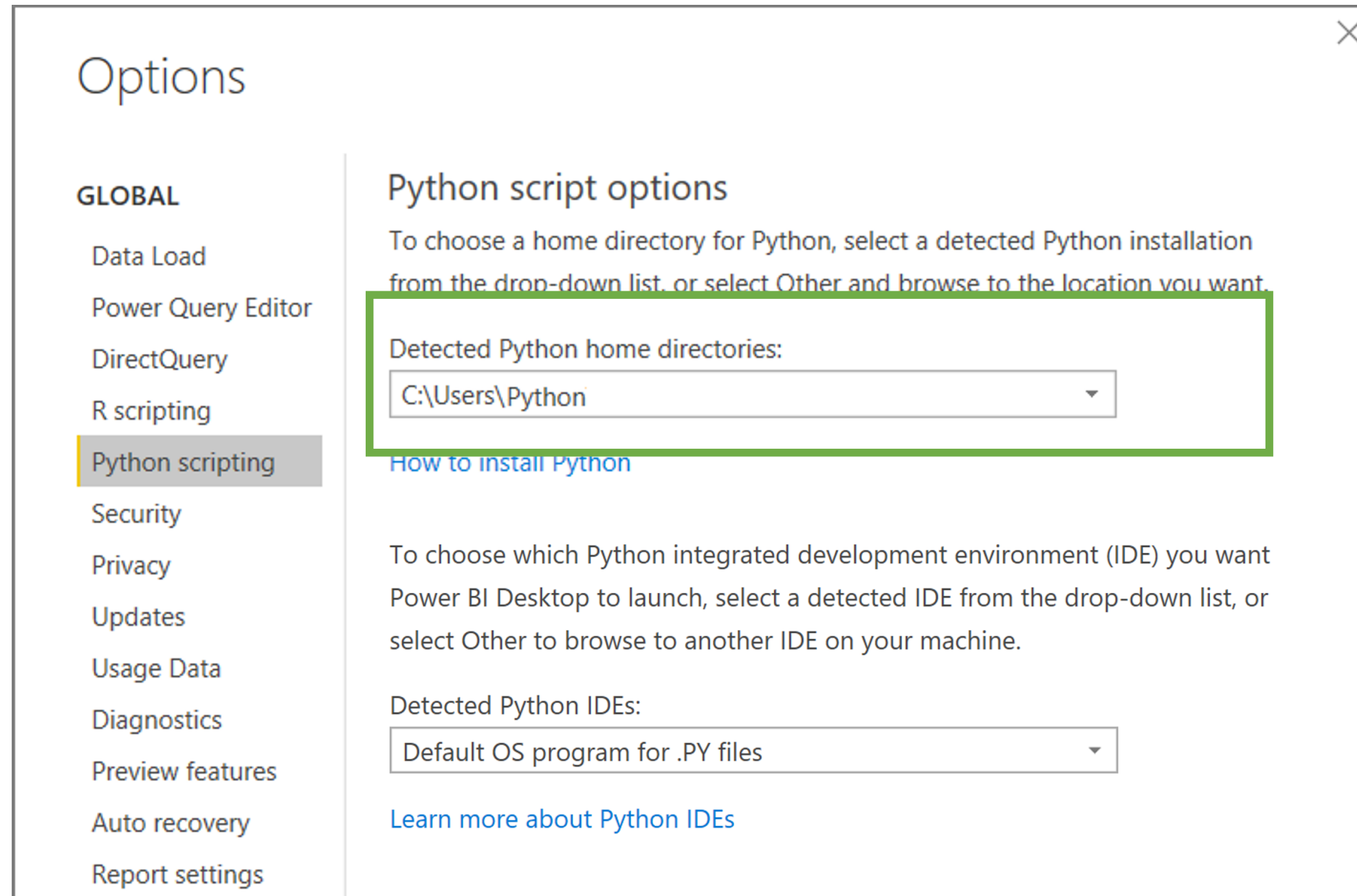
Getting started - Power BI

Limitations

- DataFrames temporarily saved

- 150,000 rows used in visualizations

- Datasets less than 250 MB

- Datasets set to "Public"

Benefits and reasons to learn...

Python as a Power BI user

- Flexibility in data transformations

- Easier method for difficult calculations

- Build custom visualizations

Power BI as a Python user

- Faster data visualization

- Build quick reporting dashboards

- Easier sharing with others

Datasets

fished.csv

entity	year	fished
Australia	1990	153148
United States	1990	502923
Japan	1990	567895

farmed.csv

entity	year	farmed
Australia	1990	23567
United States	1990	436758
Japan	1990	534978

Let's practice!

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Set up, import, and transform data

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