

# Out of Your SSMS World, Jupyter Notebooks in Azure Data Studio

Louisville Data User Group  
February 2023



# Steve Hughes



- Senior Director, Data & Analytics, 3Cloud
- Founder, Data on Wheels & Data on Rails
- 20+ Years with SQL Server, Microsoft BI, and Azure
- Working with ALS, adapting and growing
- <https://www.linkedin.com/in/dataonwheels/>
- [steve@dataonwheels.com](mailto:steve@dataonwheels.com)
- Blog: [www.dataonwheels.com](http://www.dataonwheels.com) – Look for deck and follow up here

Microsoft  
Partner



**2022 Partner of the Year Winner**

Worldwide Winner Migration to Azure  
Worldwide Winner Solution Assessments  
US Winner Solution Assessments  
US Winner Modernizing Applications

**2022 Partner of the Year Finalist**

Worldwide Finalist Analytics  
Worldwide Finalist Healthcare & Life Sciences



# Why are we here?



## SQL Server Management Studio (SSMS)

- Our beloved friend
- Supports SQL design and queries on SQL Server
- Saves SQL files that we can share
- Supports inline comments in our code
- Runs on Windows



## Azure Data Studio

- The Challenger
- Supports SQL design and queries on SQL Server, MySQL, and others
- Can save SQL files as well as notebooks
- Supports inline comments and comments in notebook cells
- Runs on Windows, Linux and Mac



# Introducing Jupyter Notebooks

- Jupyter notebooks are an open source web application which hosts code, text, results, and even visualizations.
- Jupyter notebooks are supported in Azure Data Studio
- Jupyter notebooks are traditionally used with data science and data engineering when working with Python
- Jupyter notebooks in Azure Data Studio support Python, R, and SQL
- Today we will use notebooks to organize and document our SQL



# Introducing Jupyter Books

- What is a Jupyter book? This is an excellent question.
- This explanation is limited to the implementation of Jupyter Books in Azure Data Studio.
- A Jupyter Book in Azure Data Studio encapsulates a folder structure that allows you to share more than one folder or file at a time.
- With Azure Data Studio and GitHub, it is also possible to share a Jupyter Book publicly.

*Please note: it is difficult to find a clean definition or separation between a Jupyter Book and a Jupyter Notebook online. There are a few references to a new project from JupyterLab that is called Jupyter Book but does not appear to be the same thing as what we see here.*

# Creating a Jupyter Book and Notebooks Demo





# Q & A

*Find us at [www.dataonwheels.com](http://www.dataonwheels.com)*

*Thanks for joining us today!*