

# A Practical Starter Guide to SQL Notebooks

Deborah Melkin (she\her)

March 17, 2023

I really want to learn how to use SQL Notebooks but I don't have time to figure it out at work either.

So let's go on a quest to do this stuff together.



# Who Am I?

- 20+ years as a DBA
- NESQL Board Member
- Azure Data Community Advisory Council
- Co-Founder, WITspiration
- Speaker Idol Winner 2019
- Idera ACE, Class of 2020
- #Redgate100
- Microsoft MVP – Data Platform



# Who Am I?

- I'm the alto section leader in my choir.
- I go to bluegrass jams regularly.
- I've been learning guitar and now mandolin.
- I am a bit of a musical theater geek.
- My husband and I take pictures of our dog doing geeky things.

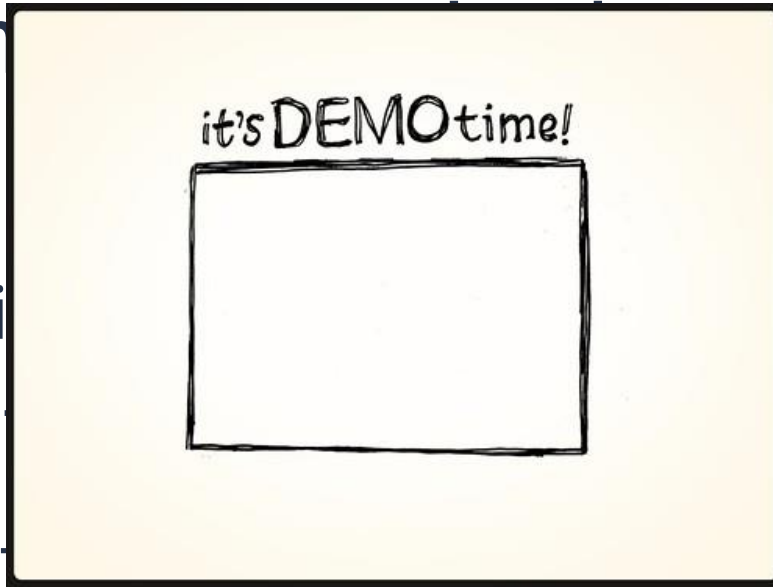


MVP



# Agenda

- Get to know the User Interface
- Use Cases
  - ▷ Troubleshooting
  - ▷ Development
  - ▷ Interaction with



“ *Before we continue -  
Did we check in our code???*

# Advantages of SQL Notebooks

- Documentation
- Ability to save results with the queries
- Can use the same tool for multiple kernels
- Can be run by PowerShell and SQL Agent Jobs
- Monthly Updates to Azure Data Studio
- The Experience team is paying attention

# Limitations of SQL Notebooks

- 1 Kernel Per SQL Notebook – Either SQL or PowerShell or Python, etc.
  - Exception – Polyglot Notebooks
- Polyglot is technically still in Preview
- No Execution Plan for the query built in for Notebooks
- Adjustment to a new tool



# References

- [Azure Data Studio Git Hub](#)
- Notebooks that show [features from SQL 2019](#)
- List of [nuget package versions](#) for  
Microsoft.DotNet.Interactive.SQLServer
- .NET Conf 2022 - [The Power of Polyglot Notebooks](#)  
(YouTube)

# References (cont'd)

- Microsoft DevBlogs about Polyglot notebooks (with demos)
  - ▷ <https://devblogs.microsoft.com/dotnet/dotnet-interactive-notebooks-is-now-polyglot-notebooks/>
  - ▷ <https://devblogs.microsoft.com/dotnet/net-interactive-preview-3-vs-code-insiders-and-polyglot-notebooks/>
  - ▷ <https://devblogs.microsoft.com/dotnet/net-interactive-with-sql-net-notebooks-in-visual-studio-code/>

# References – Community References

- Glenn Berry - [Diagnostic Queries in Notebooks](#)
- Aaron Nelson - [Automating SQL Notebooks](#)
- Rob Sewell - [Module for creating Notebooks with PowerShell](#)

# More Resources

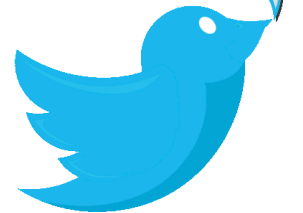
- SQLCommunity Slack: #azure-data-studio
- Twitter: @AzureDataStudio

# Any Other Questions?

- **Email:** [dgmelkin@gmail.com](mailto:dgmelkin@gmail.com)
- **Twitter:** @dgmelkin
- **Mastodon:** [dataplatform.social/@dgmelkin](https://dataplatform.social/@dgmelkin)
- **Blog:** [DebtheDBA.wordpress.com](https://debthedba.wordpress.com)
- **Github:** [DebtheDBA - PracticalStarterGuideSQLNotebooks](https://github.com/dgmelkin/DebtheDBA-PracticalStarterGuideSQLNotebooks)
  - ▶ **DB Scripts:** <https://tinyurl.com/y22ys3oc>



twitter...





**Thanks for Coming!!!**