

A Practical Starter Guide to SQL Notebooks

Deborah Melkin

Tech Valley User Group

July 13, 2021

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 figure out how to do this stuff together.

Who Am I?

- 20 years as a DBA
- Mainly work with SQL Server
- Mainly work with OLTP but have worked with some data marts.
- NESQL Board Member
- SQL Saturday\User Group Speaker
- IDERA ACE Class of 2020
- Speaker Idol Winner 2019
- Microsoft MVP – Data Platform

- Pronouns: she\her

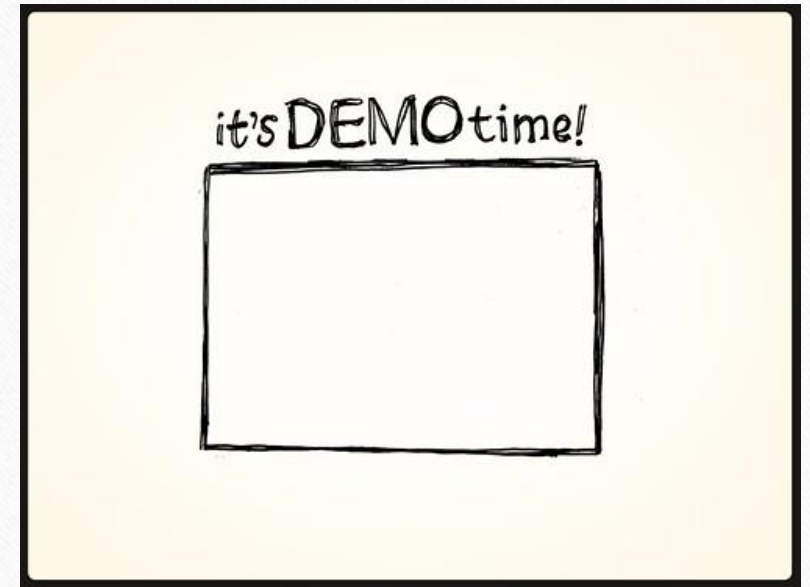
Random facts:

- 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.



Agenda

- Get to know the SQL Notebook interface
- Use Cases
 - Troubleshooting Cheat Sheet
 - Development Testing Procedures
 - Using Notebooks Available to the Community
 - Interaction with SSMS



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

Advantages of SQL Notebooks

- Documentation
- Collaboration
- Ability to save results with the queries
- Can use the same tool for multiple kernels
- Can be run by PowerShell and otherwise automated.
- Lots of shared resources
- Monthly Updates to Azure Data Studio
- Azure Data Studio team is paying attention.

Limitations of SQL Notebooks

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

References

- <https://github.com/microsoft/azuredatastudio>
 - <https://github.com/microsoft/azuredatastudio/tree/main/samples>
- <https://glennsqlperformance.com/resources/>
- <http://sqlvariant.com/2019/09/automate-your-sql-notebooks-with-two-new-options/>
- <https://github.com/sqlcollaborative/ADSNotebook>
- <https://github.com/microsoft/sql-server-samples/tree/master/samples/features/sql2019notebooks>

References (cont'd)

- <https://www.youtube.com/watch?v=938jBJ-tK3c>
- <https://devblogs.microsoft.com/dotnet/net-interactive-with-sql-net-notebooks-in-visual-studio-code/>

More Resources

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

Any Other Questions?

- **Email:** dgmelkin@gmail.com
- **Twitter:** @dgmelkin
- **Blog:** DebtheDBA.wordpress.com
- **Github:**
 - **Session:** <https://tinyurl.com/y5lfkmvm>
 - **DB Scripts:** <https://tinyurl.com/y22ys3oc>



Thanks for Coming!!!

