

# A Practical Starter Guide to SQL Notebooks

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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.



# Thank you to our Sponsors!!!!



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# Who Am I?



**MVP**

- 20+ years as a DBA
- Mainly work with SQL Server
- Mainly work with OLTP but have worked with some data marts.
- NESQL Board Member
- Azure Data Community Advisory Council
- Speaker Idol Winner 2019
- #Redgate100
- Microsoft MVP – Data Platform
- Pronouns: she\her

## Random facts:

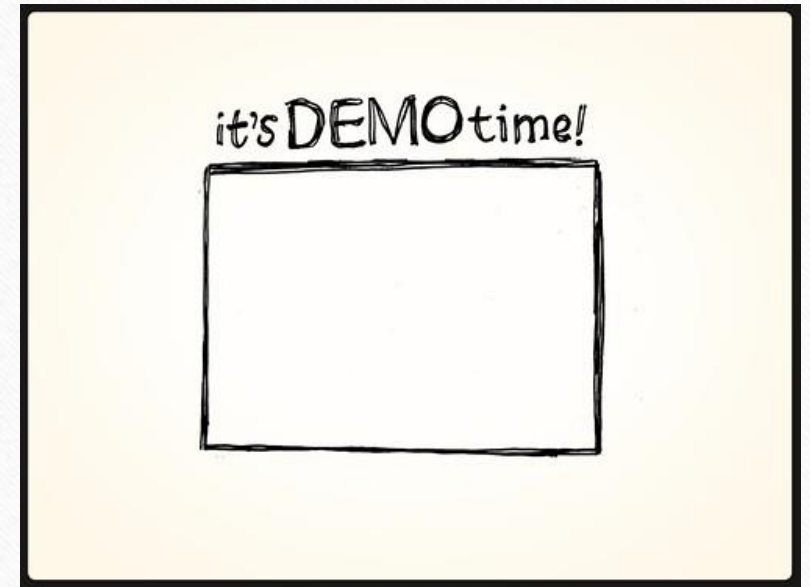
- I'm the alto section leader in my choir.
- I go to bluegrass jams regularly.
- I've been learning guitar and now mandolin.
- I am a bit of a musical theater geek.
- Geeks out with husband, Andy, & dog, Sebastian



# Agenda

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- 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???

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# Advantages of SQL Notebooks

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- 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

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



# References

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- <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)

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



# More Resources

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

# Any Other Questions?

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





# Thanks for Coming!!!

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