

You're starting out in the work field of a DBA. Just as I did about ten years ago.

There is a lot of information out there, you'll here names drop but who are they. You'll here about tools and probably that you can't do your job without "this tool". And just when you got used to all the on-premises stuff, there's the cloud. Where everything changes on a daily basis.

If you're reading this, you've already taken a very important step, you're out here learning on your day off. Excellent! Now I'll take you along my journey towards becoming a DBA, both on-premises and on Azure. It's fun, it's hard work but very rewarding!

I'll show you my favorite tools, books and scripts to give you some structure in advancing your knowledge. I'll show you some techniques I'm using to dive deeper into subjects that interest me and more.

What they should
have told me about
becoming a DBA

#DataSatSto

13-05-2023





REBTECH



solarwinds 



dbWatch

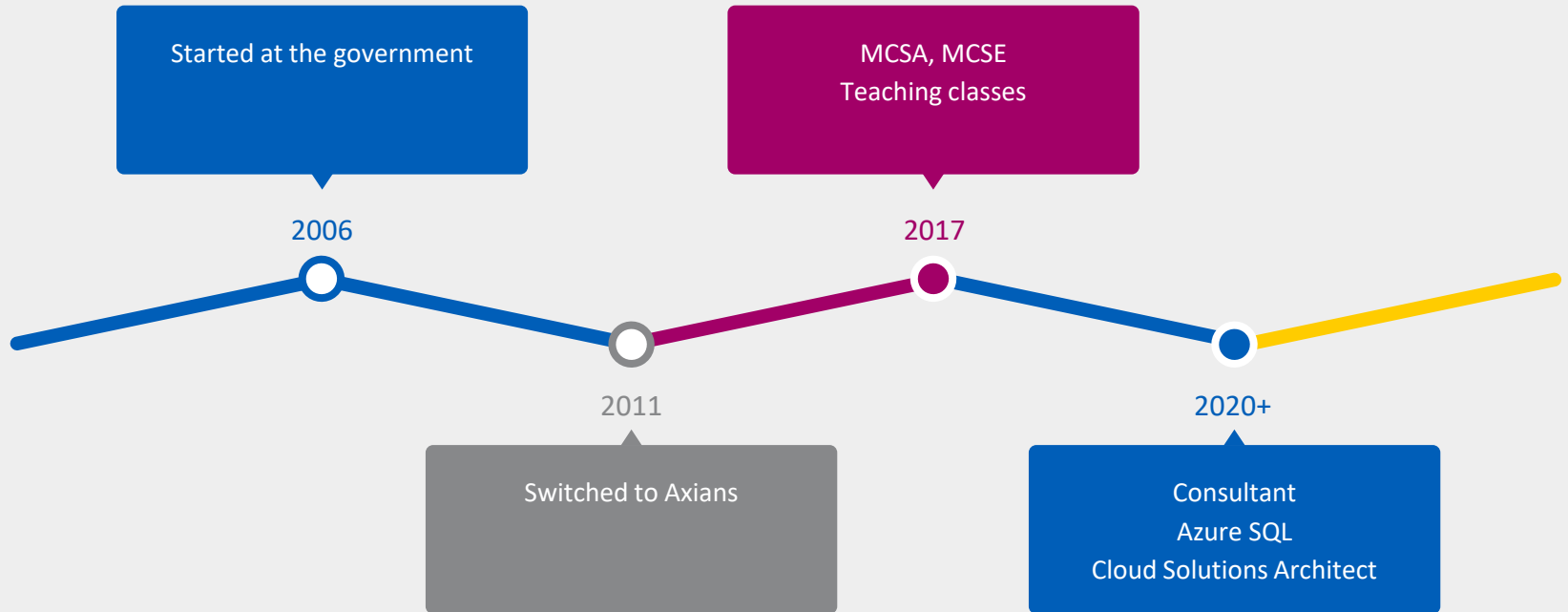


redgate

devart

 *Snabbfoting*

HOW DID I GET UP HERE







Reitse Eskens

Technical Consultant | Architect

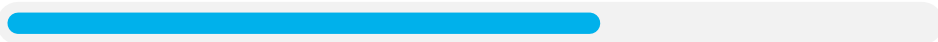
Axians Business Analytics Groningen



 Working at Axians for over 11 years. Quickly focused on Microsoft SQL Server; certified MCSE and written custom training. Since 2018 changing to Azure. A number of certifications there as well, including the MCT. Proud member of the Redgate 100

 Besides working at Axians, I'm an international speaker at events like DatamindsConnect and SQL Bits. When not speaking, I'm usually volunteering at events.

 Azure Architecture



 Database Administration and Performance Tuning



 Timekeeping at Speedskating events



@2meterDBA

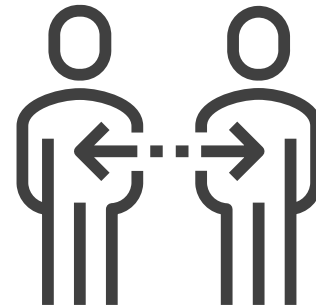
Twitter, LinkedIn

SQL Server, Azure, Security.

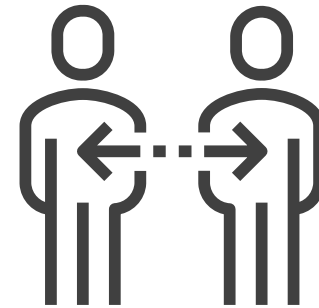
Speedskating, Cycling, Photography



- ▶ DBA's
- ▶ Books
- ▶ Users
- ▶ Peers
- ▶ Management



- ▶ Correct terminology
- ▶ Asking the right questions



- ▶ Twitter (#sqlfamily, #sqlhelp)
- ▶ Slack (Sql Server Community)
- ▶ Pinal Dave (sqlauthority.com)
- ▶ Brent Ozar (brentozar.com)
- ▶ SQLSkills (sqlskills.com)
- ▶ Microsoft (learn.Microsoft.com)
- ▶ Blogs ([feedly.com](https://www.feedly.com))



- ▶ No more SQL Server on-premises certifications available
- ▶ [Learn.microsoft.com](https://learn.microsoft.com)
- ▶ MeasureUp!
- ▶ AZ-900 -> DP-900 -> DP-300 -> DP-203



► Ola Hallengren

- <https://ola.hallengren.com/>
- The solution for maintenance
 - Backups
 - Indexes
 - Statistics
 - Integrity checks



► dbatools

- <https://dbatools.io/>
- Commandlets for repetitive tasks
- Easy to use
- Well documented
- Safe (<https://dbatools.io/secure/>)

► dbachecks

- <https://dbatools.io/introducing-dbachecks/>
- Module for routine checks
- With PowerBI report





First Responder Kit

- <https://www.brentozar.com/first-aid/>
- Easy scripts to get an overview of the server you're looking at
- Advice on where to focus your attention
- No solution scripts you can easily run, think and edit!
- Free!





Plan Explorer

- <https://www.sentryone.com/plan-explorer>
- Free tooling for analyzing queries
- Shows animated deadlock diagrams
- Gives you an idea how to add or modify indexes



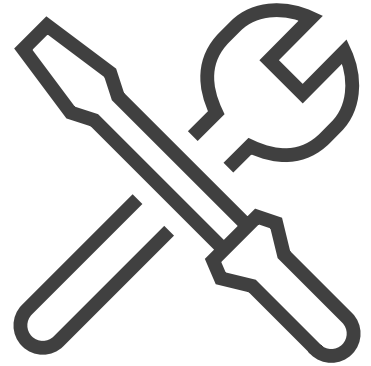
► Execution plan reference

- https://sqlserverfast.com/epr/generic_information/
- Reference for most execution plan icons
- Training on how to analyse queryplans



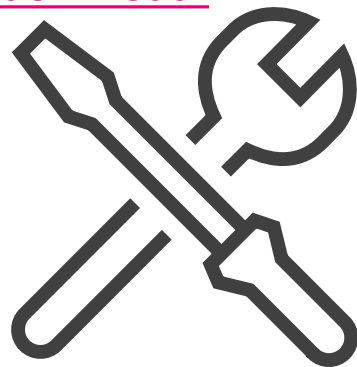
► VS Code

- <https://code.visualstudio.com/>
- Free code editor
- Loads of plugins and integration with git



► Azure Data Studio

- <https://learn.microsoft.com/en-us/sql/azure-data-studio/download-azure-data-studio?view=sql-server-ver16>
- Lightweight version of SSMS
- Works out for Azure and on-premises
- Nice graphics on your server or database
- Server administration is harder because the gui parts are missing.
- But notebooks! (Check out session by Rob Sewell to learn more!
<https://www.youtube.com/watch?v=a8ulvmWikAU>)



► Windows Terminal

- check out windows store to get it
- Looks like Powershell
- You can choose the version if you have more than one installed
- You can easily connect to Azure to run commands there



A high-angle, top-down photograph of five business professionals (three men and two women) standing in a circle on a light-colored tiled floor. They are all reaching their hands towards the center, where they are stacked on top of each other. The individuals are dressed in business attire. The image is overlaid with a blue-to-purple gradient. The word 'axians' is in the top right, and 'DEMO!' is on the left.

axians

DEMO!

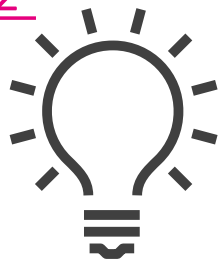
- ▶ Itzik Ben-Gan
 - T-SQL Fundamentals 4th edition
 - T-SQL Window functions 2nd edition
 - T-SQL querying

- ▶ Powershell in a month of lunches
- ▶ Dbatools in a month of lunches

- ▶ Query Store for SQL Server 2019: Identify and Fix Poorly Performing Queries



- Wait stats (<https://link.springer.com/book/10.1007/978-1-4842-8771-2>)
- Who is active (<http://whoisactive.com/>)
- Disk latency (<https://sqlperformance.com/2015/03/io-subsystem/monitoring-read-write-latency>)



A high-angle, top-down photograph of five business professionals (three men and two women) standing in a circle on a light-colored tiled floor. They are all reaching their hands towards the center, where they are stacked on top of each other. The individuals are dressed in business attire. The image is overlaid with a blue-to-purple gradient. The word 'axians' is in the top right, and 'DEMO!' is on the left.

axians

DEMO!

It's for everyone



A photograph of a modern, brightly lit escalator with glass railings and illuminated handrails. The escalator steps are visible, leading upwards. The text "Level up" is overlaid in a large, bold, dark font across the center of the image. The background is a gradient of blue and purple.

Level up

FAIL

 Preferably on a Friday

 At 17:00

 Lose your weekend





What they should have told me about becoming a DBA

Reitse.Eskens@axians.com

<https://www.linkedin.com/in/reitseeskens/>

<https://github.com/reitse/Speaking>

@2meterDBA

Thank
you!



A man and a woman are standing in a modern office, looking at a laptop. The woman is on the left, smiling, and the man is on the right, looking at the screen. They are both wearing white shirts. The background shows a bright, open-plan office with large windows and modern decor. The image has a purple tint.

axians

Thank you for listening!

Remember to provide feedback for this session and the event as a whole.

Any questions? You can reach me at:

@2meterDBA / reitse.eskens@axians.com