



# 16 edycja konferencji SQLDay

13-15 maja 2024, WROCŁAW + ONLINE



partner platynowy



partner złoty



partner srebrny





Microsoft Fabric for

SQL

Developers

Bartłomiej Graczyk, Paweł Potasiński



# SELECT \* FROM Speakers WHERE CurrentSession = 1;



Bartek



**Work**

Chief Technology Architect @ Polpharma  
Arena Architektów by TIDK

**LinkedIn**

</in/bartlomiejgraczyk/>

**Info**

ex-MVP, former leader of DC.pl

Paweł



**Work**

Sr Program Manager @ Microsoft

**LinkedIn**

</in/pawelpotasinski/>

**Info**

ex-MVP, founder of DC.pl

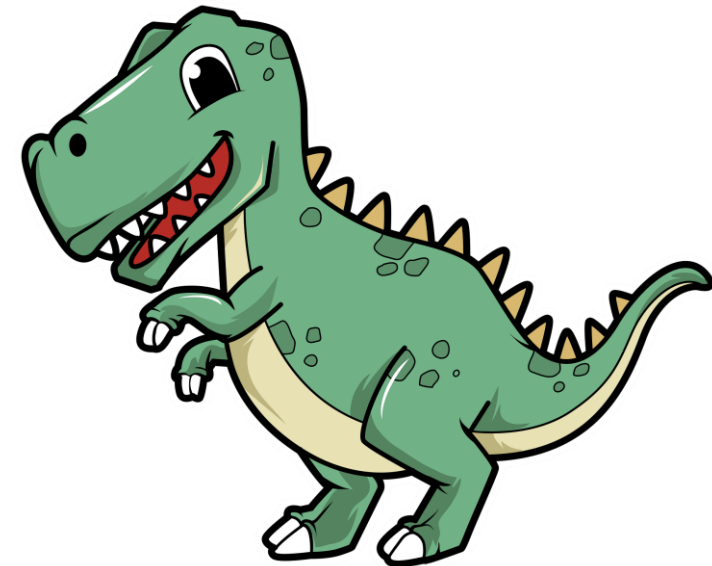
We ❤️ SQL!

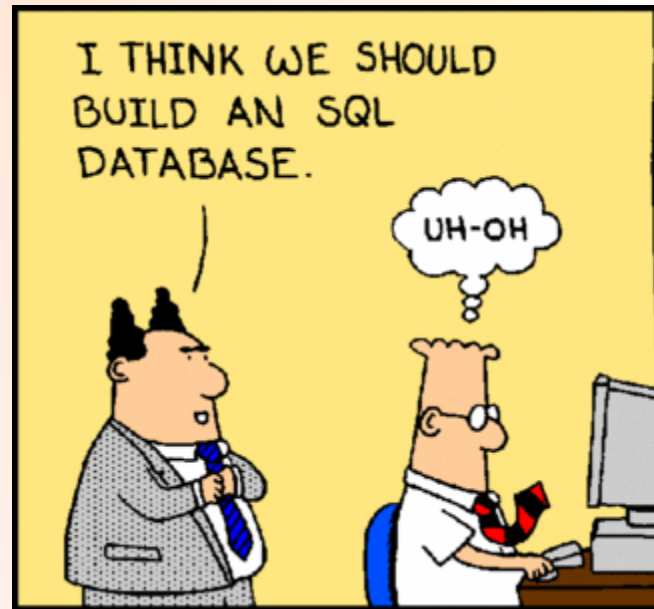
# Agenda



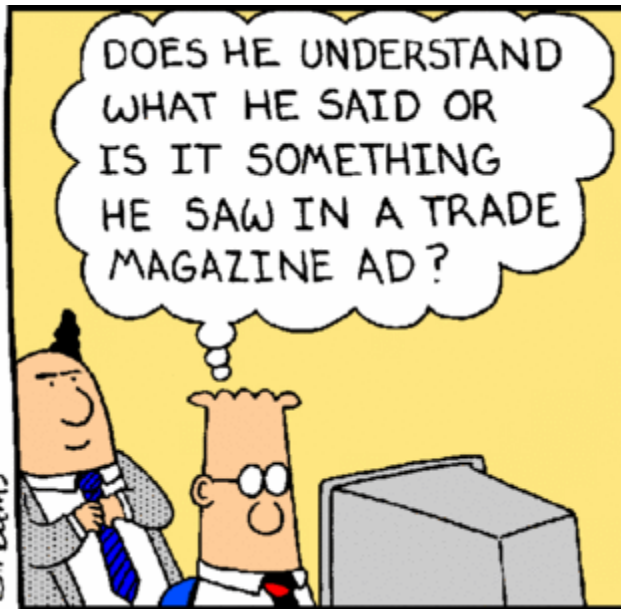
- Why care about SQL?
- **Working with SQL in Microsoft Fabric (DEMO)**
- Summary, next steps and resources

Hello Fabricators!  
I'm T-SQL-Rex.

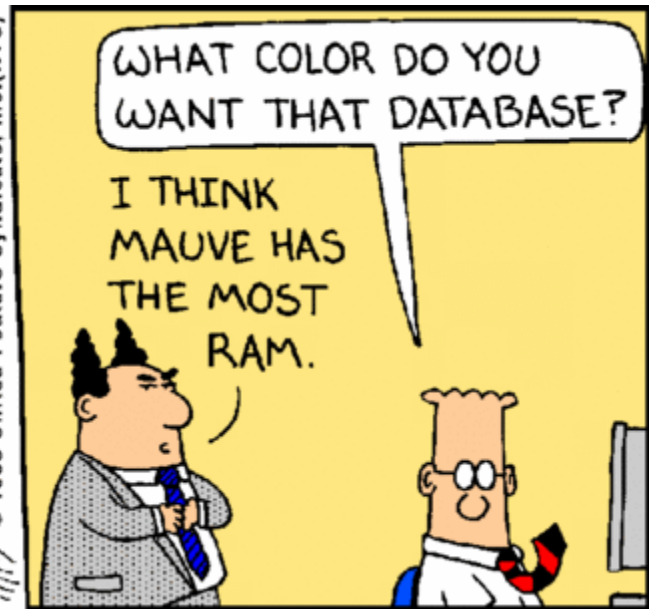




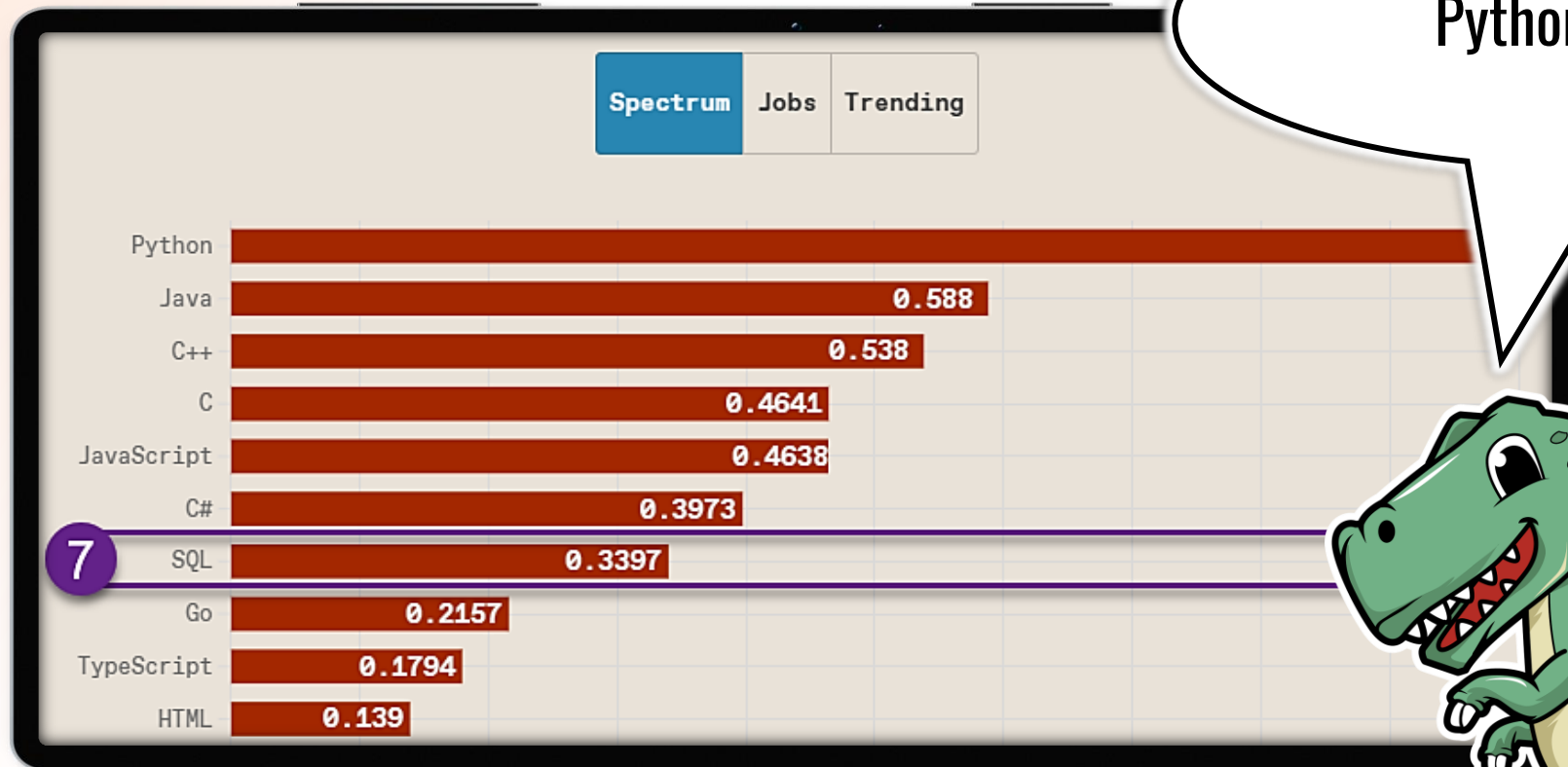
S. Adams E-mail: SCOTTADAMS@AOL.COM



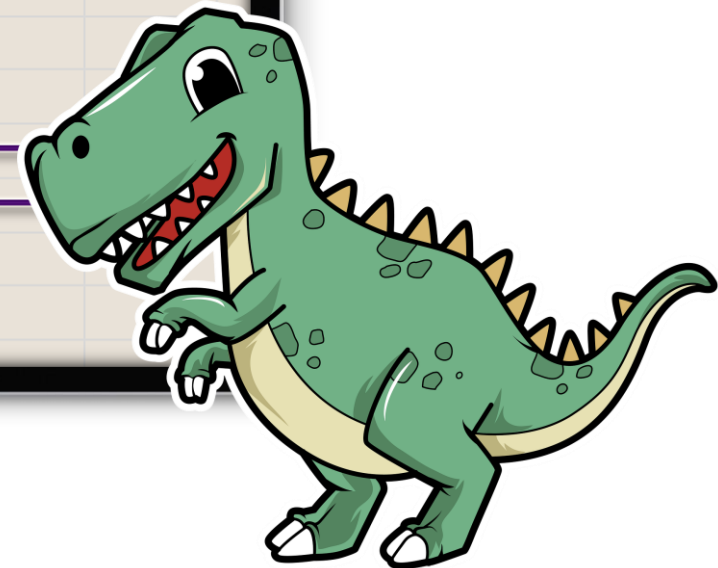
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# Why care about SQL?



<https://spectrum.ieee.org/the-top-programming-languages-2023>



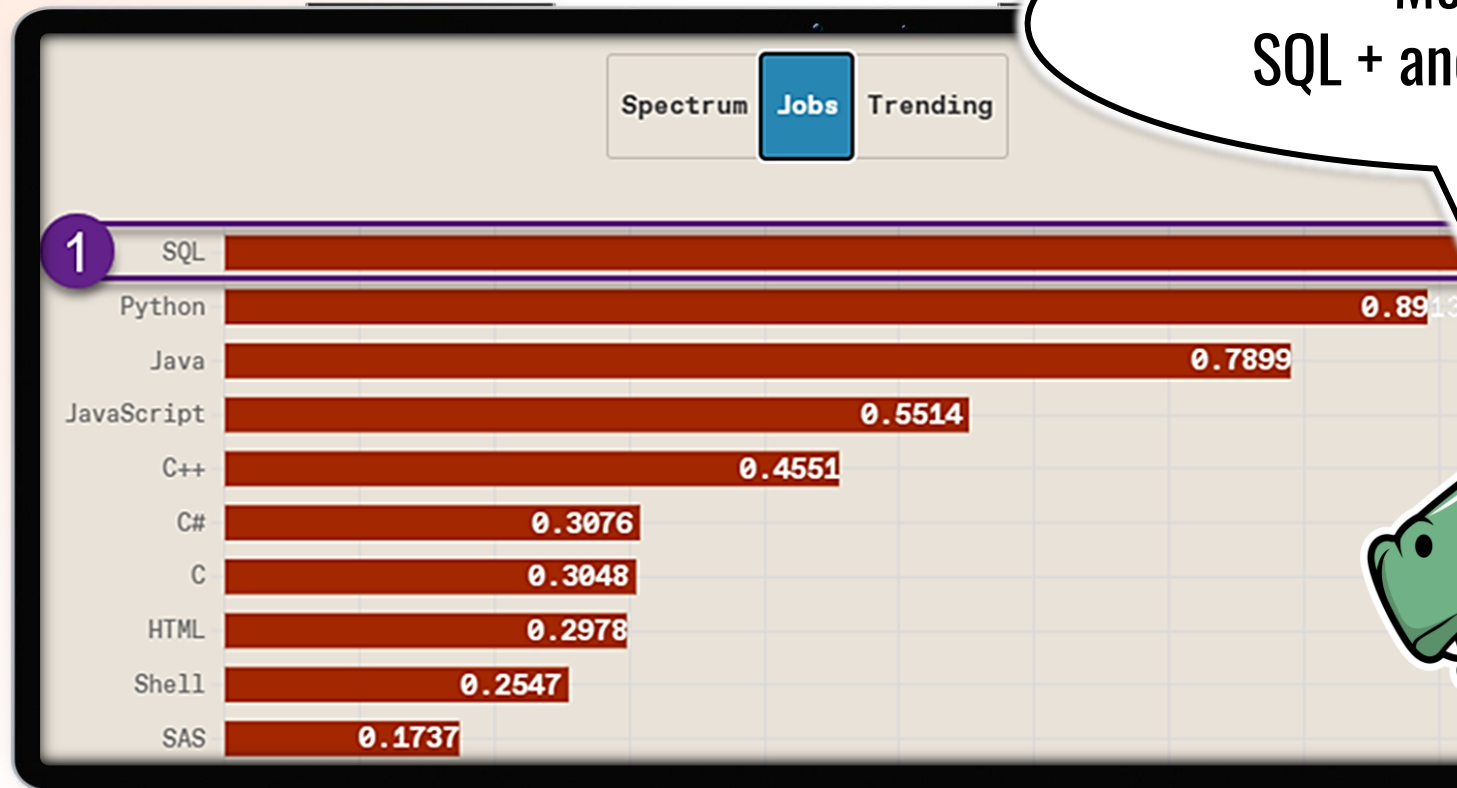


# HOW TO WRITE A CV

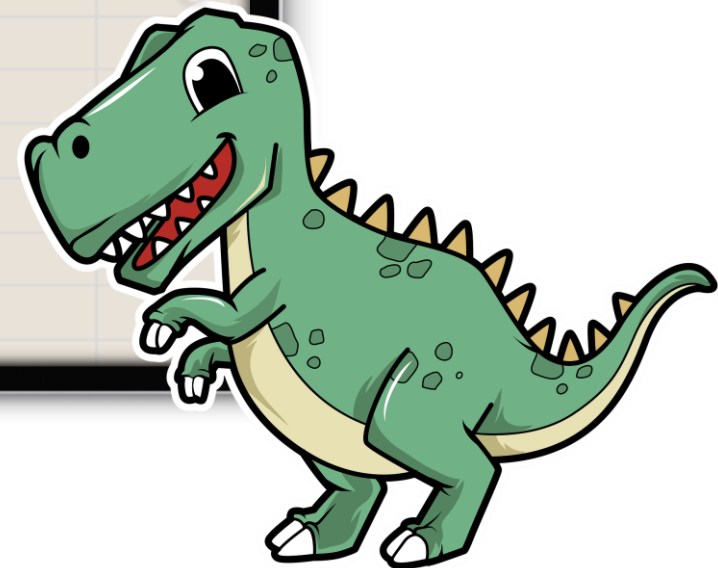


Leverage the NoSQL boom

# Why care about SQL?

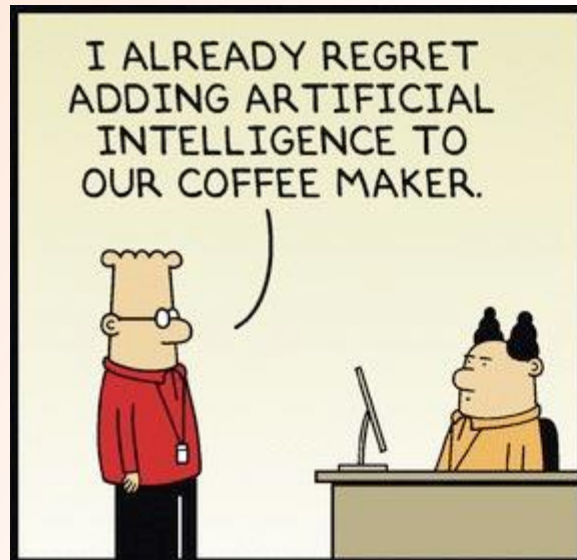


Most jobs =  
SQL + another language



<https://spectrum.ieee.org/the-top-programming-languages-2023>





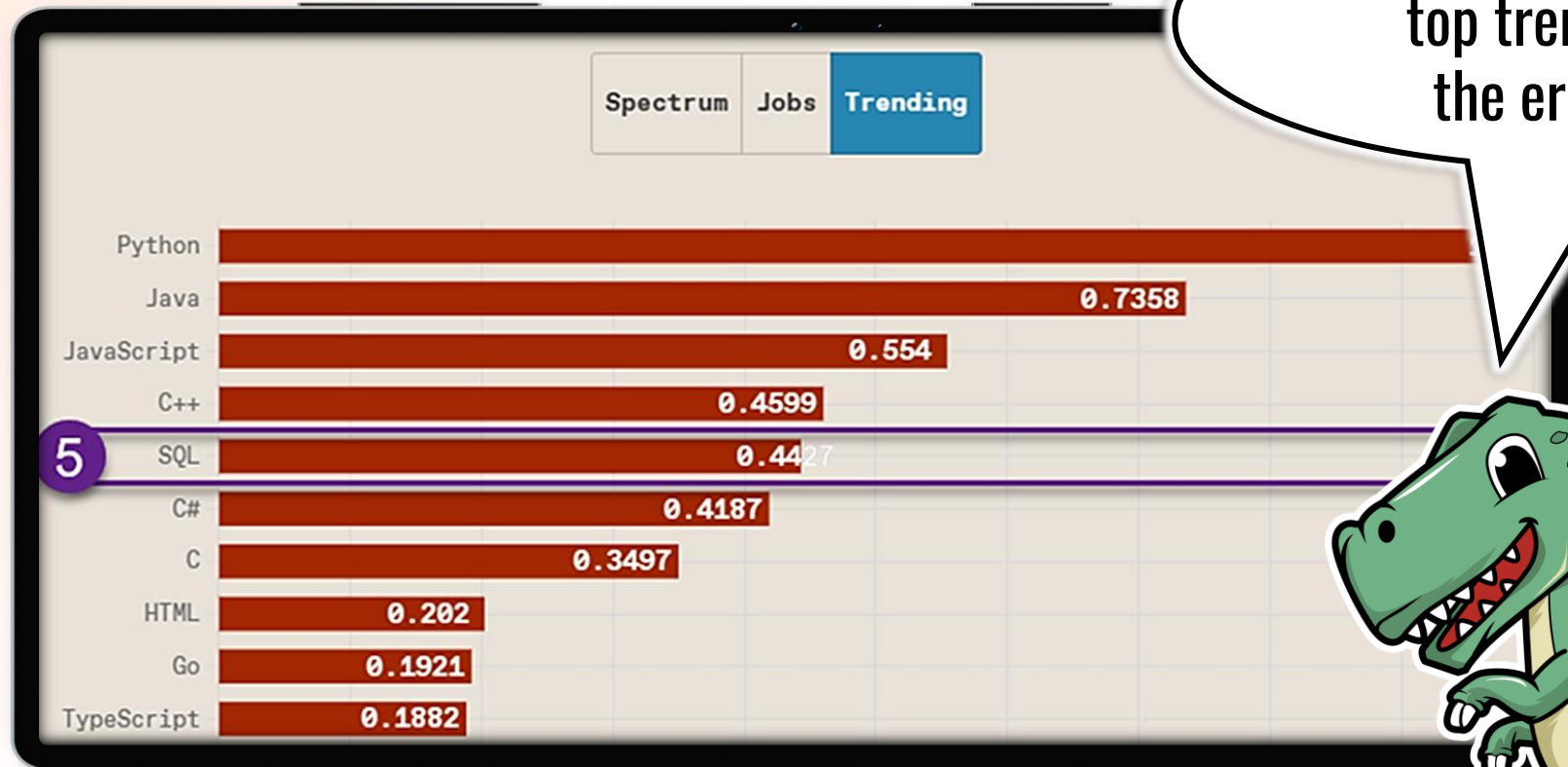
DILBERT.COM @SCOTTADAMSSAYS



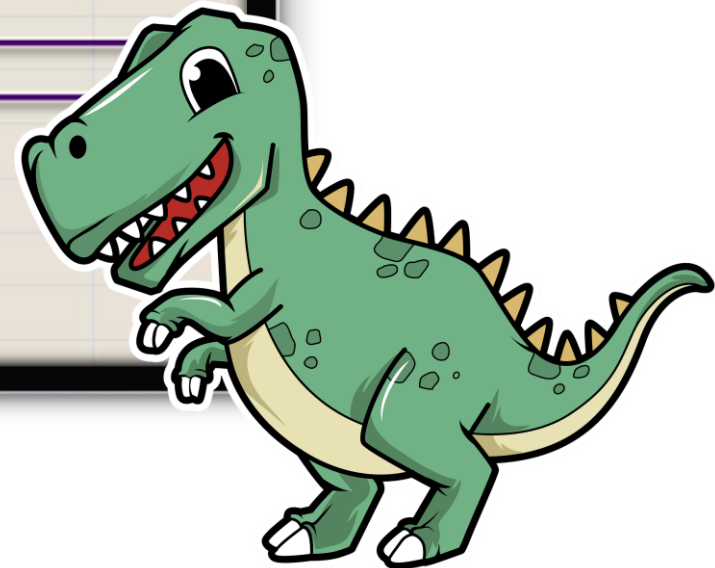
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# Why care about SQL?



Python is #1 again,  
top trending in  
the era of AI



<https://spectrum.ieee.org/the-top-programming-languages-2023>



# Microsoft Fabric



Data  
Factory



Synapse Data  
Warehousing



Synapse Data  
Engineering



Synapse Data  
Science



Synapse Real  
Time Analytics



Power BI



Data  
Activator



OneLake

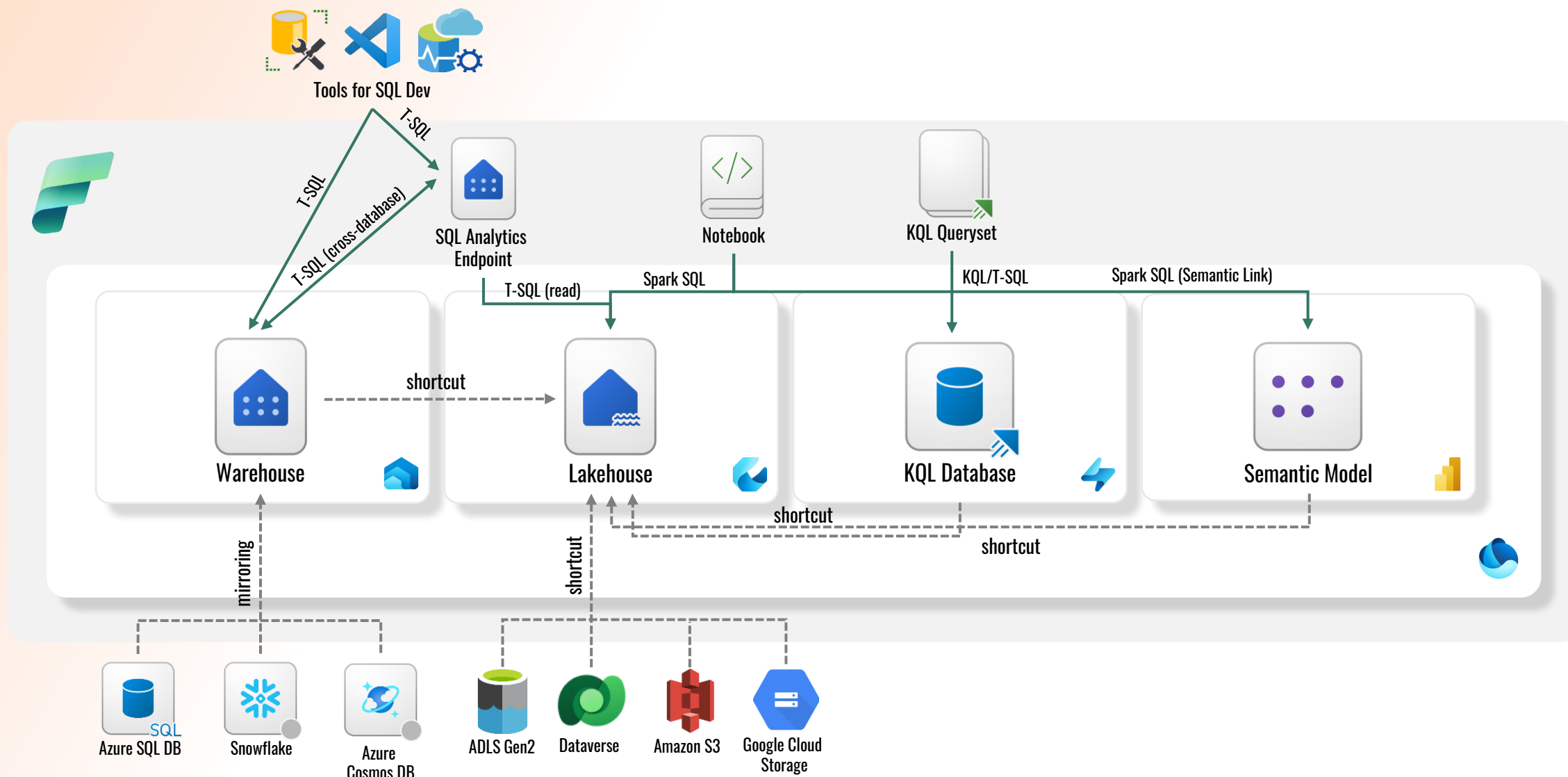
Intelligent data foundation



# Microsoft Fabric



# Working with SQL in Microsoft Fabric

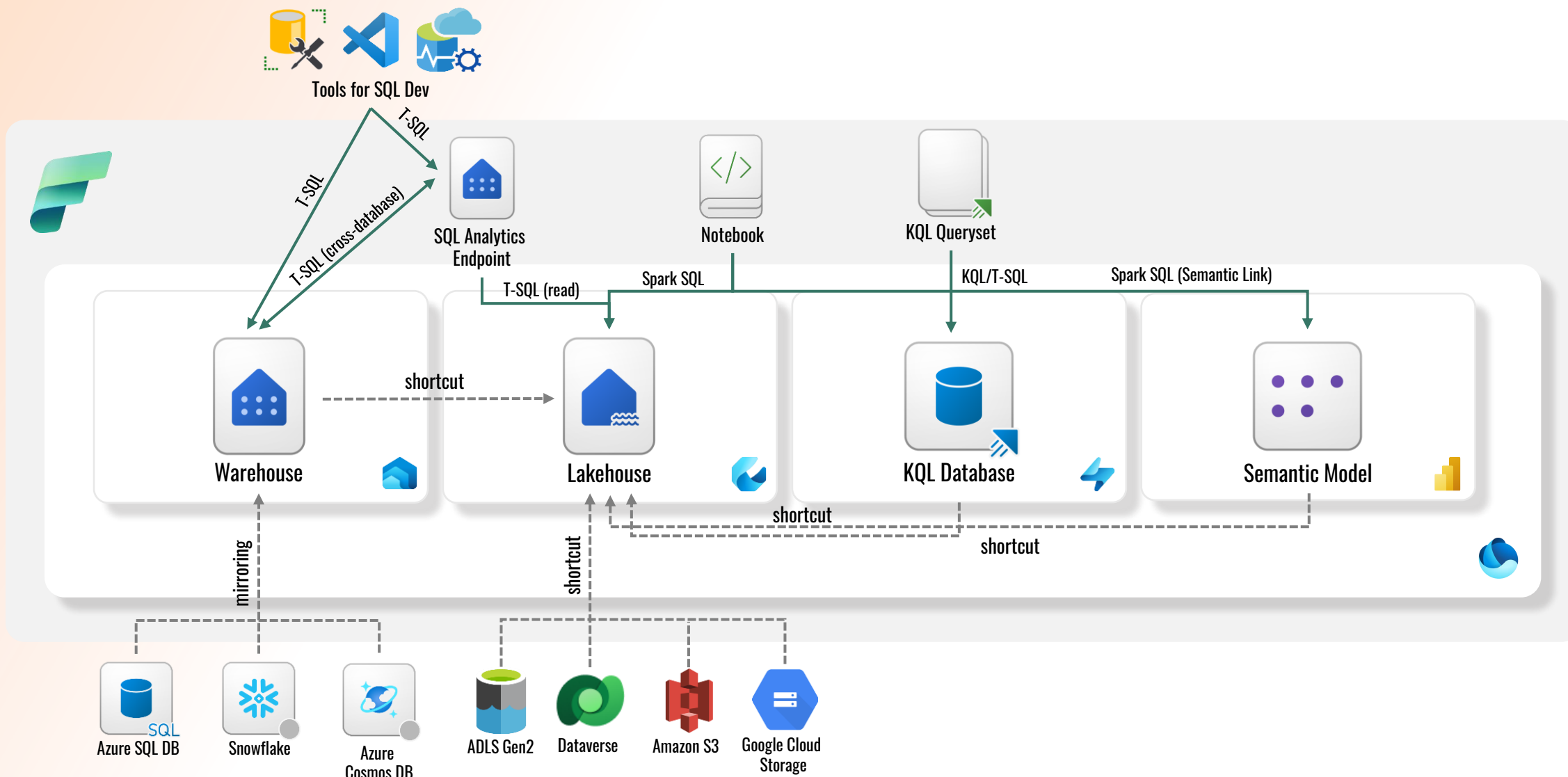




# DEMO



# Working with SQL in Microsoft Fabric



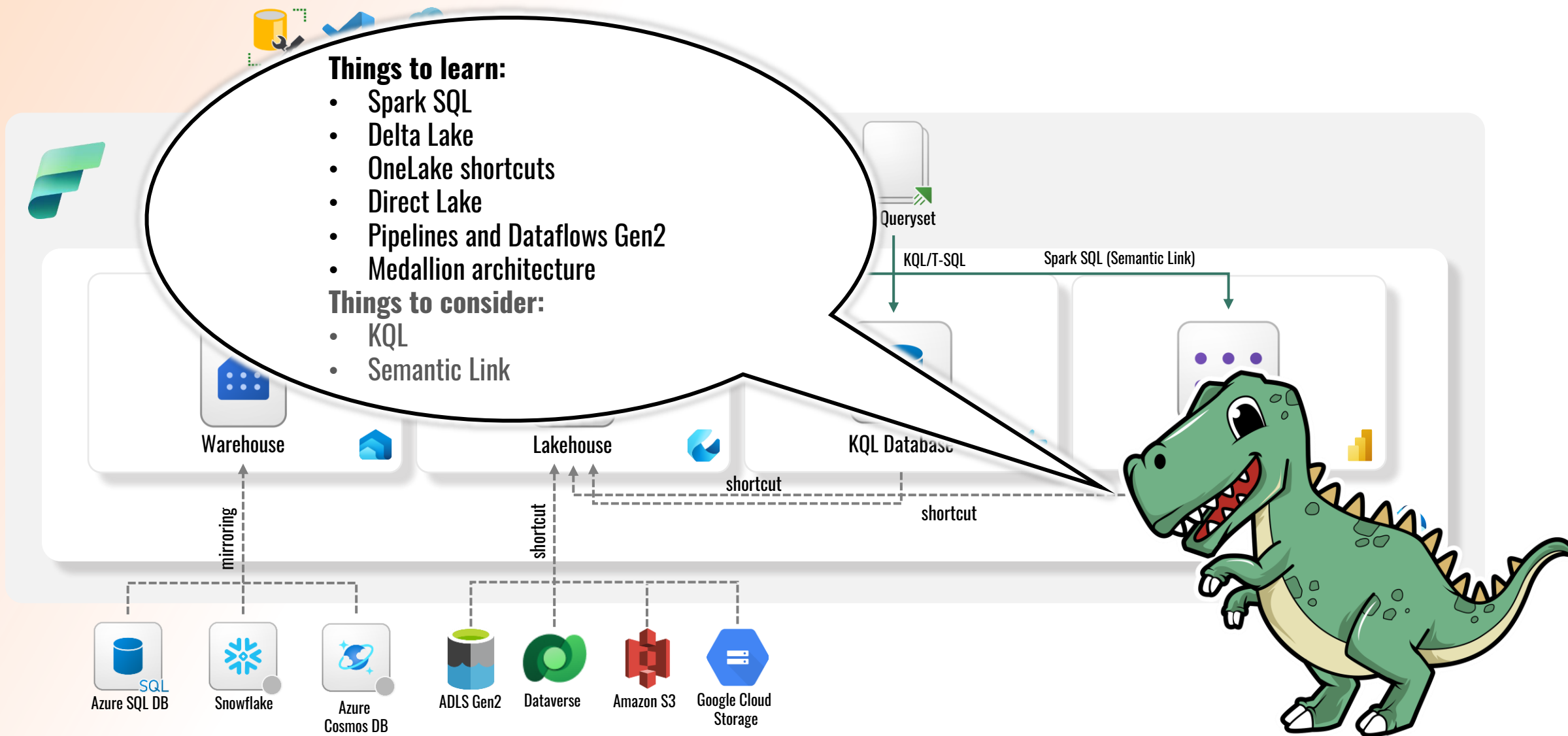
# Working with SQL in Microsoft Fabric

## Things to learn:

- Spark SQL
- Delta Lake
- OneLake shortcuts
- Direct Lake
- Pipelines and Dataflows Gen2
- Medallion architecture

## Things to consider:

- KQL
- Semantic Link



# Resources for SQL Developer in Fabric



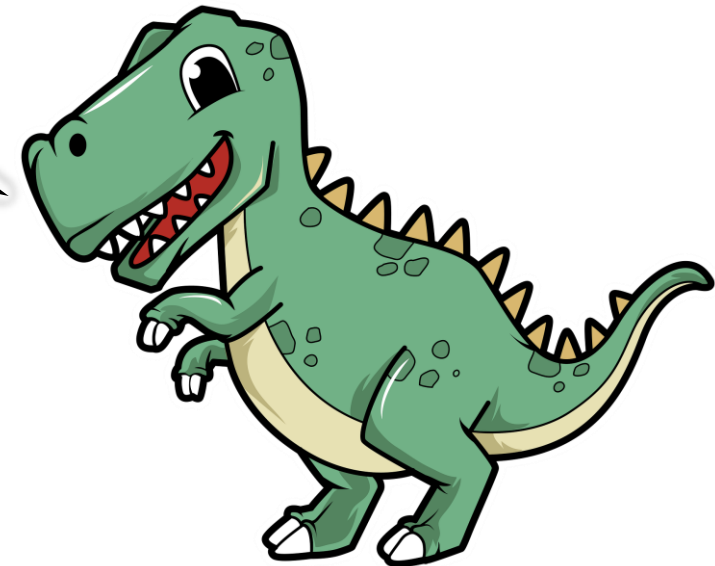
- Doc: [SQL Reference - Spark 3.5.0 Documentation](#)
- Doc: [Getting Started — PySpark 3.5.0 documentation](#)
- Doc: [Delta Lake Documentation](#)
- Doc: [Learn about Direct Lake in Power BI and Microsoft Fabric](#)
- Tutorial: [Data Factory end-to-end scenario - introduction and architecture](#)
- Doc: [Implement medallion lakehouse architecture in Microsoft Fabric](#)
- Learn: [Organize a Fabric lakehouse using medallion architecture design](#)
- Doc: [Overview of Copilot in Fabric \(preview\)](#)
  
- Learn: [Introducing DAX Video Course – SQLBI](#)
- Learn: [Introduction to Data Modeling for Power BI Video Course - SQLBI](#)
- Doc: [What is semantic link \(preview\)?](#)
- Doc: [Kusto Query Language \(KQL\) overview](#)
- Doc: [SQL to Kusto query translation](#)

Hej ChatGPT, czy w erze AI warto w ogóle uczyć się SQL-a? Jeśli tak, podaj 3 główne powody, maksymalnie 500 znaków.



Oczywiście, SQL jest nadal bardzo wartościowym narzędziem w erze sztucznej inteligencji. Oto trzy powody:

1. **Wszechstronność:** SQL jest używany w różnych dziedzinach, od biznesu po naukę danych. Znając SQL, możesz pracować w różnych obszarach, niezależnie od trendów AI.
2. **Bazy danych są fundamentem:** Wiele systemów AI wciąż opiera się na danych przechowywanych w bazach danych. Zrozumienie SQL pozwala na efektywne zarządzanie danymi, co jest kluczowe w procesie uczenia maszynowego.
3. **Kontrola nad danymi:** AI korzysta z danych, a znajomość SQL daje kontrolę nad tymi danymi. Możesz tworzyć zapytania dostosowane do specyficznych potrzeb, co jest kluczowe dla skutecznej pracy z danymi w AI.





# Microsoft Fabric Community Resources



## Community Call to Action

- ✓ Try Microsoft Fabric for free: <https://aka.ms/try-fabric>
- ✓ Join the Fabric community: <https://aka.ms/fabriccommunity>
- ✓ Share and vote for ideas to improve Fabric: <https://aka.ms/fabricideas>
- ✓ Read and comment Fabric Updates blog: <https://aka.ms/fabricblog>

## Learn More about Microsoft Fabric

- Product website: <https://aka.ms/microsoft-fabric>
- Documentation: <https://aka.ms/fabric-docs>
- Product Roadmap: <https://aka.ms/FabricRoadmap>
- **Microsoft Learn:** <https://aka.ms/learn-fabric>
- **End-to-end scenario tutorials:** <https://aka.ms/fabric-tutorials>





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Download: [github.com/pawelpo/presentations](https://github.com/pawelpo/presentations)

