#FABCONSQLCON2026

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A Guide to Making the Most of Your SQL Skills Using Microsoft Fabric

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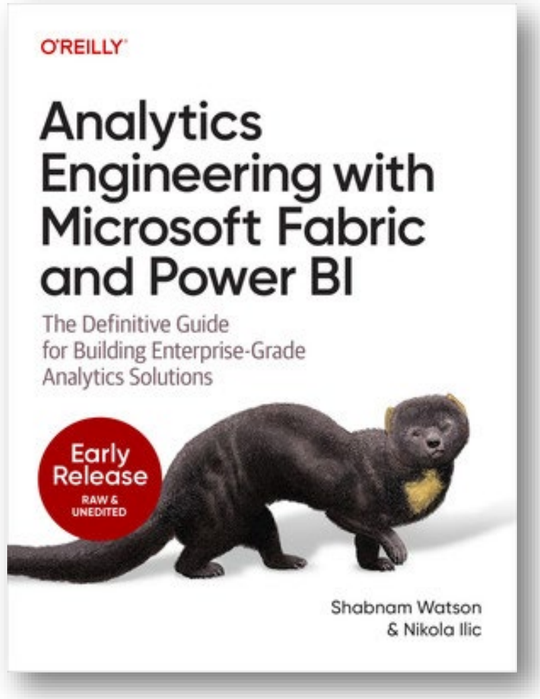
Azure Data & AI . Microsoft Fabric . Power BI



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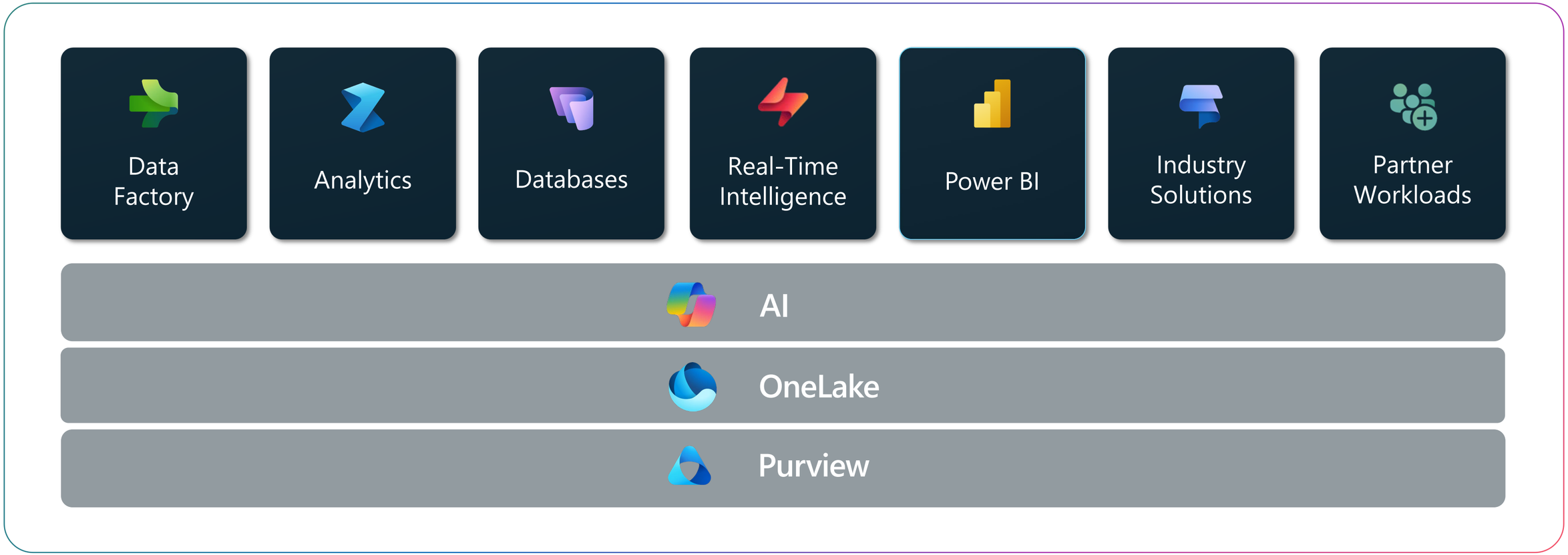
Agenda

SQL capabilities in Fabric

- SQL Database
- Warehouse
- Lakehouse
- Real Time Intelligence

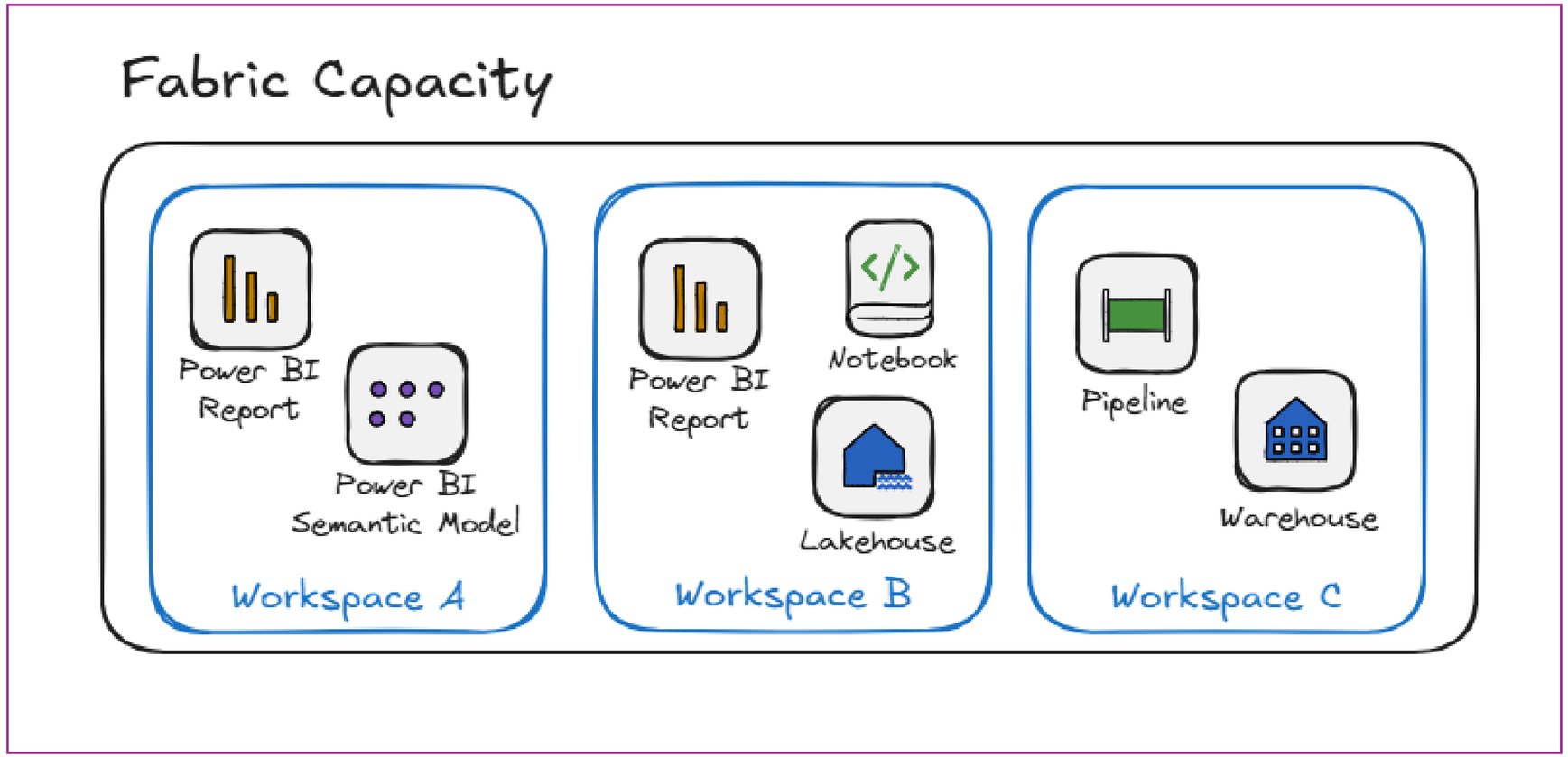
Not a SQL syntax session!

Microsoft Fabric

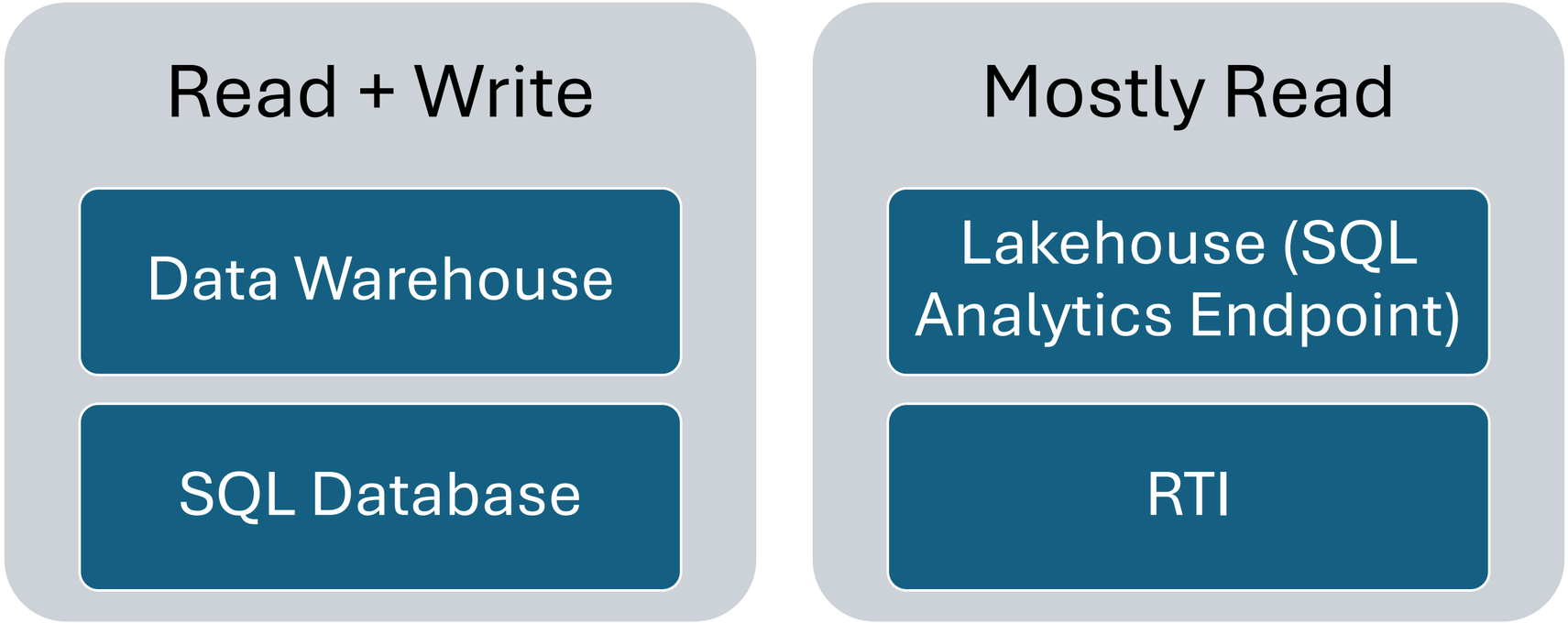


Fabric Tenant-Capacity-Workspace Architecture

Fabric Tenant



Supporting T-SQL



SQL database

Why SQL Database

Incredibly easy to get started with

Azure SQL DB in SaaS

Ideal engine for OLTP/ App Development

Lift and shift

Full T-SQL support

Common Questions from SQL Professionals

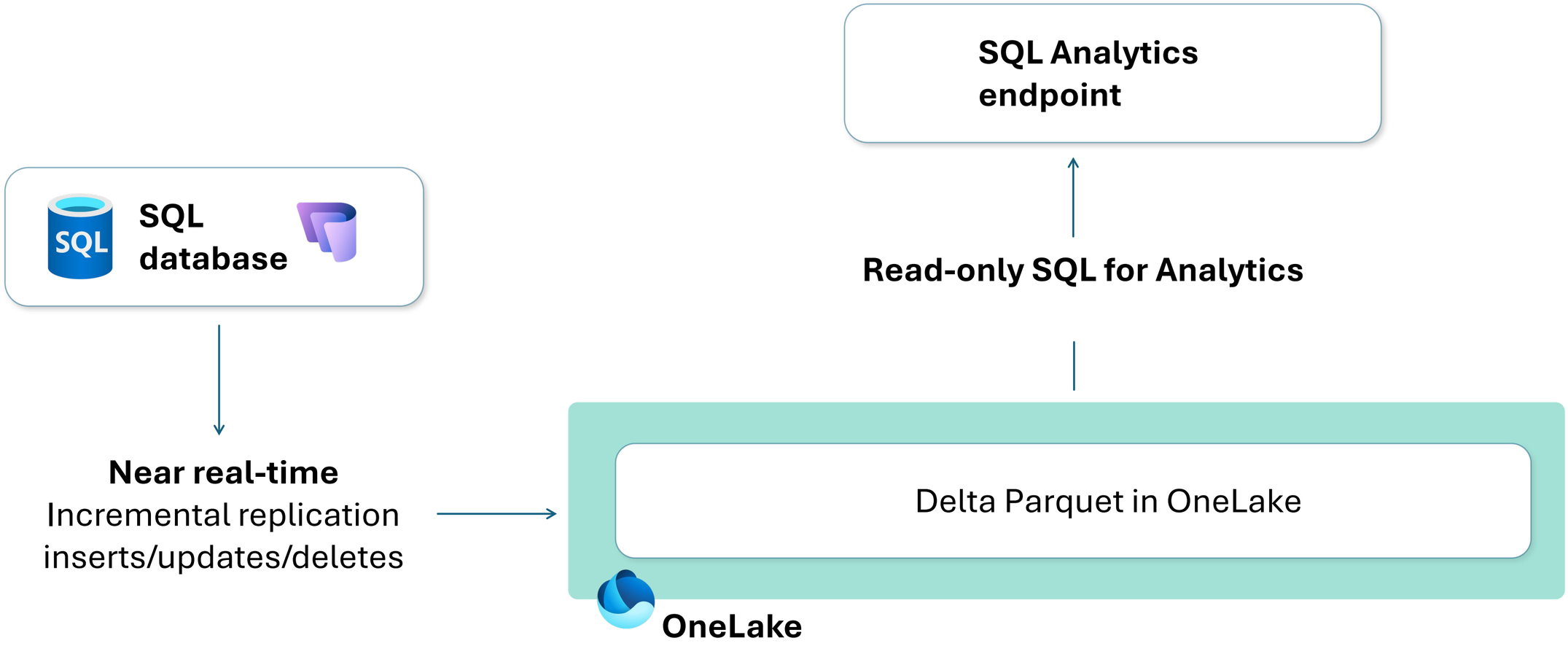
Is this real SQL Server or something new I must learn?

Can I use my existing T-SQL skills (procedures, transactions, indexes)?

Is my data stored as files?

How does this fit into Fabric analytics without moving data?

SQL Analytics Endpoint



SQL Skills You Already Use

Core T-SQL	Programmability	Transactions & Reliability	Indexes & Performance	Security & Governance
SELECT, INSERT, UPDATE, DELETE	Stored procedures	BEGIN TRAN, COMMIT, ROLLBACK	Clustered and non-clustered indexes	Logins, users, roles
JOINs, subqueries, CTEs (WITH)	User-defined function	ACID compliance	Query plans & optimization	Permissions (GRANT, DENY)
GROUP BY, HAVING, ORDER BY	Views	Row-level locking and isolation levels	Familiar performance tuning patterns	Integration with Entra ID
	Triggers			

Common DBA Question

Where do I choose DTUs / vCores / service tiers?

Can I pause, scale, or resize the database?

What is the size limit?

Performance and scaling are managed by Fabric capacity, not per-database DTUs or vCores.

Fabric allocates compute automatically based on workload.

Backups & Restore

Automated backups are built-in, no backup jobs, no manual backups.

Full backups every week.
Differential backups every 12 hours.
Transaction log backups approximately every 10 minutes.

Cannot restore files somewhere else.

High Availability & Resiliency

Zone redundancy is handled by the platform

Availability, resiliency, and fault tolerance are abstracted away and managed by Fabric.

SQL Audit Logs

Authentication attempts and access control changes

Data access and modification operations

Schema changes and administrative activities

Permission changes and security configurations

Query Tools

SQL Query Editor

External tools: SSMS

SQL Database Demo

Warehouse

Warehouse

Minimal setup

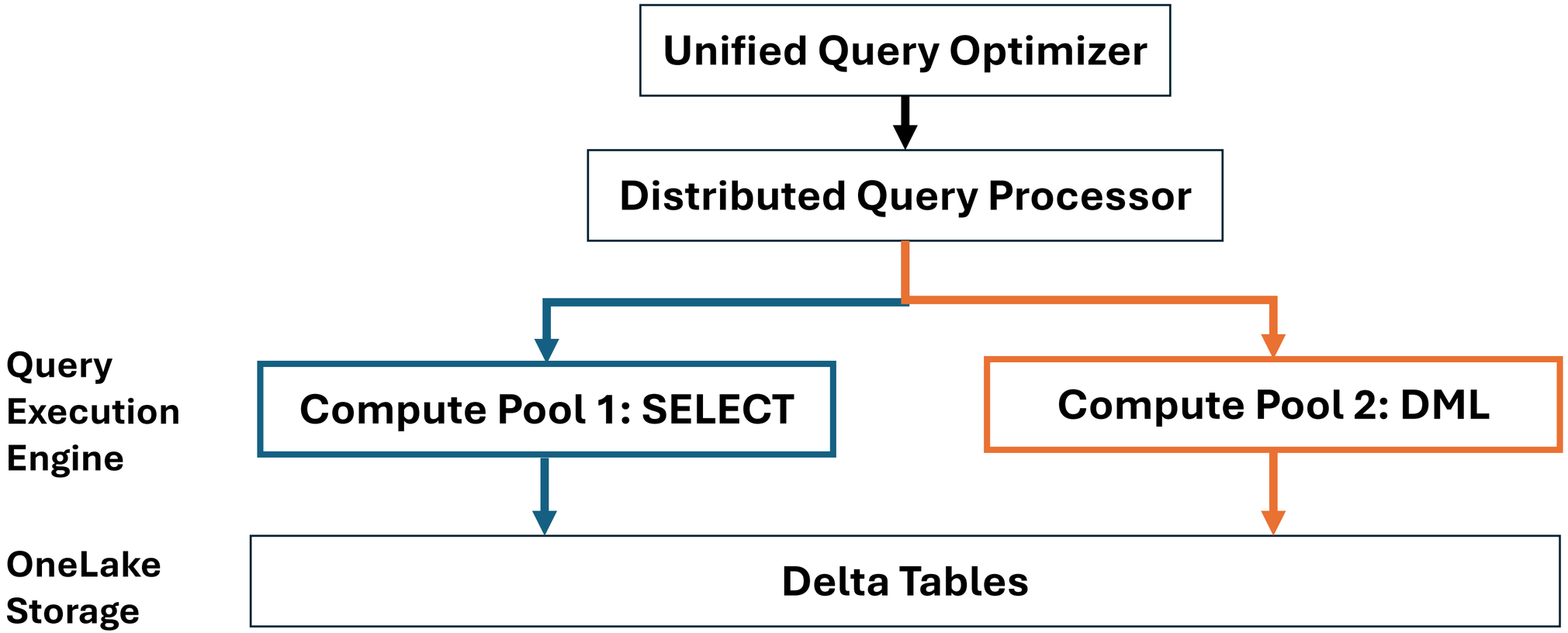
Data stored once in OneLake (open Delta format)

Compute provided by a distributed SQL engine

Storage and compute scale independently

No data movement required across Fabric workloads

Warehouse Architecture



Architecture of Fabric Data Warehouse - Microsoft Fabric | Microsoft Learn

Statistics

Data is stored in OneLake

Delta (Paquet) = Column Storage (~CCI)

Statistics automatically created and maintained

Non clustered indexes can be added

Constraints non enforced

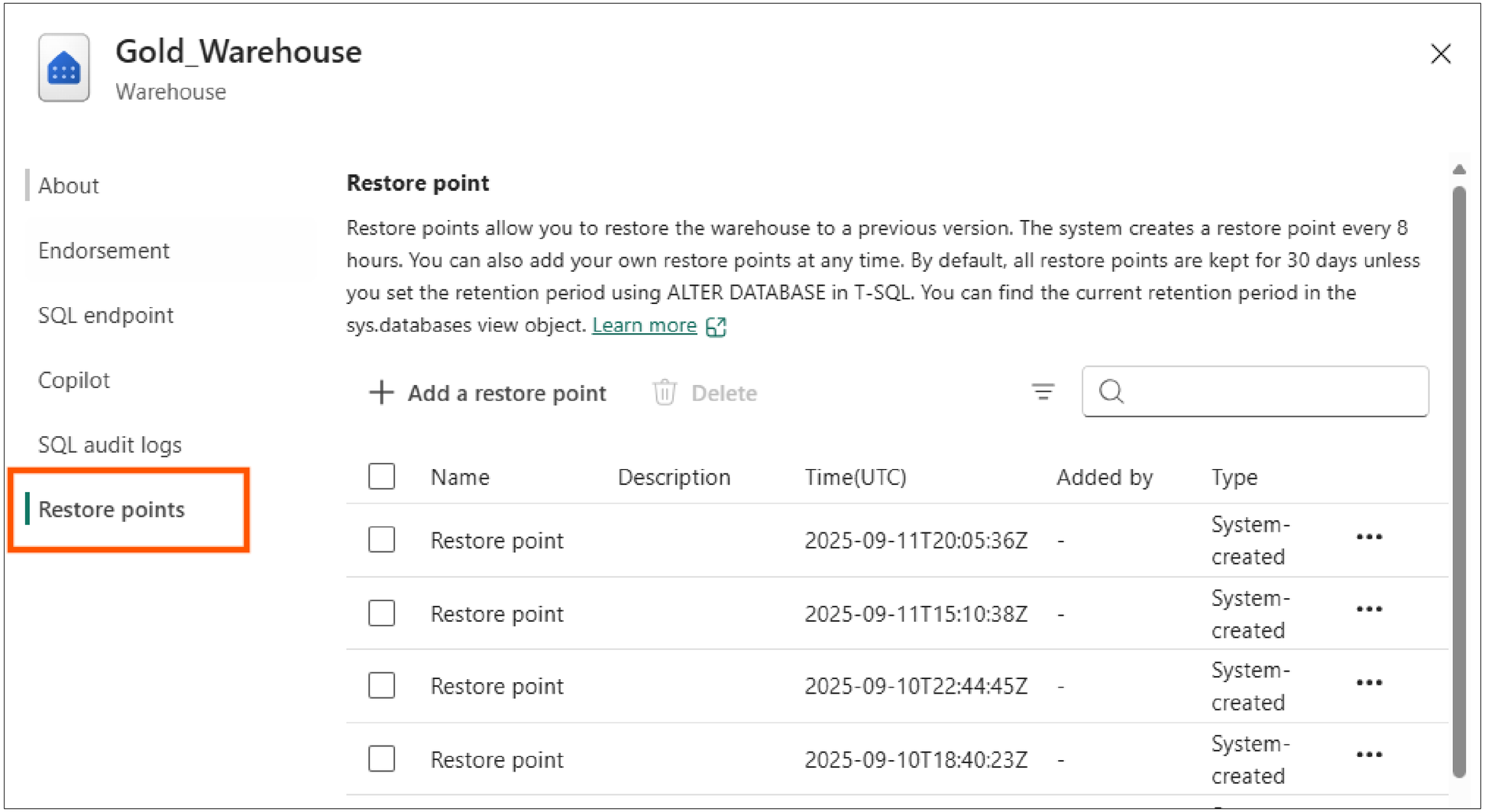
Warehouse: Backup & Restore

Built-in Recovery (No DBA-Managed Backups)

Restore In-Place

Restore points are metadata-based and reference data stored in OneLake

RESTORE POINTS



SQL Audit Logs

Authentication attempts and access control changes

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Query Tools

Visual Query Editor

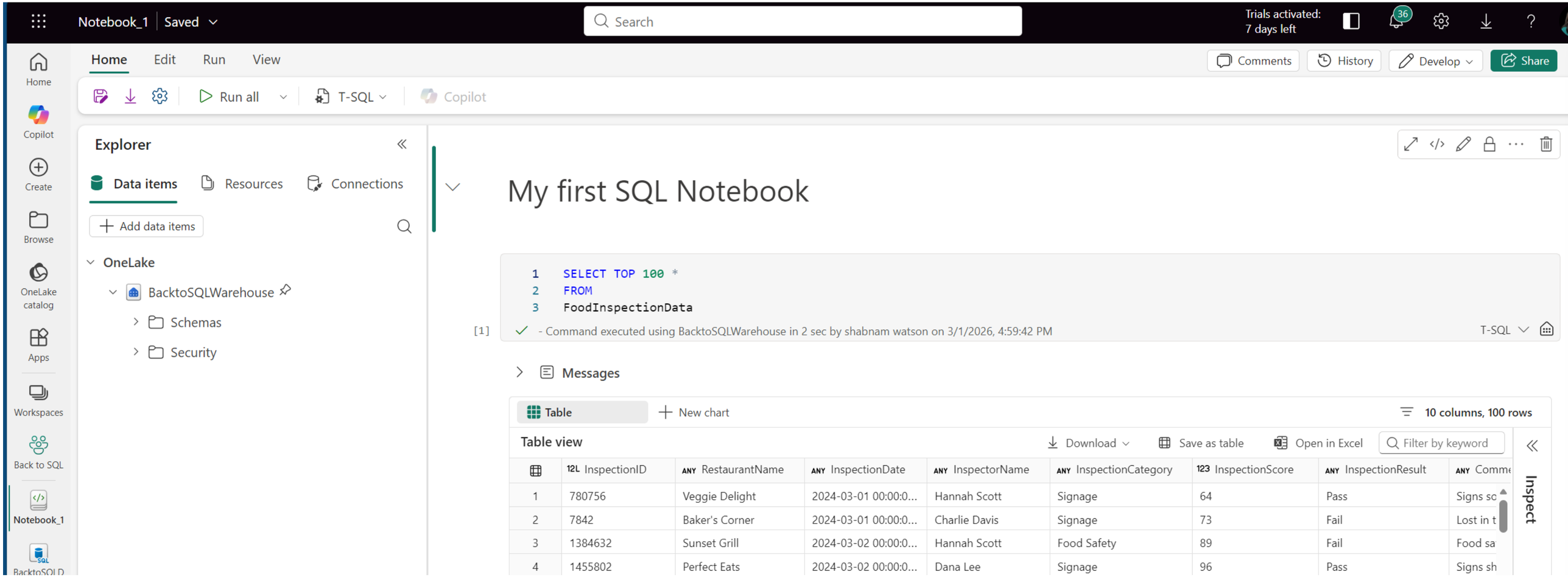
SQL Query Editor

Data Preview

T-SQL Notebooks

External tools: SSMS

SQL Notebooks



Warehouse Demo

Warehouse vs. SQL Database

Feature	SQL DB in Fabric	Warehouse
Storage cap	4 TB per DB	No fixed cap
File visibility	Abstracted	Delta files in OneLake
Workload	OLTP	OLAP
Log management	Platform-managed	Delta transaction log

Lakehouse

Lakehouse

Primary storage layer for large-scale analytical data

Structured and unstructured data

SQL Analytics Endpoint : Read-only T-SQL

Ideal for exploration, reporting, and consumption using familiar SQL

Writes and transformations happen elsewhere (Spark, pipelines, Warehouse)

Lakehouse and SQL Analytics Endpoint

Lakehouse

SQL analytics endpoint

Lakehouse Demo

KQL Database

SQL support in Real Time Itelligence

RTI is KQL-first, designed for streaming and event data

SQL is supported as a limited subset (exploration only)

Useful for basic filtering and aggregations for SQL users

Not intended for full T-SQL, complex workloads

RTI Demo

Sound off.
The mic is all yours.
Influence the product roadmap.

Join the Fabric User Panel

Share your feedback directly with our Fabric product group and researchers.

https://aka.ms/JoinFabricUserPanel

Join the SQL User Panel

Influence our SQL roadmap and ensure it meets your real-life needs

https://aka.ms/JoinSQLUserPanel

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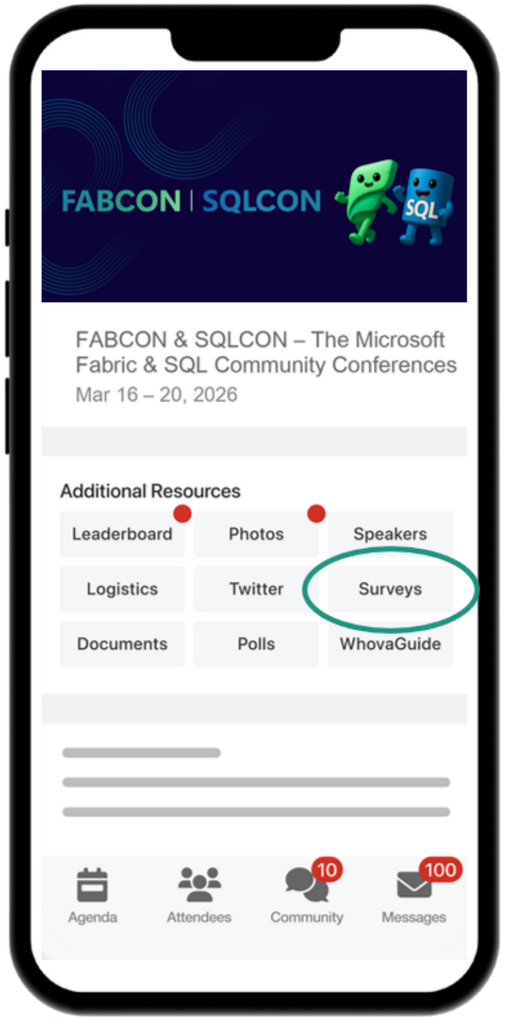

Two Fabric Certifications, One FREE Exam Included

Attendees can take the Fabric Analytics Engineer or Fabric Data Engineer exam for free. Be part of the 2 fastest growing role-based certifications in Microsoft history.

Request your voucher by March 31, 2026.

https://aka.ms/GetDataCertified