#FABCONSQLCON2026

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Microsoft Fabric
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ATLANTA MARCH 16 - 20, 2026

SQL Database in Fabric: Modern Operational & Analytical Apps at Scale

Anupama Natarajan
Data and AI Consultant
Pearl Innovations Limited

Microsoft MVP Data Platform and AI
MCT Community Lead

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Agenda

- The Modern Data Platform Problem
- Why Operational + Analytical Workloads Must Converge
- Introducing SQL Database in Microsoft Fabric
- Why SQL Database in MS Fabric
- The Global Dealership Scenario
- Demo: Building the Dealership Intelligence App
- Real-Time Analytics Without ETL
- AI-Driven Insights from Operational Data
- Key Takeaways

The Modern Data Platform Problem

- Data Latency (hours or days)
- Duplicate storage
- Complex Pipelines
- Expensive Infrastructure
- Slow application insights

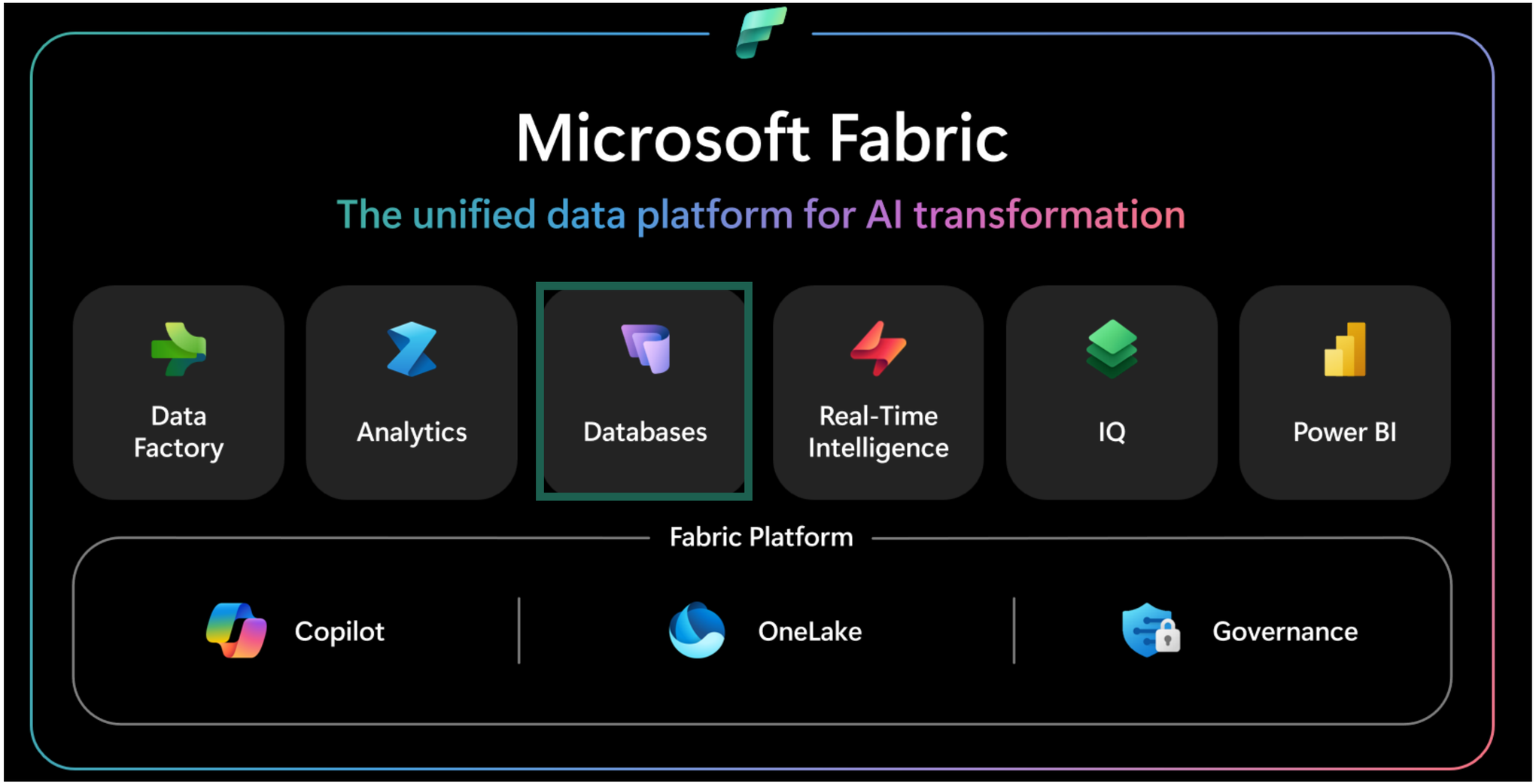
Why Operational + Analytical Workloads must Converge

- Real-time Insights
- Integrated Analytics
- Built-in AI
- Translytical workloads (OLTP + OLAP)
- No complex ETL pipelines

Introducing SQL Database in Microsoft Fabric

- Built on the SQL Server & Azure SQL Database Engine
- First SaaS-native operational database in MS Fabric
- Designed for developers, data engineers and IT teams
- Enables secure, scalable application development
- Fully integrated with the Fabric ecosystem

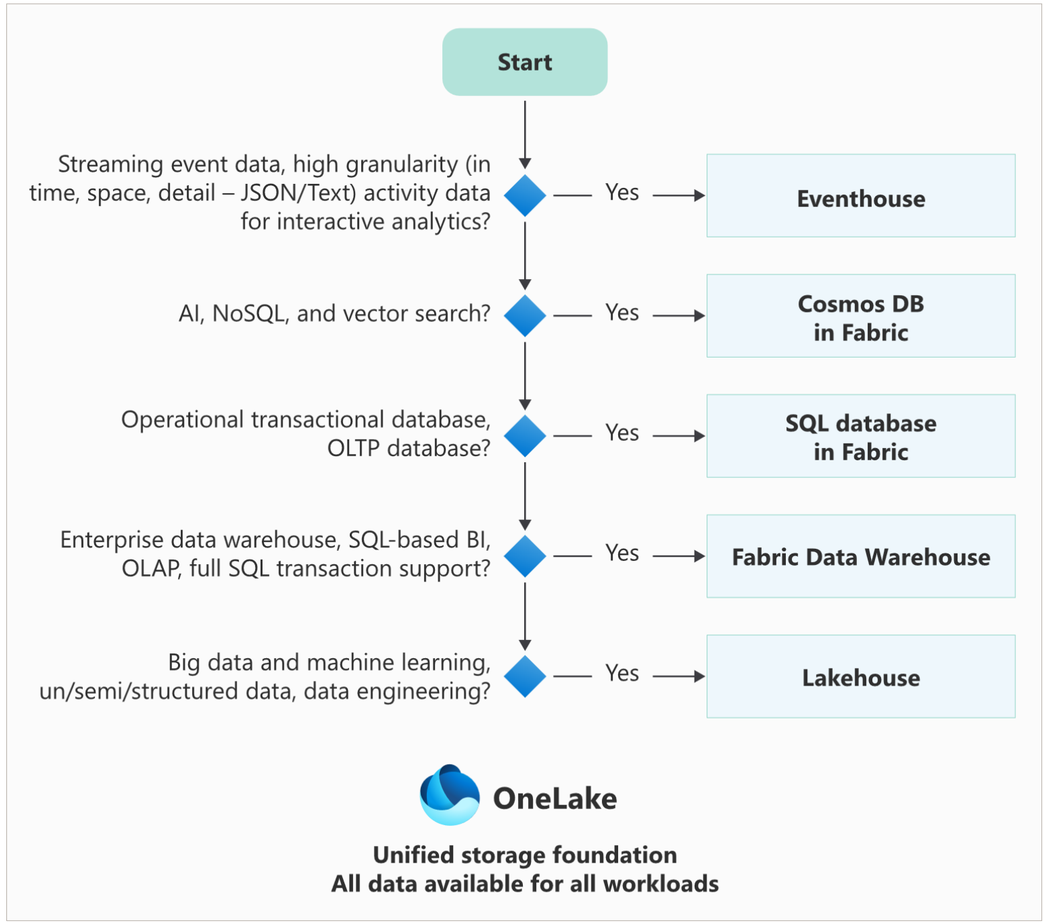
How SQL Database Fits inside Fabric



Why SQL Database in MS Fabric - Built for Next Generation of Applications

Simple	Autonomous and Secure	Optimized for AI
• Provision database in minutes • Copilot powered editor • Native T-SQL Support • Built-in CI/CD	• Automatic scaling • High availability • Disaster recovery • Zero infrastructure management • SQL Auditing	• Vector data support • Semantic search • Retrieval Augmented Generation (RAG) • Seamless integration (Microsoft Foundry, Azure OpenAI)

Choosing the right data store



The Global Dealership Scenario

Each dealership generates operational data:

- Vehicle inventory
- Test drives
- Service records
- Customer purchases
- Parts usage

The company wants:

- Real-time sales insights
- Inventory optimization
- Service analytics
- AI recommendations

Dealership Platform Goal

Operational Apps run transactions

Analytics runs instantly

AI generates insights

Business dashboards update live

Dealership Intelligence App

DEMO

Real-Time Analytics Without ETL

NO ETL PIPELINES

NO DATA DUPLICATION

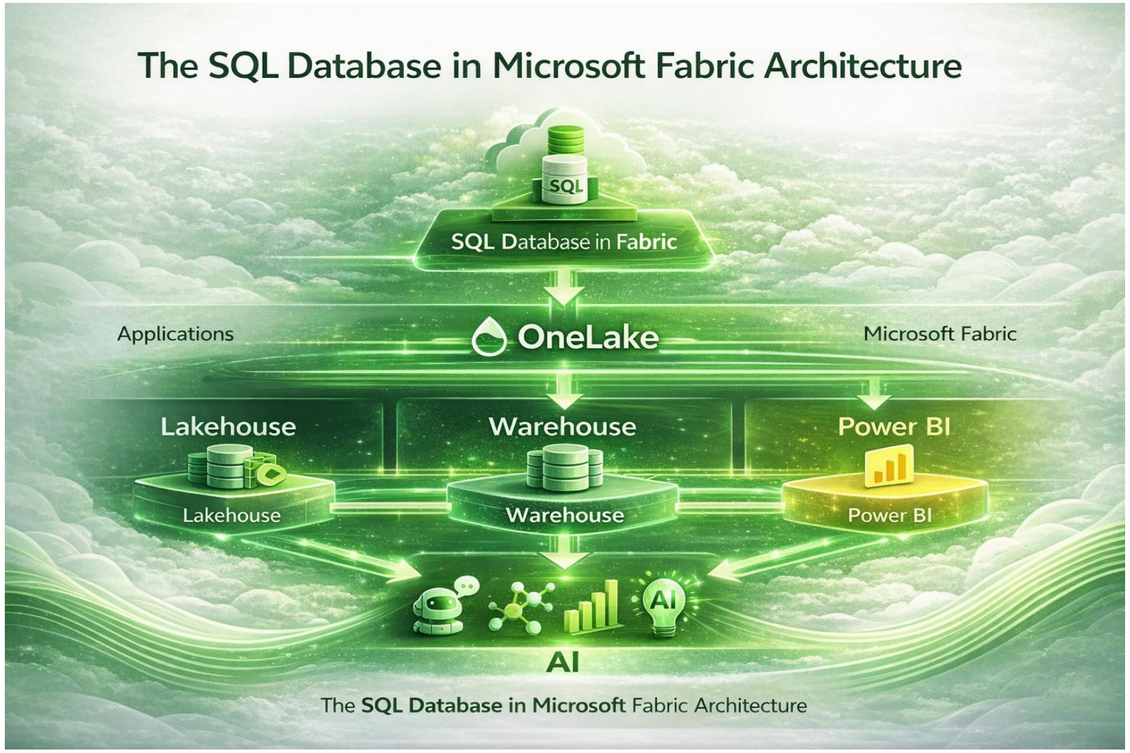
REAL-TIME ANALYTICS

SIMPLIFIED ARCHITECTURE

AI-Driven Insights from Operational Data

- Predictive analytics
- Intelligent search and recommendations
- Real-time anomaly detection
- Automation through AI agents
- Context-aware decision support

Architecture Takeaways



Operational and Analytical workloads can coexist

OneLake simplifies Architecture

SQL database in Fabric removes ETL complexity

Real-time Analytics becomes practical

When to use SQL Database in MS Fabric

- Operational Apps needing Analytics
- SaaS Platform
- Real-time BI Scenarios
- AI-powered Applications
- Operational Dashboards

Key Takeaways

Operational + analytical workloads are converging

SQL Database in Fabric enables modern application architectures

Real-time insights become native

AI can run directly on operational data

Fabric simplifies enterprise data architecture

How was the session?

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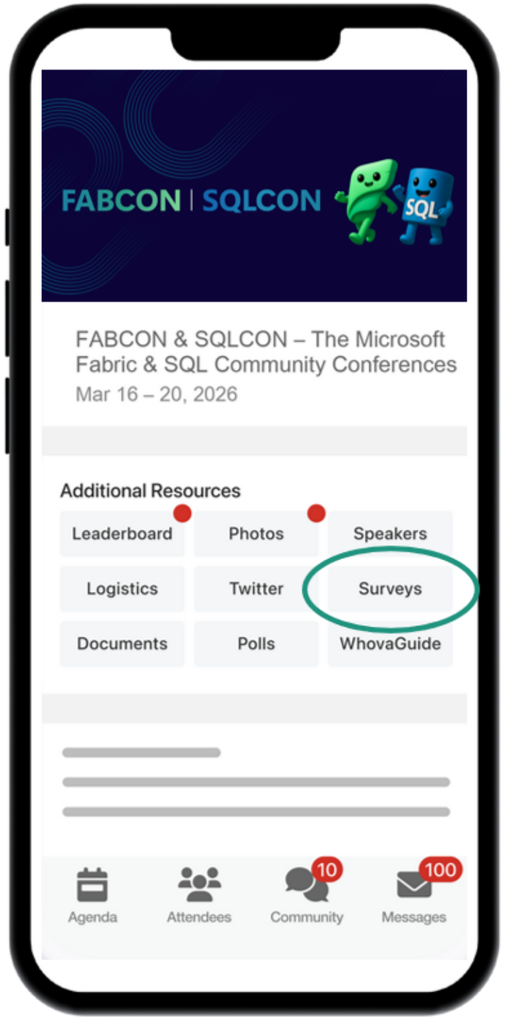

Questions

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Thank you for being part of this session

Demo Scripts

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