DAYMARK
Navigate information technology

Microsoft Fabric: Modernize Your SQL Database Proof of Concept

HIGHLIGHTS

- ***AI-Enhanced Development:*** Accelerate query writing and data exploration using built-in AI tools like Copilot.
- ***SaaS Simplicity:*** Eliminate infrastructure management with a fully managed, scalable platform that reduces operational overhead.
- ***Unified Data Experience:*** Centralize engineering, integration, and analytics in one workspace with OneLake.

ABOUT DAYMARK

Daymark Solutions excels in creating sophisticated technology solutions, specializing in addressing complex business challenges through expertly designed systems. Their highly skilled architects are adept at crafting well-architected solutions that seamlessly integrate cloud and data center technologies. By combining these technologies, they create robust, scalable and secure systems tailored to meet their clients' unique needs.

Modernizing your SQL database with Microsoft Fabric unlocks the power of a fully managed SaaS platform and integrated AI, transforming how you manage, query, and scale your data.

OVERVIEW:

This Proof of Concept (PoC) is designed to help organizations explore the benefits of modernizing their transactional SQL workloads by migrating a representative portion of their existing SQL database into the Microsoft Fabric SQL Database. This initiative provides hands-on experience with Microsoft Fabric's fully managed, SaaS-based architecture—freeing teams from infrastructure management while introducing powerful, AI-driven features to streamline data operations.

During the PoC, data will be copied from the client's current transactional SQL environment—whether hosted on-premises, in IaaS, or even Microsoft PaaS—into the Microsoft Fabric SQL Database. Once in Fabric, participants will be able to test querying, analytics, and reporting scenarios while leveraging tools like Copilot to accelerate SQL development, uncover insights faster, and improve overall productivity.

Microsoft Fabric SQL Database blends the familiarity of traditional SQL with the scalability, reliability, and automation of a modern SaaS platform. It simplifies data management by eliminating the need for manual patching, backups, and tuning, while seamlessly integrating with Power BI and other Microsoft services. The platform also opens the door to AI-powered experiences that transform how teams work with data—making exploration, reporting, and optimization faster and smarter.

At the conclusion of this PoC, participants will walk away with a functioning Microsoft Fabric SQL Database instance populated with real data, a clear comparison to their legacy system, and an understanding of how SaaS and AI together can drive greater agility, reduced overhead, and smarter decision-making in transactional data environments.

LEARNING OBJECTIVES

At the end of the implementation, participants will:

- Understand how to operate a transactional SQL database within Microsoft Fabric's fully managed environment.
- Gain hands-on experience using AI-powered tools like Copilot to streamline SQL query creation and data exploration.
- Evaluate the benefits of transitioning from traditional SQL infrastructure to a modern, scalable SaaS platform.
- Identify opportunities to simplify operations and reduce overhead by leveraging Microsoft Fabric's automation and built-in monitoring capabilities.

AGENDA

Workstream 1: Plan & Architect Modernized SQL Database

Objective: Gain access to source and target environments, define the scope of the migration, and architect the solution to support a seamless SQL modernization effort.

Activities:

- Obtain access to the client's existing SQL database environment and ensure data can be extracted for use in the PoC.
- Provision access to Microsoft Fabric and validate necessary permissions for working with the Fabric SQL Database.
- Review the current SQL database structure, key tables, data volumes, and workload characteristics.
- Define the scope of data to be included in the PoC (e.g., representative tables, schemas, or workloads).
- Define success criteria, including goals for performance, usability, and AI feature adoption.
- Document the architecture and migration approach to guide execution.

Workstream 2: Migrate & Showcase Modernized SQL Database

Objective: Execute the data migration into Microsoft Fabric, validate against success criteria, and present the value of the solution to stakeholders.

Activities:

- Copy the selected data sets from the legacy SQL environment into the Microsoft Fabric SQL Database.
- Validate the completeness, structure, and accuracy of the migrated data.
- Test and compare query performance, responsiveness, and AI-enhanced features like Copilot.
- Create a summary report outlining key findings, benefits, and recommended next steps.
- Deliver a live walkthrough or demo session highlighting the modernized SQL experience in Fabric.

Learn more about Daymark Solutions, visit www.daymarksi.com

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