



Case Study

Governed Data Discovery in Healthcare with Microsoft Purview

Client Overview

A leading healthcare and academic institution faced growing challenges in managing sensitive data across clinical, research, and academic systems. Operating under strict HIPAA and FERPA regulations, leadership required a trusted, compliant way to discover and utilize data without risking exposure or hindering analytics speed.

The Challenge?



Inefficient Discovery

Data discovery relied heavily on tribal knowledge, leading to significant operational inefficiencies.



Sensitivity Identification

Consistently identifying sensitive HIPAA and FERPA data across various platforms was a major hurdle.



Decision Paralysis

The presence of multiple versions of the same KPIs led to misaligned decisions and organizational friction.



Audit Readiness

Compliance teams lacked the necessary tools to demonstrate data controls effectively during regulatory audits.



Security Exposure

There was a persistent risk of accidental exposure of protected information during the manual data discovery process.

Solution Delivered



Unified Data Catalog

Implemented Microsoft Purview as a single, governed data catalog to provide a unified view of all data assets.



Automated Classification

Enabled automated scanning and classification of PHI, PII, and education records to maintain strict regulatory compliance.



Certified Datasets

Established a business glossary and certified datasets to ensure analytics were built on a "single source of truth".



Data Lineage

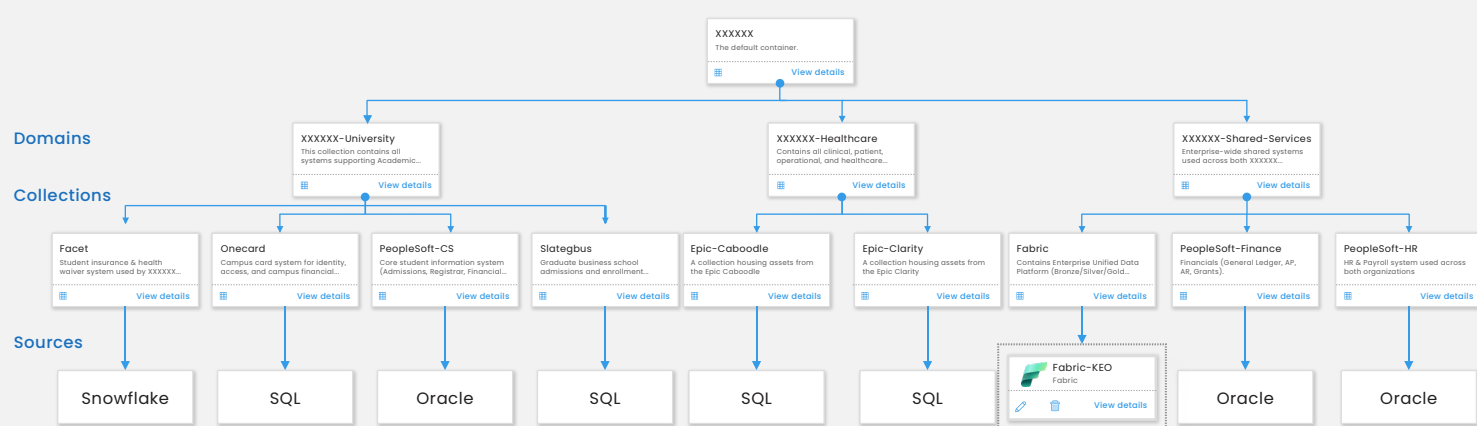
Provided end-to-end data lineage for precise impact analysis and total transparency of data movement.



Access Control

Deployed workflow-based access control with detailed audit trails to ensure secure and authorized data usage.

The Architecture



The Impact

Discovery Speed

Achieved 30–50% faster data discovery, allowing researchers to find critical information in record time.

Risk Mitigation

Significantly reduced compliance risks and remediation efforts for HIPAA/FERPA audits.

Enhanced Trust

Increased confidence in executive dashboards and AI models through the use of certified data assets.

Cost Efficiency

Lowered IT support overhead and reduced the necessity for maintaining duplicate data pipelines.

Agile Decisions

Improved the speed and accuracy of decision making for both clinical and research teams.

Outcome

By implementing a modern, scalable governance platform, the institution successfully transformed its data culture. The conversation shifted from the uncertainty of “Is this data safe?” to the absolute confidence of “This is the trusted dataset.” This foundation now enables the organization to resolve critical data challenges while paving the way for secure, AI-driven insights and improved patient outcomes.



Want to get the same benefits for your business?

At Exponentia.ai, we partner with businesses to address complex data challenges and build trust in enterprise data. Our approach helps organizations streamline data management, improve visibility, and empower teams with reliable insights for better decision-making.

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