

Chemical **Manufacturing** Industry Enterprise **Data Governance** **Transformation** with Microsoft Purview

About the Company

A leading U.S.-based chemical manufacturer, specializes in innovative environmental and agricultural chemical solutions. With operations spanning multiple regions, the company manages vast amounts of customer and product data across its digital ecosystem.



Industry

**Chemical
Manufacturing**

Workforce 1,000+



Service



Microsoft Purview
Implementation



Data
Governance
Automation



Data Quality
Management



Power BI
Reporting

Solution

Data Governance with Microsoft Purview

Implemented a comprehensive data governance framework using Microsoft Purview to provide clear data ownership, visibility, and quality insights across Customer and Product datasets.

01

Ownership & Lineage Tracking

Enabled field- and system-level ownership mapping with full lineage visibility—showing where data originates, how it flows, and where it's used across tables, systems, and reports.

02

Data Quality Insights

Deployed automated quality rules (null checks, refresh validations, and custom rules) to monitor and assign data quality issues to responsible teams.

03

Standardized Data Dictionary

Created an enterprise-wide business glossary with standardized definitions for critical data elements, ensuring consistency and improving onboarding for new users.

04

Automated Lineage for ADLS

Built custom PySpark and REST API-based automation to fetch column-level lineage from Azure Data Lake Storage and Databricks Unity Catalog, seamlessly integrating it into Purview.

05

Governance Monitoring Dashboard

Developed a Power BI report to track and monitor modifications, lineage updates, and governance activities in Microsoft Purview.

06

Results and Outcomes

- Reduced data discovery time from days to minutes with centralized data cataloging.
- 70% reduction in manual governance effort through automated classification, lineage, and glossary mapping.
- 100% lineage visibility for all critical Customer and Product data elements across business systems.
- >80% standardization of critical columns mapped to approved business glossary terms.
- Improved compliance and audit readiness via transparent data tracking and classification.
- Enhanced data trust and collaboration among business, IT, and governance teams.
- Scalable governance framework enabling easy expansion to new datasets and domains.