



Breaking Data Silos

SUMMARY

Our client, an agricultural retail company, faced a persistent challenge: business-critical data existed in three separate systems that were expected to match but consistently failed to align. The disconnect was due to inconsistent data rules, siloed information flows, and minimal collaboration across business units. This fragmentation made it difficult to surface accurate metrics, validate business decisions, and trust the outcomes of key data projects, including an SAP migration.

SOLUTION

Our team was engaged to unify these data sources and provide visibility into cross-system data parity for the first time. Leveraging Snowflake, we centralized data from the three systems, creating a scalable and flexible foundation for analysis. DBT was used to simplify data modeling, streamline transformations, and ensure transparency through rigorous testing and documentation.

The testing of data pipelines not only validated core assumptions but also revealed long-standing data quality issues, such as entity mismatches and outdated naming conventions, that had gone undetected. We cataloged data comprehensively, enabling clear traceability and supporting stakeholder trust. Using Snowflake's compute flexibility, we conducted ad-hoc investigations and traced lineage to support data governance efforts. PowerBI was then used to visualize the integrated datasets, allowing teams to interact with the data and understand key insights.

Throughout the engagement, we helped foster collaboration between historically disconnected teams by presenting findings that were grounded in data, sparking new cross-functional conversations.

RESULTS

> 1,000

> 1000 issues
found/resolved

Faster

Cut development time
through targeted
process and tool
changes

Visibility

Delivered visibility
into record issues,
enabling targeted
fixes