

Empowering Data Analytics with Azure Data Factory on the Cloud



An Overview

An Industry Leader in Architectural Products and Services faced challenges in achieving a single source of truth for profitability reporting due to the presence of multiple heterogeneous ERP systems. With eight or more ERP systems for different functional areas, there was a lack of an integrated data platform for analytics and reporting. Adoption challenges arose with the introduction of new platforms and tools, requiring assistance in evaluating options for a green field implementation of Data Warehouse. Additionally, business users encountered difficulties in understanding data descriptions and relationships (metadata) from enterprise systems.

Business Goal

Develop and construct a state-of-the-art Enterprise Data Analytics platform, incorporating migrating reports and historical data, and establishing automated data pipelines. The upgraded reporting interface will seamlessly utilize the advanced Snowflake platform on Azure, ensuring minimal disruption to business operations.

Key Solutions

Unified Data Platform:

- Automated data processes for streamlined operations and support in reporting.

Synergizing with Snowflake:

- Leveraged Snowflake's cloud-agnostic, autoscaling SaaS model.
- Collaborative Solution Engineering for Seamless Data Migration
- Smooth migration of data and related processes to the Snowflake platform, optimizing performance and efficiency

Scalable Integration Framework:

- Developed and architected a framework for efficiently retrieving data from MDM and distributing it to different applications/ERPs across business units.
- Constructed a data delivery framework catering to ad-hoc/self-service reporting, advanced analytics, and seamless 3rd party integrations.

Enhanced Financial Reporting:

- Created data models and processes, maintaining a comprehensive history of essential business entity records.

Efficiency with MS Azure Tools:

- Improved financial reporting efficiency by replacing manual efforts with MS Azure tools and technologies.

Better Visualization:

- Power BI served as the reporting and visualization tool.
- Leveraged Azure Analysis Service for constructing the semantic layer (enabling self-service) and optimizing caching.

Aggregated and Transformed Data:

- Aggregated and transformed data in batch processing.

Accuracy Enhancement:

- Improved financial reporting accuracy with the incorporation of components for data quality checks during processing.

Enterprise Data Governance:

- Implemented best practices of enterprise data governance to unify data regulations and processes across the organization.

Data Security:

- Secured the data as per PII and GDPR policies by encrypting and masking the data at rest and in transit.

Business Benefits



Accelerated - Data Accessibility for Profitability Business Reporting



Cost Savings - Reduction in Total Cost of Ownership (TCO) by reducing the license cost, hardware, and on-going support costs.



Performance Efficiency - Enriched system's capacity to seamlessly adjust to fluctuations in workload, ensuring optimal performance.



Operational Excellence - Operations processes that keep a system running in production.



Reliable and Transparent - Enhanced data integration and analytics for business users



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With 40+ offices in 19 countries, we empower enterprises worldwide to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.