

D&A TRANSFORMATION TALES

A Game- Changing Data Integration Experience with Data Consulting



BACKGROUND

The client, a leader in specializing in educational products, was facing numerous challenges in managing their data infrastructure. Here are some of the challenges for which the client was looking for an expert's advice to surmount them:

- **Data Integration:** The client faced difficulties in integrating data from various sources, including legacy systems, cloud-based applications, and data warehouses. This led to data inconsistencies and hindered the organization's ability to gain insights from their data.
- **Data Conversion:** The client needed to convert their Excel dashboard into an interactive dashboard in Power BI, which required expertise in data visualization and analytics.
- **Data Warehousing:** The client required a data warehouse for historical data to support their reporting and analytics requirements.



THE SOLUTION

To address these challenges, the client required a comprehensive assessment, integration, and management strategy that would help them develop a unified data infrastructure. Given our expertise and industry-leading IT services across various industries, the client partnered with us to position them to make data-driven decisions and improve their business performance using this business opportunity.

To meet the client's specific business challenges and needs, our data experts developed a strategic approach and proposed the same to the client for approval and feedback. Here is how the approach looked, and the client was quite delightful about the expected business outcomes our data consulting services would bring for them:

- **Data Collection:** Raw data was collected from the various ERP systems to ensure that all relevant data was captured and consolidated.
- **Data Gap Analysis:** Based on several analyses done in the initial stages of the project, our engineers conducted a data gap analysis to identify gaps in the client's data infrastructure, such as the absence of data standardization, common patterns, and models, data replication and lack of relationship across products.
- **Data Migration:** The data was moved from the FTP server to the Azure SQL (Staging DB), which served as an intermediate storage for data processing and transformation.
- **Data Warehouse:** Dimension and fact tables/views were created using SQL scripts in the Report DB, which served as the foundation for the data warehouse.

- **Dashboard Development:** Developed Interactive dashboards using Power BI to enable the client to visualize their data and gain valuable insights into their business operations.
- **Data Incremental Load:** The process for incremental load of data from ERP systems to the dashboard (Power BI) was automated. This way we ensured that data was always up-to-date and accessible when needed.
- **Process Automation and Validation:** The process steps were automated and validated at each stage/level, adding desperately needed accuracy and efficiency measures.



TECHNOLOGY SNAPSHOT

- Azure SQL (Staging DB)
- SQL Scripts for DWH creation
- Power BI for dashboard development
- Azure SQL (Report DB) for data storage



BUSINESS BENEFITS

- A single version of truth for a bigger picture of reporting operations
- Automation of raw files
- Improved data quality
- Seamless data management



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