Industry

Services Used

Data Analytics

Tableau

Region

Middle East

• Business Intelligence (BI)

• Digital Transformation

Function/Department

• Customer Service and Support

Facilities and Administration

Procurement and Purchasing

End to End Project Lifecycle Management

• Operations Management

Engagement Model

Manufacturing & Industrial Engineering

ABOUT CLIENT

- · A global leader in industrial technology, employing 20,000+ staff and supporting more than one million partners across 100+ countries across the globe.
- · They operate in multiple sectors like industrial, commercial, residential, healthcare, data centers, and government.
- The company's goal is to provide custom solutions to enhance energy, efficiency, sustainability, and reliability through advanced Al-backed Industrial IoT and automation technologies.

PROBLEM STATEMENT

The company highlighted multiple challenges in its buyer's workflow when we first sat together for a discussion. Here are the key issues we identified:

Tracking Buyer and Product Insights

- · They struggled to track and analyze buyer behavior accurately, including identifying unique buyers, the specific products purchased, and the quantities involved.
- This lack of detailed tracking impacted inventory management, resulting in stock shortages or overstocking.
- It also hindered accurate demand forecasting, affecting operational efficiency and customer satisfaction.

Data Overload

- The company received an overwhelming volume of data from buyers, which was difficult to process and analyze effectively.
- This data overload slowed down decision-making within the firm and limited its ability to respond quickly to market fluctuations.

SOLUTION

Our experts implemented a robust and streamlined workflow to address the company's data management and analytics challenges. Here's how we solved their issues:

Data Organization and Structuring:

· Our team ensured that data collection from various sources was consolidated and standardized in Excel, laying a consistent foundation for further processing.

Efficient Data Transformation with SQL & ETL

- · We developed scripts and workflows to import Excel data into an SQL database, structuring it for efficient querying and manipulation.
- Our developers implemented a seamless ETL (Extract, Transform, Load) pipeline to clean, normalize, and transform the data, making it analysis-ready.

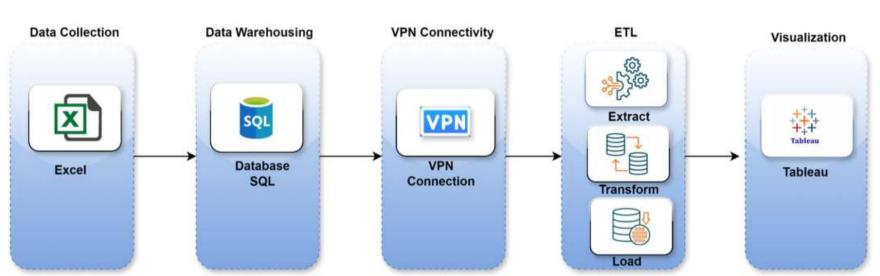
Secure Data Transmission

· To protect sensitive company information, we set up secure VPN connectivity for data transfer across systems. This ensured encrypted and reliable communication between the Excel source, SQL database, and Tableau server.

Data Visualization in Tableau

- Our experts integrated the processed data with Tableau, designing interactive dashboards to visualize key metrics and performance indicators.
- · These dashboards offered real-time insights, enabling stakeholders to filter and analyze data easily.

TECHNICAL ARCHITECTURE



75% Reduction in Data Handling Time:

BUSINESS IMPACT 95% Accuracy in Buyer Tracking: Successfully identified unique buyers and analyzed their purchasing behavior, providing reliable insights for customer engagement strategies. 90% Improvement in Product Management: Enabled precise tracking of purchased products and quantities, leading to optimized stock control and product planning. 85% Boost in Inventory and Forecasting Efficiency: Enhanced demand forecasting and inventory management, aligning stock levels with market demand to minimize overstock and shortages. Implemented a robust processing framework that streamlined data workflows, accelerating analysis and actionable decision-making. 70% Decrease in Data Overload: Mitigated the impact of excessive data influx, improving the organization's ability to process and interpret data efficiently. **Role-Based Access Control:** Introduced structured data access amid stakeholders • 100% Access for top management to all data levels. • 60% Access for middle management to relevant and team-specific data. • Role-specific access for end users to ensure secure and task-oriented data availability. The new data management system has greatly improved buyer tracking, inventory management, and demand forecasting, with increased accuracy in buyer tracking, improvement in inventory and forecasting, and reduced data overload. With better data security and streamlined access, the client and related stakeholders now can make more informed decisions and operate more efficiently. DataToBiz®

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