

SUCCESS STORY



CLOUD MIGRATION & BI IMPLEMENTATION FOR AN E-PAYMENT PROVIDER IN SE ASIA

PROJECT OVERVIEW

The objective of the project was to address the limitations of the client's existing database system and enable real-time data analysis for enhanced business insights. By implementing a more efficient and scalable solution, the client aimed to gain timely and accurate information to make informed decisions.

The project involved the evaluation and deployment of advanced database technologies to ensure seamless real-time data fetching and analysis. Through this initiative, the client aimed to improve operational efficiency, optimize business processes, and enhance their overall customer experience.

SOLUTION DELIVERED

Cloud Migration & Bi Implementation

CLIENT DOMAIN

Fintech

KEY HIGHLIGHTS

- Quality of the data visualization improved by 80%.
- 30% Cost reduction

ABOUT CLIENT

The client is a prominent player in the contactless payment industry in Southeast Asia. They provide support to public transit networks and various other sectors within their country. With over 40 million contactless payment cards issued, they have established a significant customer base. Given the scale of their operations and the large volume of daily transactions, real-time understanding of their business was crucial. However, their existing traditional database system (Oracle) was unable to efficiently handle real-time data retrieval.

BUSINESS REQUIREMENTS

The requirement was two-fold as stated below:

- Design and develop load balancing of the query load and efficient archiving of the data.
- Build and validate the connectors to the various data sources that would feed into the Data Warehouse.

Additional tasks included:

- Migration of data from on-premises to a cloud environment (Oracle to Azure SQL DW).
- Create specific reports and dashboards based on key performance indicators (KPIs) with real-time data.

SOLUTION HIGHLIGHTS

Indium structured a robust and highly scalable Data Warehouse ecosystem to address the data storage and processing needs of the client's business.

Key objectives:

- Non-volatile and near real-time querying support.
- Provision high availability needs of Data Warehouse for on-demand reporting and analytics.

To achieve these objectives, the following steps were taken:

- Implementation of NiFi: Indium utilized NiFi to obtain near real-time data for the Data Warehouse.
- Leveraging Azure BLOB for data archiving and staging: Indium efficiently archived and staged the data using Azure BLOB, ensuring effective data management.

- Bulk loading data to Azure SQL DW: The data generated through contactless payment cards was bulk loaded from Azure BLOB to Azure SQL DW to handle the significant data traffic resulting from day-to-day transactions.
- Data aggregation for data visualization: Indium implemented an additional layer in the Data Warehouse to aggregate the data, making it easier to present and visualize using Power BI.

BUSINESS IMPACT

The implementation of the Data Warehouse ecosystem had the following significant business impacts:

- Improved data visualization quality: The Data Warehouse resulted in an 80% improvement in the quality of data visualization, enabling better insights and decision-making.
- Cost reduction: The migration of a large volume of data from Oracle to SQL Server using open-source ETL tools led to a cost reduction of 30%.
- Enhanced performance: Performance tuning of the ETL jobs resulted in an overall processing time reduction of 50%, improving data processing efficiency and timeliness.
- Secure data recovery: The efficient archival capabilities enabled by the cloud environment and the implementation of alert systems ensured data recovery was secured. This allowed for quick action in case of disaster recovery scenarios.

TECH STACK



ABOUT INDIUM

Indium Software is a fast-growing Digital Engineering company, focused on building modern solutions across Applications, Data, and Gaming for its clients. With deep expertise in next-gen offerings combining data and applications, Indium offers a wide range of services including Product Engineering, Low-Code development, Data Engineering, Ai/ML, Digital Assurance, and end-to-end Gaming services.



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