



Integration Pipeline for Cash Flow Analysis



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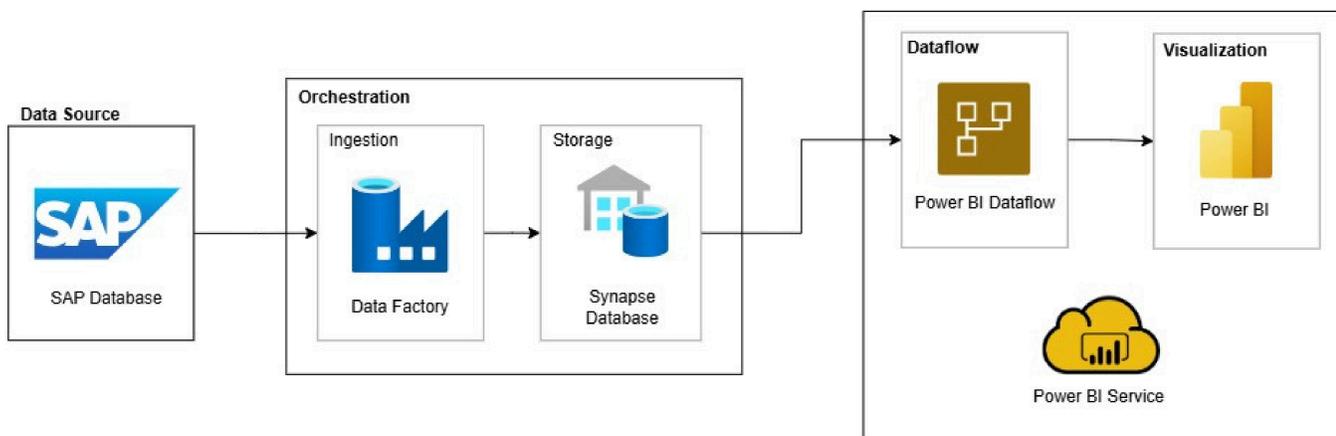
ABSTRACT

The goal of this project is to focus on preparing financial data and creating cash flow dashboards for a company's financial team. The pipeline involved transferring data from SAP HANA to Azure Synapse, preparing datasets, building data models, and visualizing cash flow information through reports and dashboards. The results confirmed data accuracy, clear presentation, and user satisfaction, enabling the company to analyze business performance and support future decision-making.

INTRODUCTION

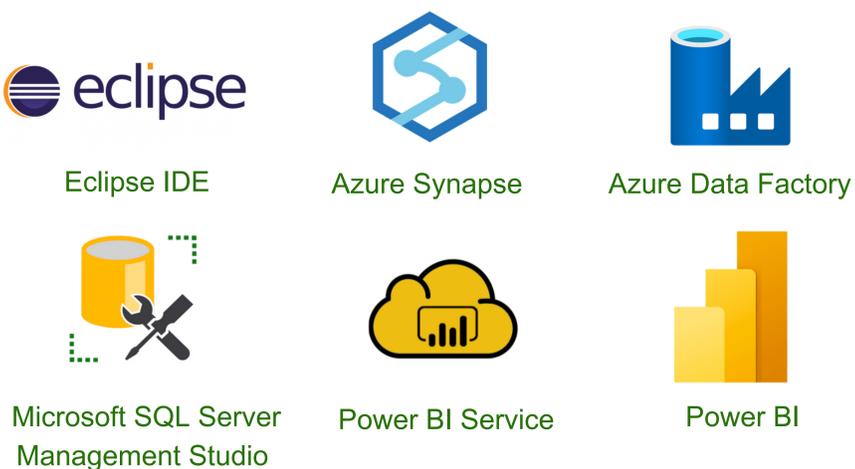
- Understanding the insight of a company's cash flow is a key factor in driving business success, as this data is crucial for informed decision-making and can lead the direction of business operations.
- This project prepares and analyzes cash flow data using data analytics, this project aims to enable the company to utilize cash flow reports and dashboards to monitor and analyze operational performance from January to July 2024.

METHODOLOGY



1. Gather user requirements.
2. Create data pipelines to ingest data from data source to destination.
3. Transform data.
4. Design and create a data model.
5. Create dataflow.
6. Visualize data to reports and dashboards.

TECHNOLOGY



CONCLUSION

- This project transformed financial data from SAP HANA to Azure Synapse, ensuring accuracy through structured modeling and processing. The dataflow enabled seamless visualization in dashboards, providing clear insights for financial decision-making for the company.
- The integrated cash flow analysis was successfully delivered to the company's finance team, enabling them to use the dashboards and reports to support their operations effectively.

Reference : Brandon Gubitosa (2024), Data Orchestration: Benefits, Challenges, and Framework. From <https://rivery.io/data-learning-center/data-orchestration-complete-guide/>