



DATA LEAGUE

from Inception to Insights

End to End
Power BI
Implementation



Intro

An international airport operates multiple business units, each using different applications for data management such as SaaS and Legacy Applications with data in structured and semi-structured formats (Excel, SQL, Oracle, CSV, XML, and JSON). These business units were running their reports on Excel but were facing challenges in handling large amounts of data, creating interactive and visually appealing reports, and limited functionality for data analysis.



Challenges

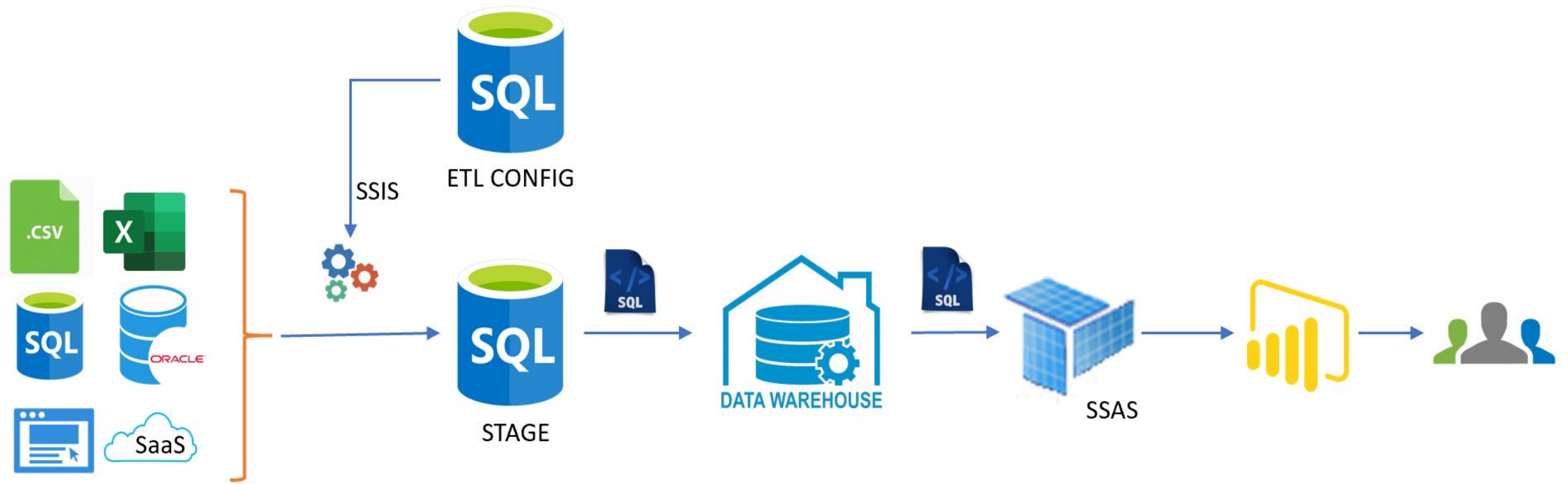


- Each business unit has its own SME generating excel reports representing their unit and one SME who consolidates all the reports from 10+ business units into subjective dashboards to present them to an Executive team on periodical basis.
- Lot of human intervention causing inconsistencies and error prone reporting.
- Poor data governance

Solution

Our team proposed a comprehensive solution to address the challenges and achieve the desired state:

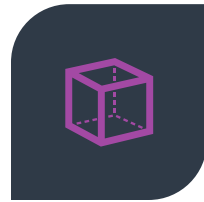
- After a deep learning of the current operational workflow and evaluating the current state of infrastructure, our consultants have designed an efficient data strategy to consolidate and visualize the organisation data.
- Identified all the data sources and applications used by the different business units. Extracted the data from these sources and applications, cleansed, transformed, centralised the data and ensured that it is in the correct format for Power BI.
- Automated the data ingestion process avoiding manual intervention.
- Developed a scalable data model to serve as a semantic layer.
- Created a set of interactive reports and dashboards in Power BI replacing static Excel reports.
- Configured roles and delegated access making sure that right user has right access to the data.



Results



Error free reporting interface.



A data model that can handle large amounts of data and support advanced analytics. This allowed the airport to analyse data in new ways, such as forecasting future passenger numbers and revenue.



Customisable dashboards: staff can create and customise their own dashboards based on their specific needs and roles.



Improved data access: staff can now easily access and understand the data they need to make informed decisions.



Enhanced data visualisation: interactive visualisations make it easy to spot patterns and trends, allowing staff to identify areas for improvement.



Trained its staff on how to use Power BI, and set up a system for regularly updating the data and dashboards



Through meticulous planning, seamless data source integration, pipeline automation and scalable data models, our consultants successfully implemented an end-to-end data analytics platform. This transformation not only enhanced data integrity and efficiency but also provided consistent reporting across organisation, ensuring a seamless experience for end-users. Our expertise in data analytics and automation proved pivotal in achieving the client's objectives and driving operational excellence.

For more information on how our data consulting services can help your organisation with similar challenges, please contact us at info@dataleague.com.au.