Milaha Shipnet Azure MSSQL to BQ Migration

Worked to create a more performant data structure, efficient data warehouse layers, for the specific dashboard they requested. BigQuery was used to create the data warehouse layers, and the dashboard was created in PowerBI using the new layers.

The challenge

In the old structure in Azure, calculations were made with DAX formulas on the PowerBI, Since they did not have reusable data warehouse layers the performance of the dashboard was not sufficient. The challenge here is to convert DAX calculations to BigQuery logic using SQL and necessary technologies and then create the data warehouse, revise the entire DAX layer and recreate the dashboard in PBI.

The solution

We converted the DAX formulas in PBI to SQL-based calculations, building a more efficient structure, and built self-service BI-friendly data warehouse layers in BigQuery using Dataform. Once the data warehouse was created, we rebuilt the requested dashboard. We changed the dashboard's data source, rebuilt almost all of the DAX logic, and rebuilt the dashboard in PowerBI.

The result

As a result, we now have a PowerBI dashboard with better performance, where we do most of the calculations in BigQuery and use only the switch logic in PBI, and new data warehouse layers in BigQuery. When a change is requested, it can be easily done with Dataform. In addition, the new data warehouse structure in BigQuery is also suitable for self-service BI.

> " Oredata's team demonstrated an impressive blend of technical expertise and in-depth knowledge, which greatly contributed to the project's success. Moreover, your team's commitment to quality deliverables and adherence to industry best practices was particularly valuable and a strong asset to the partnership. "
>
> Abdirahman Shire, Data Warehousing Specialist, Milaha - Qatar Navigation Q.P.S.C.

About Milaha - Qatar Navigation Q.P.S.C.

Milaha was founded in 1957 as a public "shipping agency". It has quickly grown into a leading international giant providing reliable "Maritime & Logistics" services to its clients in the GCC, Middle East and worldwide. It has a strong focus on providing integrated transportation, maritime services and supply chain solutions.
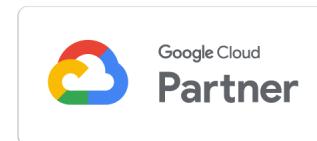
Vertical/horizontal solution: Logistics

Primary project location: Qatar

About Oredata Yazılım Limited Şirketi

Oredata enables to perform business analysis on big data, offers comprehensive services including data integration, transformation and visualization.

Products

Google Cloud Platform