



Cost-effective migration to Snowflake Data Warehouse from EDW

INDUSTRY

Grocery Retailer

TECHNOLOGIES

Snowflake

Goals

Below are the goals that the client wanted to achieve:

- Migrate the on-premise EDW to the cloud-based storage platform
- Lower infrastructure investments.
- A modern EDW that enables analysts to work with larger data volumes
- Easy maintenance and scalability.
- Cloud adaptation

The Challenge: Migrate on-premise EDW to Cloud-based storage

Our client is a grocery retailer, they wanted to migrate an entire on-premise EDW to a cloud-based data storage platform. So, that it can be cost-effective in their infrastructure investments, and at the same time become efficient and effective in maintaining their EDW. DataFactZ was engaged to provide strategy and adoption of EDW on the cloud to achieve their goals.

The Solution: Recommended to use Snowflake Data Warehouse

After investigating the needs of the client, Data-

FactZ enabled the client's vision by providing an assessment and POC on various cloud-based EDW solutions and recommended the use of Snowflake Data Warehouse to meet all the demands of the customer's goals. DataFactZ's recommendation to use Snowflake is based on the below aspects

- Maintenance, Cost, and Performance
- Managing Storage of Complex Data
- Building Customer Confidence by first adopting the tool on a smaller scale

Our goal as an implementations partner was to migrate this EDW into the cloud without causing any impact to existing reporting until all migration was complete. The customer's on-premise EDW was maintained on a Netezza platform with ETL jobs running on DataStage. There were close to 70 dimensions and 12 facts as part of this EDW. All complex metric calculations derived from this EDW were consumed by legacy shared reports and legacy ad-hoc reports via MicroStrategy. As part of our migration exercise, we not only had to lift and shift the existing EDW into the cloud, but also enable future daily data increments into the cloud in an automated fashion, all while decommissioning the on-premise tables and views, and recreating its logic in Snowflake. This provided a pathway for existing report users to seamlessly switch to Snowflake Database in the backend.

The Results: Easy access to modern data and BI tools

The customer was able to quickly see their short-term goals come to fruition. They saw that it enabled analysts to fully leverage modern data and BI tools without limitations of dated technologies, and are slowly realizing the long-term goals come into effect, as some of the advanced users are now able to self-service data preparation and reporting needs. They are now able to blend 3rd party data with the new cloud EDW.

Environment:

Below is the list of technologies that DataFactZ helped the client to transition from

PLATFORM

Azure Cloud Platform

EDW

Netezza to snowflake

BI TOOL

MicroStrategy

Data Process

DataStage

The Next Step



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