LTI
Let's Solve

A Larsen & Toubro Group Company

Case Study

Data Warehouse Migration to Google Cloud:

Denmark-based Leading Wholesaler Democratizes Analytics to Enable Real-Time Warehouse

Client

The client is a Danish retail company, a leading supplier to the food service sector. The company offers a range of convenience goods to independent, as well as chain-based supermarkets, kiosks, grocery stores, convenience stores, and restaurants.

Challenges

- Legacy DWH to Google Cloud Platform modernization to build a cost-effective solution on cloud, reducing support & maintenance efforts.
- Data integration & modelling to unify processes and streamline disparate and varied sources onto a common platform.

LTI Solution

- BigQuery is leveraged as the cloud data warehouse solution to host the POS and dimensional data sets.
- Simplified data model from multi-layer model to a single layer by reducing entities from 400+ Teradata tables to 90+ BigQuery tables.
- Replaced batch loading with 'As-and-when' Data Availability Ingestion pipelines using Google Cloud Storage, Pub/Sub, and Dataflow to achieve near real-time data processing with GCP compared to the five-hour batch window with the legacy system.
- POS analytics were enabled using machine learning and statistical models to find patterns and identify anomalies.
- Advanced Analytics through semantic reporting on real-time data warehouse is developed leveraging Geolocation, Machine learning, and IoT.

Business Benefits

- **30%** increase in business performance
- **20%** boost in the detection of POS fraud patterns with AI/ML algorithms.
- **~40-50%** reduction in the cost related to support and maintenance.

Key Takeaway

Built unified cloud-based data platform on GCP to democratize analytics to enable real-time warehouse to leverage Geolocation, Machine learning and IoT.

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