How Nihilent Helped Marks & Spencer Achieve a Single Source of Truth with AWS-Snowflake

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THE PROBLEM AT HAND

Marks & Spencer is operating in-store retail, e-commerce, and marketplace business in India. They have embarked upon their digital transformation journey by creating a single source of customer and business data to create a data driven decision making culture across the business. As an omni-channel retail brand they have multiple data sources across their sale channels, supply chain network as well as partners. As a part of master franchise business in India their store sales data is currently captured by the enterprise network of the master franchise. The key challenge was to capture data from all possible data sources and bring it together in one Enterprise data warehouse.

WHAT DID NIHILENT DO?

Nihilent played the role of a strategic partner with expertise in data engineering in helping them to identifying Snowflake on AWS as the platform to create this Enterprise data warehouse. We helped Marks & Spencer to consolidate various data sources to create an enterprise data lake with AWS Cloud. We set up an enterprise data warehouse using AWS and Snowflake to create a single source of truth for Omni channel sales and various data sources.

Nihilent used AWS Glue for the ETL framework, Glue Studio for designing and developing the ETL jobs, and Snowflake as a choice of Data warehouse using multi-layered architecture. The project is being rolled out in multiple phases to align with the change management needs across the enterprise and the first phase of setting up the data lake and data warehouse has been delivered with identified data models.

HOW DID IT HELP?

The implemented Enterprise data warehouse will act as a single source of truth and enabled next-to-real-time reporting for current and future business needs. The Snowflake Datawarehouse solution is easy to up & down the scale, easy to maintain/sustain, user-friendly & has high availability.

Business End users can use Snowflake for running ad-hoc queries on the data tables for any reporting requirements. The solution can support multiple batch ingestion daily and incorporate ETL logic inside Snowflake stored procedures. Its layered architecture also enabled future sources to be integrated easily. Various Cloud and Data security measures were also implemented in AWS and Snowflake to implement User level access, data encryption and data masking.

> **Nihilent was a strategic partner with expertise in data engineering in helping Marks & Spencer identify Snowflake on AWS as the platform to create this Enterprise data warehouse.**

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