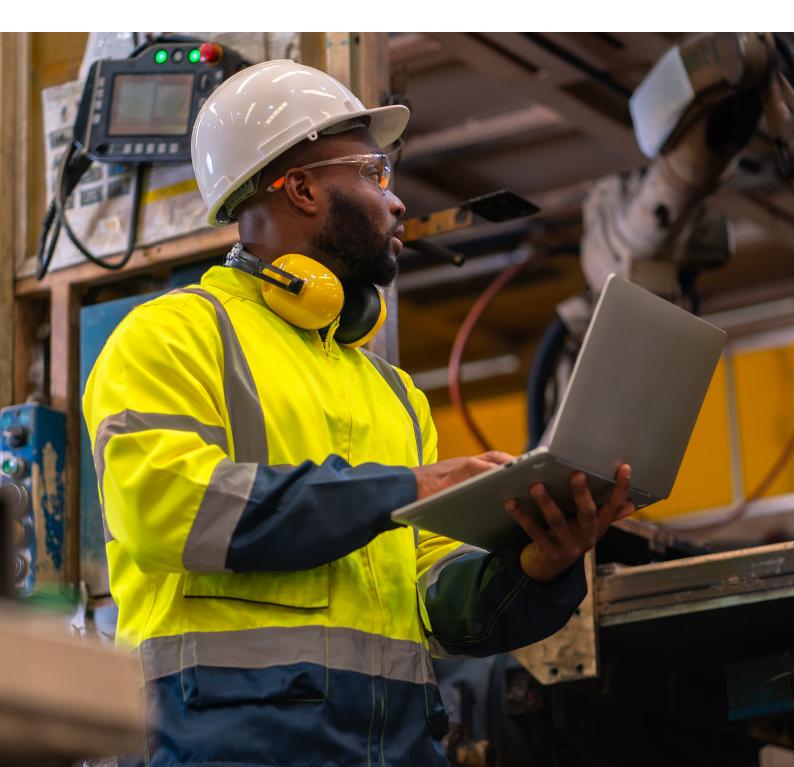# HCLTech | Supercharging Progress™

Enhancing business intelligence for a leading **lighting solutions** provider

Achieving a single source of truth, enhancing self-service reporting and analytics

The client, a renowned multinational lighting corporation, partnered with our team to establish a single source of truth for all business-critical data and roll out Snowflake as a self-service reporting and analytics tool. The client sought a solution for tech-savvy and data-savvy users to perform exploratory analysis, manage data models and create reports/dashboards blended with external/local data sources. The successful replication of data from SAP BW, HANA and ECC into AWS S3 and Snowflake facilitated this. As a result, the client enhanced their digital maturity and reduced the cost of maintaining local infrastructure.

The Challenge:
Unifying business-critical data, implementing self-service analytics and ensuring performance at scale

The client needed a unified platform to serve as a single source of truth for all business-critical data. They also sought to implement Snowflake as a self-service reporting and analytics tool, catering to users who needed to perform exploratory analyses, manage data models and create reports/dashboards. These users were expected to blend data from various external/local sources for their analyses. The client was also looking for a solution that would ensure performance at scale, particularly when accessing large SAP datasets.

The Objective:
Establish a unified source of truth and enhance self-service analytics capabilities

The client aimed to establish a single source of truth for all business-critical data. Their vision was to implement Snowflake as a self-service reporting and analytics tool. They sought a solution that would empower tech-savvy and data-savvy users to conduct exploratory analysis, create and manage data models, and develop reports/dashboards using data from various sources. They also aimed to provide autonomy, agility and flexibility in running ad-hoc analyses for day-to-day improvements and functional KPI reporting.

The Solution:
Replication of data into AWS S3 and Snowflake

Our team replicated the data from SAP BW, HANA, and ECC into AWS S3 and Snowflake, creating a unified platform for all business-critical data. This ensured access to SAP data at scale without any performance issues. We developed various use cases based on systems and ingested data from SAP ECC, Salesforce, BW and HANA sources into the raw layer following defined requirements. We built a function-specific solution that could be used by end users and modified for self-service. We utilized all utility features of Snowflake for ETL (snow pipe, task, stream), eliminating the dependency on third-party tools. Power BI dashboards were built using data from the Snowflake data store.

The Impact:

Reduced infrastructure cost and enhanced digital maturity

The implemented solution resulted in significant improvements, including a reduction in the cost of maintaining local infrastructure. The client was able to access a single source of truth for all business-critical data and provide self-service reporting and analytics capabilities to its users. This improved operational efficiency and enhanced the organization's digital maturity. The solution also ensured scalability and performance, making it an effective tool for future business needs.

HCLTech