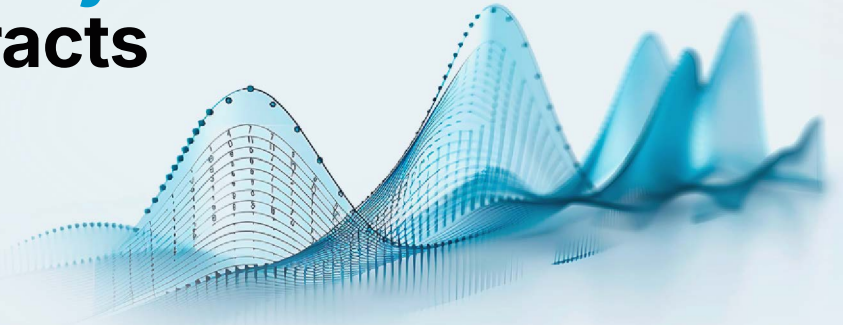


Eliminating 27 Daily Manual SAP Extracts with Automated Snowflake Reporting



CLIENT

Global pharmaceutical company running plant maintenance and manufacturing operations across multiple production sites.

THE CHALLENGE

The client depended on manual, Excel-based extracts from SAP S/4HANA to run plant maintenance and operational reporting.

- Manual export of 9 SAP transaction codes, each run three times per day, totaling 27 extracts daily
- Dependence of 50+ users on these reports for shift planning and daily operations
- Manual refresh of data before every shift, creating an operational bottleneck
- Inability to ingest SAP transaction codes directly, as they carry embedded business logic



SOLUTION

UD4D built a fully automated Snowflake data platform that replicates SAP transaction logic and replaces every manual extract.

- Ingestion of roughly 50 SAP S/4HANA source tables required to rebuild the reporting logic
- Replication of all 9 SAP transaction codes natively in Snowflake, across Plant Maintenance, Procurement and Controlling, Manufacturing, and Inventory Management
- Data Vault modelling for ingestion and Coalesce for transformation
- Dynamic Tables for scheduled, automated refresh without manual intervention
- Tiered refresh strategy: master data daily, transactional data three times daily before each shift, large tables via incremental loads on change date connected to live data.

BUSINESS IMPACT

27 daily manual extracts eliminated: Automated ingestion, transformation, and delivery in Snowflake replaced 27 daily SAP T-code exports and all associated file handling.

9 SAP transaction codes rebuilt natively: All nine T-codes were replicated in Snowflake across maintenance, procurement, controlling, manufacturing, and inventory, creating a single source of truth for operational reporting.

50+ users on shift-ready data: Reports now refresh automatically before every shift, so 50+ users work from consistent, up-to-date data without any manual pre-shift refresh.

3 scheduled refreshes per day: Transactional data refreshes three times a day on an architecture that extends to additional reports and domains without new manual effort.

TECHNOLOGY STACK

Snowflake | SAP S/4HANA | Data Vault | Coalesce | Dynamic Tables