

EDW TO SNOWFLAKE – WORKLOAD TRANSFORMATION SOLUTION

Automate Your Transformation Journey from EDW to Snowflake

Enterprises are increasingly looking for solutions to overcome the limitations of legacy data warehouses. As traditional data warehouses remain constrained by performance, scalability, and elasticity issues, the adoption of next-generation cloud data warehouses is gaining momentum.

A cloud-based data warehouse like Snowflake provides a decoupled data architecture, eliminates the need for complex remodeling, and facilitates unified data across hybrid sources.

Enterprises moving to Snowflake can experience benefits such as full SQL support, serverless architecture, strong partnerships with BI and ETL tools, and ease of maintenance. However, moving workloads from legacy environment to cloud has its own complexities. Some of these are listed below.

Key challenges when moving from EDW to Snowflake

Legacy environment

- Risk of moving mission-critical applications already in production
- Redundancy, complexity, and inconsistency
- Multiple ETL/ELT jobs in progress on legacy environment

Cloud

- Identifying optimal cloud data architecture components
- Transition to cloud-native capabilities (native schedulers, ingestion, governance, metadata management, etc.)
- Manual transformation of data types and SQL compliance
- Query (semantic and syntactic) and data validation
- Decommissioning legacy systems

The Impetus Workload Transformation Solution brings together data-driven decision support, automation, and cloud data platform expertise to address these challenges through a 3-step process.

KEY FEATURES

- Data types – configuration driven mapping (XML file) from source data warehouse to Snowflake data types
- Source Database DDL conversion as Snowflake Schema DDL
- View DDL conversion
- Source DML conversion to SnowSQL
- Source scripts and business logic conversion to Shell or Python wrapper
- Procedural constructs (loops, cursors, etc.) conversion to Spark Scala, PySpark, or Python wrappers

STEP 1: Assessment

- Automated legacy data warehouse inventory and profiling
- Identification of workloads (metadata, data, etc.) and dependencies
- Creation of optimized schema (clustering keys, Parquet format/file size for S3 uploads, etc.)
- Grouping of workloads into migration units

STEP 2: Transformation

- Up to 90% automated code conversion to SnowSQL
- Automated data migration to an optimized schema
- Automated handling of data types, nested views, intervals, loops, UDFs, procedures, etc.
- Creation of patterns for the target platform (ingestion, data sync, recon, lineage, security, orchestration, etc.)
- Auto-generation of patterns for newer migrations
- Query-editing for optimized fixes and performance tuning

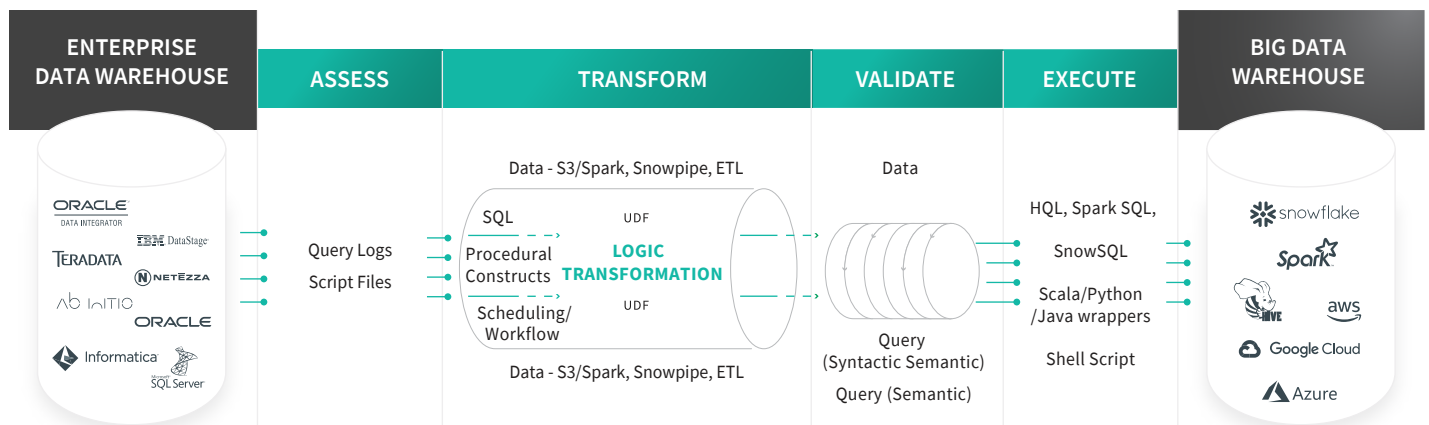
STEP 3: Validation and Execution

- Auto-generate validation/reconciliation scripts
- Enable execution through pattern orchestration/execution engine
- Accelerated decommissioning methodology to retire legacy footprint

KEY BENEFITS

- Reuse all your existing investments
- Automatically transform decades of effort in 12-20 weeks
- Fast and reliable end-to-end EDW transformation
- Strategize between migrating as-is and total re-engineering to achieve maximum with least effort

The Impetus Workload Transformation Solution creates a fine balance between migrating as-is and total re-engineering, ensuring a seamless transition to Snowflake. To learn more about our transformation solutions, contact us at inquiry@impetus.com.



The Impetus Workload Transformation Approach

IMPETUS

Impetus is focused on creating big business impact through Big Data Solutions for Fortune 1000 enterprises across multiple verticals. The company brings together a unique mix of software products, consulting services, Data Science capabilities, and technology expertise. It offers full life-cycle services for Big Data implementations and real-time streaming analytics, including technology strategy, solution architecture, proof of concept, production implementation and on-going support to its clients. To learn more, visit www.impetus.com or write to us at inquiry@impetus.com.