



Automated workload transformation from Oracle to Snowflake

VIDEO TRANSCRIPT

Impetus Workload Transformation Solution eliminates the slow, error-prone, expensive practices of manual migration and automates end-to-end enterprise data warehouse transformation. We bring all the pieces of the puzzle together so that your journey to a cloud-native stack is fast, affordable, and risk-free.

Here's a demo of how Impetus Workload Transformation Solution simplifies the migration of Oracle legacy workloads to Snowflake.

It first assesses the existing Oracle workloads and provides prescriptive, actionable recommendations for offloading these to Snowflake in a phased manner. Based on the code complexity analysis and existing dependency structure, it provides optimization recommendations at the schema, code and orchestration level. It also provides key resource utilization metrics for planning

capacity on the target environment.

Here are important stats for applications, important stats for users, information on file complexity, and information on query complexity.

To help meet production Service Level Agreements, the solution provides parallel orchestration opportunities at a file level.

This page shows parallel orchestration opportunities for queries contained in a file.

This page shows the dependency structure between files for faster orchestration on the target.

A comprehensive, graphical lineage showcases the interdependencies between different workloads.

Here are actionable recommendations for phased migration.

The assessment recommends an optimized target schema to improve CPU usage, memory usage, cache hit ratio, and disk I/O.

Various reports can also be downloaded for a detailed analysis.

Next, based on these recommendations, the solution transforms the legacy workloads to Snowflake using an intuitive, pipeline-based, drag-and-drop interface.

Migration converts the schema and migrates the data. Data Validation validates the migrated data. Transformation transforms the code to a target equivalent. Query Validation validates the transformed code. Execution executes the transformed code in the target environment.

Let's look at the pipeline execution reports. This is the migration report for all the converted schemas and migrated tables.

This is the data validation report for all the migrated tables.

Let's look at the configuration of the transformation step.

This shows Oracle stored procedures as the source and Snowflake Java script as the target script.

Let's look at the transformation reports.

This is the code transformation report for all the transformed queries and scripts.

Certain SQL queries may contain user-defined functions and reserved keywords which have been transformed to a Snowflake equivalent.

Let's look at the original and transformed queries. You can use this lightweight, inline SQL editor to modify and optimize queries which have been packaged back with the business logic.

This is the converted Snowflake compatible Java script packaged back with all the procedural logic and SQL statements in place.

This interface can be used to perform inline edits and optimizations.

The final transformed, packaged and optimized code is now ready for execution on the target environment.

The solution's holistic approach further includes end-to-end operationalization of migrated workloads on Snowflake.

For over a decade, we've helped Fortune 100 companies take data-driven decisions with absolute confidence and drive powerful business outcomes they'd never even imagined.

We can guide you through this process, starting with an assessment and proof of concept to build the foundation for a successful project. Our support model is flexible based on your needs, ranging from providing transformed and validated code up through end-to-end transformation services. We're here to accelerate your modernization journey.