

Intelligent and automated transformation of SAS analytic workloads to Snowflake

Offloading SAS workloads to a distributed processing paradigm can help enterprises cut costs while establishing a vendor-agnostic, easily scalable analytics platform. However, migrating SAS workloads, including procs, macros, data steps, and entire datasets to Snowflake is complex, as the scripts contain thousands of conditional statements (logic), statistical algorithms, advanced SAS algorithms, and outputs. It is also difficult to ascertain the accuracy and precision of migrated SAS analytical models.

Migrate SAS workloads to Snowpark with LeapLogic

LeapLogic, Impetus' automated cloud accelerator, streamlines, and de-risks the complete transformation of SAS workloads to Snowpark. Achieving up to 80% automation in the initial iteration, LeapLogic facilitates end-to-end assessment, transformation, validation, and operationalization of workloads. Its intelligent, pattern-based transformation engine effortlessly manages diverse code patterns, constructs, dialects, and functions, etc. converting them into a Snowflake-native equivalent for enhanced compatibility and performance.

Key Benefits

Compared to traditional approaches, LeapLogic enables:

- **4x** faster transformation
- **1.5x** faster validation
- 2x cheaper than manual migration
- **50%** migration acceleration
- 100% risk compliance
- 100% SLA adherence

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Step 1: Assessment

- Lists entire inventory to provide actionable insights for disparate workloads
- Architecture and tech stack components

 Assesses usage patterns to categorize workloads into three major buckets

ETL usage	SAS statistical	Advanced SAS algorithms
 SQL operations + SAS procedural Operations like pyscan, pysum, upcase, intnx, input, put, intck, ifn, catx, cats, lowcase, pymean, etc. 	 Base operations + SAS procedural Operations like proc_append, proc_datasets, process_dataset, hash_table, proc_contents, proc_tabulate, unionAllDatasets, proc_stdize, proc_summary, calculate_stats_with_func, calculate_Stats_ForType_1ToN_GroupByCols, NULLIFZERO, proc_transpose, 	 Advanced SAS algorithms Base operations + SAS procedural Operations like proc_corr, proc_princomp, proc_survey-select, proc_discrim, proc_glmmod, proc_princomp, proc_reg, etc.
	log_message, etc.	

Step 2: Transformation

- Transforms SAS scripts and migrates schema and dataset to Snowflake
- · End-to-end packaging
 - Transforms core business logic to Snowpark-native wrappers or orchestrators
 - Repackages to production-ready jobs on target
 - Ensures end-to-end execution on the production environment after system integration testing

Accurate and precise transformation of SAS analytical models to Snowflake

- SAS programs → Python programs
- Macros → Python functions
- PROC SQLs → Snowpark
- Functions/PROCS → PySpark/Python common functions in reusable library
- SYMPUT and SYM → Spark constructs
- SAS inbuilt functions → Python inbuilt and custom functions in reusable library

LeapLogic generates production-ready code and validates and optimizes workloads for Snowpark.

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Step 3: Validation

- · Pipeline-based automated validation
- · Data-driven code validation
- Automated SQL/query and data-level validation
- Cell-to-cell validation reports
- · Data type and entity-level matching
- Auto-generation of reconciliation scripts

Step 4: Operationalization

- · Productionization and go-live
- Infrastructure as code
- Execution using Snowflake-native orchestrators
- Automated DevOps, including CI/CD
- · Target environment stabilization
- · Smooth cut-over

Designed for cloud transformation, LeapLogic overcomes legacy limitations to efficiently assess, migrate, validate, and operationalize complex SAS analytics workloads to Snowpark. Fueled by an intelligent grammar engine, it accelerates cloud modernization, unlocking advanced analytics and supporting long-term business goals.

To automate SAS analytics workloads to Snowflake, write to us at info@leaplogic.io

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7

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LeapLogic, an Impetus product, automates the end-to-end transformation of legacy data warehouse, ETL, Bl/reporting, analytics, Mainframe, and Hadoop workloads to native cloud platforms for optimum cost and performance. Impetus Technologies helps enterprises solve the data, Al, and cloud puzzle by combining unmatched cloud and data engineering expertise. Recognized as an AWS Advanced Consulting Partner, Elite Databricks Consulting Partner, and Elite Snowflake Services Partner, Impetus has been the 'Partner of Choice' for several Fortune 500 enterprises for transforming their digital nuclei and driving unmatched innovation and growth for over a decade.

To learn more, visit www.leaplogic.io or write to inquiry@impetus.com