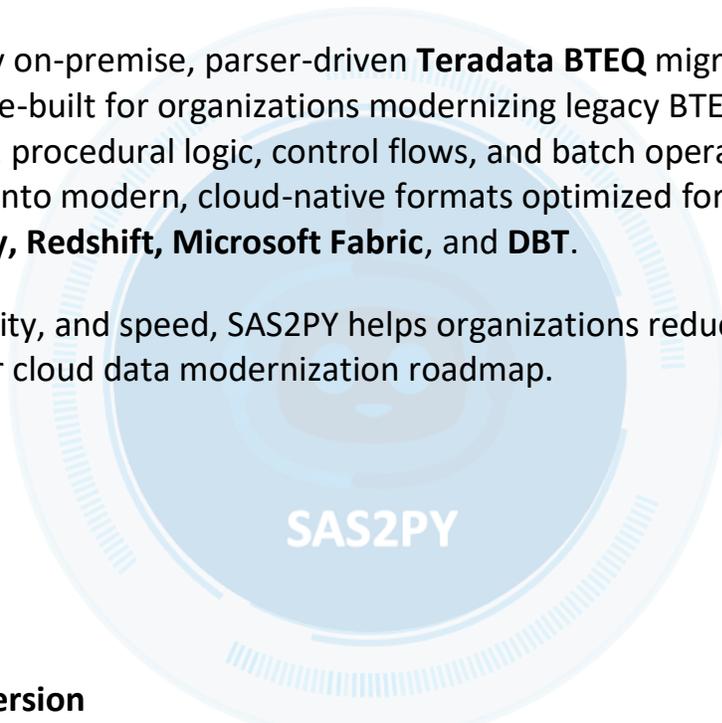


## SAS2PY Platform Overview

SAS2PY is the industry's first fully on-premise, parser-driven **Teradata BTEQ** migration and transformation platform. Purpose-built for organizations modernizing legacy BTEQ environments—including scripts, procedural logic, control flows, and batch operations—SAS2PY transforms these assets into modern, cloud-native formats optimized for **Snowflake, Databricks, BigQuery, Redshift, Microsoft Fabric, and DBT**.

With unmatched accuracy, security, and speed, SAS2PY helps organizations reduce risk, control cost, and accelerate their cloud data modernization roadmap.



## What Makes SAS2PY Different

- **Parser-Driven BTEQ Conversion**  
No AI hallucination—every BTEQ command, block, and flow is parsed, transformed, and fully auditable.
- **Secure On-Premise Deployment**  
Run entirely within your infrastructure (on-prem or VPC). No code or data ever leaves your environment.
- **Full Metadata & Control Logic Preservation**  
BTEQ variable handling, conditional branching, and control structures are intelligently retained and mapped to modern frameworks.
- **Built-In Execution Layer**  
Execute migrated workloads natively in Snowflake, Databricks, and other platforms using visual controls.
- **(Optional) Merlin AI Developer Assistant**  
Real-time AI guidance for debugging and optimizing BTEQ-to-modern transformations.
- **Comprehensive Validation & Matching**  
Validate schema, data, and logic with row-level and partitioned comparisons across platforms.

## End-to-End Teradata BTEQ Migration Process

### 1. Analyze

- Automatically inventories BTEQ scripts, control logic, variable declarations, and macros
- Maps file I/O, schema references, and procedural dependencies
- Assesses complexity and classifies code for targeted transformation

### 2. Convert

- Converts BTEQ components into Python, SQL, and modern formats (DBT, PySpark, Snowpark, etc.)
- Retains operational logic and job sequencing
- Generates clean, production-grade code for cloud platforms

### 3. Validate

- Ensures schema and logic alignment between BTEQ and modern targets
- Performs side-by-side output validation and functional regression tests
- Confirms business rule fidelity and platform compatibility

### 4. Execute

- Enables direct execution in Databricks, Snowflake, and other target systems
- Includes version control, scheduling, and DAG packaging features
- Integrates seamlessly with Airflow, DBT, and Git workflows

### 5. Data Matching

- Verifies row counts, calculated metrics, and record-level integrity
- Performs partitioned checks by date, customer, or region
- Automatically aligns source and target schema mappings

### 6. Document

- Generates detailed, audit-ready documentation for compliance
- Includes data lineage visualization, transformation traceability, and rollback support



- Supports full governance and IT controls

### Automated Schema Mapping

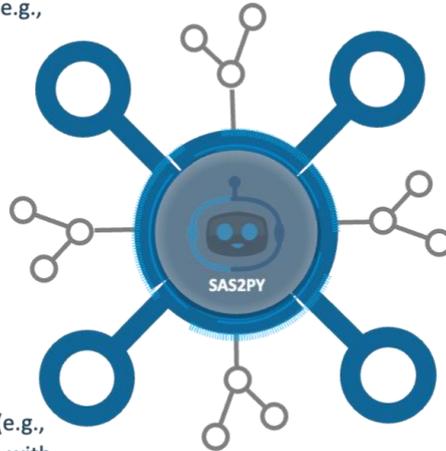
Automatically maps source schemas (e.g., SAS, Oracle, Teradata) to the target system for fast and efficient setup.

### Metadata Comparison

Compares metadata (e.g., table structures, indexes) between the source and target systems to ensure complete structural alignment.

### Data Type Validation

Ensures accurate translation of column types (e.g., numeric, string, date) into formats compatible with the target system, eliminating type mismatches.

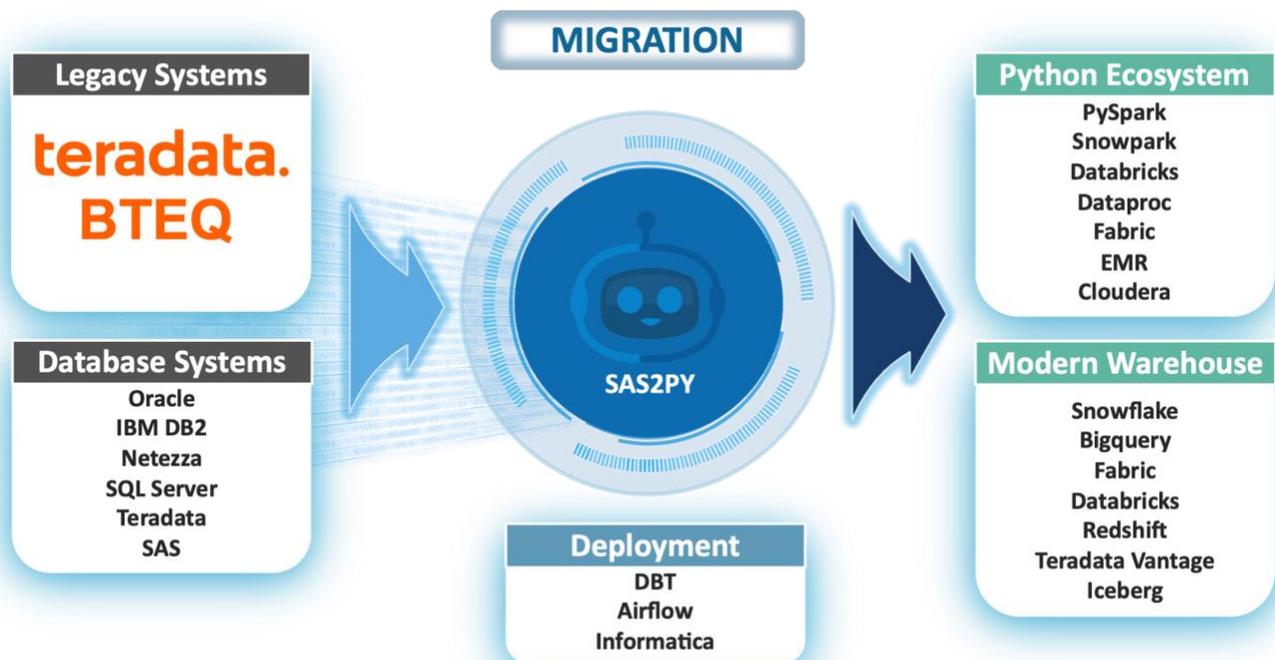


### Metrics Comparison

Validates key metrics (counts, sums, averages, etc.) between source and target systems to confirm data accuracy.

### Partitioned Validation

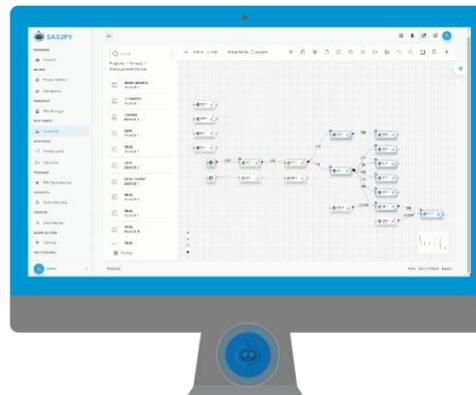
Performs aggregate checks by partitions (e.g., date, region) to ensure data consistency within subsets.



## Code/Data Lineage

**End-to-End Code Lineage:** SAS2PY automatically maps dependencies across all workflows, ensuring **100% traceability** before, during, and after migration.

**Clickable Lineage Exploration:** Users can **click on any dataset, transformation, or script** to immediately view the original code alongside its migrated equivalent.



**Legacy Code Preservation & Full Auditability:** Every **original script** remains **fully viewable, traceable, and auditable**, ensuring **long-term historical reference and compliance validation**.

## Merlin AI – The Developer Assistant (Optional)

Merlin AI is an embedded on-prem GenAI assistant for developers and data engineers working with converted ODI workloads. Fully integrated into the SAS2PY platform, Merlin supports:

- Real-time debugging and transformation assistance
- Auto-rewrite of SQL and Python blocks for optimization
- Error tracebacks, logic flow explanations, and quick fixes
- GenAI-enabled context-aware chat for specific code inquiries
- On-premise optional for security-sensitive environments

## Enterprise-Grade Data Matching & Validation

SAS2PY includes a powerful data validation engine to ensure consistency and trust throughout your migration:

- **Automated Schema Mapping:** Aligns source and target columns and formats
- **Data Type Normalization:** Ensures compatibility across platforms
- **Metadata Comparison:** Verifies structures, indexes, and dependencies



- **Metric Validation:** Confirms row counts, aggregates, and KPI accuracy
- **Partition-Level Checks:** Detects mismatches by date, region, or business slice

## Deployment Options & Infrastructure

- Deploy within your infrastructure or in the cloud – you decide
- Docker-based delivery; compatible with AWS, Azure, GCP, on-prem VMs
- Standard Instances: AWS m5.2xlarge, Azure D8s v3, GCP n2-standard-8
- No data or logic ever leaves your environment

## Licensing & Engagement Options

- **Volume Pricing** Tiered by LoC (lines of code) and platforms migrated
- **Proof of Concept (PoC)** 4-week paid PoC
- **Partner-Friendly** We work with many SI's, technology partners and cloud migration partners

## Take the Next Step in Digital Transformation

SAS2PY is the world's most secure, parser-based **Teradata BTEQ** modernization platform purpose-built for large enterprises in regulated, data-intensive industries. Whether migrating BTEQ scripts, rebuilding procedural workflows, or shifting enterprise data operations to the cloud, SAS2PY accelerates your transformation with unmatched accuracy, security, and control.

Schedule a Demo: [www.sas2py.com](http://www.sas2py.com) | [sales@sas2py.com](mailto:sales@sas2py.com)



Migrate Smarter. Analyze Faster. Transform with SAS2PY.

[www.sas2py.com](http://www.sas2py.com)

[sales@sas2py.com](mailto:sales@sas2py.com)



SAS2PY



Migrate Smarter. Analyze Faster. Transform with SAS2PY.

[www.sas2py.com](http://www.sas2py.com)

[sales@sas2py.com](mailto:sales@sas2py.com)