



Powerful solutions for sourcing and protecting production data for testing and ensuring lower environments are free of regulated data.

BENEFITS

REDUCE DEVELOPMENT COST

Semele creates purpose built, referentially intact data subsets. Reduced data sizes facilitate the creation of smaller more efficient test environments and reduces the overall cost of testing.

REDUCE RISK

Using production data for testing can put sensitive information at risk for insider breaches and external attacks. Semele obfuscates production data in-flight as part of a unified extraction workflow. This process ensures data privacy controls can be maintained while still providing the high-quality data needed for effective testing.

IMPROVE EFFICIENCY

Once rules are specified, data can be recreated at the push of a button. Specifications can be cloned and modified as needed for re-use on future projects.

IMPROVE QUALITY

Data can be transformed to reflect specific test requirements such as date/time windows (e.g. month end processing) and specialized data sets appended to production samplings. Semele's automated test data comparison utility ensures that differences in data sets can be quickly identified and properly analyzed.

ENSURE REGULATORY COMPLIANCE

Semele's audit solution can perform an automated audit of the lower environments to locate sensitive data for remediation. The audit application finds actual personally identifiable information, not look-alike data, ensuring compliance with privacy regulations including HIPAA, HITECH and GDPR.

Semele Data Solutions

DATA SUBSETTING AND OBFUSCATION

Uses a rules-driven requirement engine to simultaneously subset, transform and protect sensitive production data for use in testing.

DATA COMPARISON

An automated test data comparison application that runs expedient comparisons of expected vs. actual results.

DATA DISCOVERY AND AUDIT

Locates sensitive data in the lower environments through Data Discovery and Audit applications.



SEMELE DATA SOLUTIONS AT A GLANCE	SUPPORTED DATA TYPES
✓ Subsetting	✓ IBM DB2
✓ Masking	✓ Hadoop
✓ Obfuscation	✓ Oracle
✓ Data Transformation	✓ SQL Server
✓ Dataset Migration	✓ Sybase
✓ Integrated Extracts	✓ Teradata
✓ Data Comparison (Including Reports)	✓ Vertica
	✓ Delimited Sequential Files

Structured Test Data:	Create structured test data sets from delimited ASCII files.
Subsetting:	Extract a referentially intact data sub-set from a larger (typically production) dataset through a simple GUI interface with no SQL knowledge required.
Metadata Detection:	Automatically map input and output data fields and detect data relationships needed to preserve referential integrity (RI).
Masking:	Obscure selected portions of data elements rendering original data unreadable.
Obfuscation:	Encode, randomize, or otherwise alter selected data elements.
Data Transformation:	Options currently include the ability to generate numeric sequences and variances as well as sculpting of date fields. Generate purely random data or use existing data as your sample set.
Dataset Migration:	Instantiate the test datasets in a location different from the original dataset.
Integrated Extracts:	Data from multiple data sources can be extracted synchronously to ensure application and data relationships are preserved across all data instances.
Data Comparison:	Automate comparison of test datasets – such as expected vs. actually or pre vs. post migration datasets to improve test efficiency.
Data Discovery:	Samples data in database tables and files against known patterns to find potentially sensitive information
Data Audit:	Compares values in the test environment to those in production to locate actual customer data, not look-alike data

Semele is easily implemented. You have the flexibility to license it as a stand-alone product or leverage the power of Semele's technology services team to manage your test data for you.

To learn more, visit semeledata.com.