Informatica Test Data Generation

Create Test Data On Demand to Speed Project Delivery and Control Costs

Benefits

- Improve application testing using accurate, reliable, synthetic test data

- Augment existing test data or create synthetic production data

- Eliminate time-consuming, expensive manual scripting

- Define test sets once and use anywhere

Test data is essential to building and deploying functional applications. When production data doesn't contain the data or tables necessary to support a new feature or function, or when IT policy or privacy regulations restrict the use of production data, developers must create their own test data. However, manually generating test data takes hours of iteration from project teams and DBAs. This can consume 30% or more of the development process and create extensive, expensive software delivery delays—and even so, the test results may not be reliable. When developers create their own test data, usually that data does not test for error conditions or corner cases, resulting in lower quality code.

More Accurate, More Secure Test Data

Informatica® Test Data Generation automates the process of generating synthetic data for application testing by replacing time-consuming and costly manual scripting with realistic, accurate data sets that mirror the intricate nature of a modern database. It can augment test data drawn from existing production data by following its business rules, customizations, anomalies, and associated error conditions. It can also create synthetic production data with test data sets, for more accurate test results while safeguarding the privacy of sensitive production data.

As part of Informatica's integrated Test Data Management solution, Test Data Generation allows users to define test data sets once and use them on a common platform anywhere—on-premise, in the cloud, or outsourced—for more efficient application testing at lower cost.

Increased Reliability From Testing to Delivery

In production environments, applications must continue to function despite data sets that contain latent issues and dependencies. With Informatica Test Data Generation, IT can set multiple relational and conditional rules to rapidly generate large synthetic data sets containing both data errors and inconsistent characteristics to simulate real-life scenarios. Using these data sets, your organization can ensure that:

- Application testing produces reliable results
- Applications function dependably in response to business priorities and requirements
- Organizations can outsource testing and/or development without exposing production data to unauthorized users
- IT delivers needed services and applications on time and under budget

Key Features and Benefits

Generation Rules

Both standard and custom generation rules allow for the creation of highly complex data sets. Users can define custom rules to mimic their database customizations and anomalies, including incomplete records, misspellings, and non-compliant values in addition to picking dataset values, dependent rules, random values, ranges, patterns, and ID generators.

Connectivity and Data Supported

As a part of the Informatica Test Data Management solution and in conjunction with the Informatica Platform, Informatica Test Data Generation can connect to all relational databases, mainframes, applications, and flat files, while supporting all different types of data types.

Support for Business Rules

Data can be generated in tables that have a logical business relationship between columns so that modified dates in any column will always be greater than or equal to the created date of the record.

Support for Related Tables

Informatica Test Data Generation allows data to be generated for a table while preserving foreign key values. Ratios between the parent and the child can be set as a range. For loosely coupled tables where data has already been provisioned, a column can refer to that parent key and allow for nulls to be generated.

Scalability

In combination with the Informatica Platform, millions of records can be generated in matter of minutes and can scale linearly by parallel executing workflows, sessions, or deploying on multiple servers working on a grid architecture

Better Coverage for Testing

Informatica Test Data Generation generates reusable, production-quality synthetic data that mimics real-world data, down to the exception conditions to ensure reliable results.

Shorter Development Cycles

The costly manual process of provisioning test data is eliminated by an automated process that rapidly generates test data sets of any size and within any given parameters. This ensures that developers have the amount and quality of test data they need, when they need it to keep ensure timely application development.

Improved Data Privacy

Data privacy is protected by creating synthetic data sets that mimic production data while not exposing it. These test data sets can be shared with outsourced data testers or uploaded for application testing in the cloud, as safely and easily as when used on-premise.

About Informatica

Informatica Corporation (NASDAQ: INFA) is the world's number one independent provider of data integration software. Organizations around the world rely on Informatica for maximizing return on data to drive their top business imperatives. Worldwide, over 5,000 enterprises depend on Informatica to fully leverage their information assets residing on-premise, in the Cloud and across social networks.

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