CASE STUDY

ETL Automation Testing Solution to Revolutionize Data Validation & Integration

CONTATA

OVERVIEW

The client is a leading legal outsourcing company, offering a range of general legal and Intellectual Property (IP) support services throughout the entire lifecycle.

CHALLENGES

The client wanted to ensure that the data coming into the application from variant sources is validated and follows specific business rules before being saved in the destination database. Additionally, they wanted the imported data to be properly displayed on the application UI with all features functioning correctly. Contata encountered the following challenges during the project:

- Selection of data from diverse sources, including MS Excel, MS Access, and database servers.
- Inadequate test coverage

INDUSTRY
- Legal

SERVICES
- ETL Automation Testing
- Data Validation

TECHNOLOGY
- SQL Database
- MS Excel

- Lengthy test cycles
- Complex and varied business rules for different clients
- Normalization issues in the source database, concerning application requirements.
- Limited time for testing
- Frequent alterations to source data before final import

SOLUTION

Contata implemented ETL (Extract, Transform, Load) automation for testing to verify that the data generated by the client is transformed and loaded into the target as anticipated. The solution unfolded in two phases. In the initial phase, Contata validated data import using SQL scripts and manual testing on the UI. Source database and business rules were analyzed to pinpoint critical issues, saving project resources. During the design phase, Contata created SQL scripts to automate ETL testing, incorporating business rules. Count testing was conducted to verify data completeness, and sample testing was performed to validate data integration with the application.

BENEFITS

- Application released on time and within budget.
- Reduced test cycle by 30% using ETL automation.
- Reusable SQL scripts for future uses.
- Enhanced test coverage in production.
- Increased visibility of the testing infrastructure

About Contata

Contata Solutions is a trusted leader in technology and digital innovation. Through our work in data engineering, data analytics, machine learning, marketing automation and app development, we deliver solutions that address complex problems in ways that are simple, insightful and impactful.

Our promise and value proposition to our customers is simple: we leverage our deep technical expertise and global presence to bring software products and data-driven decision capabilities to life.

Founded in 2000, Contata is a privately-held company headquartered in Minneapolis that serves clients globally from offices in the United States and India.