

# Stabilizing and Transforming a Crucial Data Environment

## Challenge

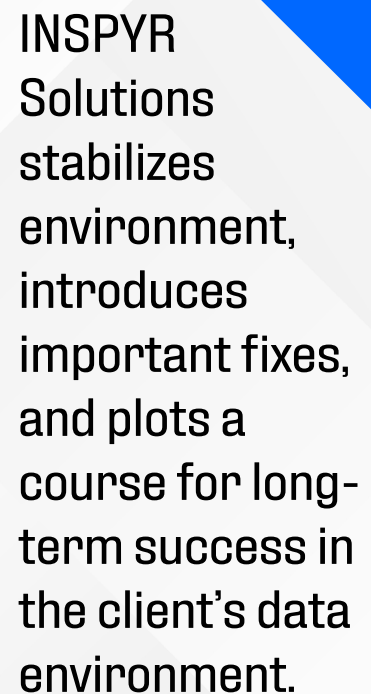
A large company in the training and education industry was experiencing two distinct problems with its data environment and needed urgent assistance. The first problem was that the team had not been able to run sales reports or other critical business analytics in over a month due to problems with the data pipelines. In addition to fixing the most critical issue and getting this vital data flowing again, the client also wanted to create a long-term technology plan.

The company's leaders had attempted to solve these issues via staff augmentation, but soon realized that they needed a partner with more expertise to work on a project of this scale. They turned to INSPYR Solutions for help with this important initiative. The client's challenges included:

- The **data pipelines were broken** and needed repair.
- Important **reports were not running**, so they lacked necessary data for day-to-day business.
- They needed a **strategic roadmap** for future development.
- They wanted guidance on improving **reporting and analytics**.

## Solution

Our technical team examined the client's complex data environment as part of an in-depth assessment of current state. We outlined the desired future state with the client and created a roadmap detailing the steps to reach these objectives. The immediate goal of this tactical phase was to provide a remedy to the most urgent problem and get the client's reports running as soon as possible.

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The team quickly identified the issues preventing the data environment from refreshing and got to work. We fixed the refresh pipelines and stabilized the data environment, enabling the reports so the business could function again. In just a few days, we had the data flowing again and made a few updates to the dashboards so they would be completely functional.

After the tactical phase of the project, the team continued to improve conditions by optimizing systems and outlining future improvements. Once the immediate needs had been addressed, the client was interested in preparing the data environment for the future, so we continued to perform architectural updates to further stabilize and modernize the environment. Our solutions included:

- **Stabilizing** the environment.
- Solving the **data flow** problem.
- Fixing the **dashboards**.
- Performing **architectural updates**.
- **Modernizing** the systems.

## Outcome

The client engaged INSPYR Solutions for a tactical initiative where it was crucial that our team could quickly dive in and provide an immediate solution. In a short time, we solved the initial challenge and gave the client a strategic roadmap and assessment to serve as a guide for taking the company's data and analytics to the next level. This provided the business with new data and insights on which to base important business decisions.

We delivered a fully functional, optimized, and highly resilient data environment that now serves as the foundation for future expansion. Where the data pipelines used to take a very long time to refresh, the client now receives updates processed in mere minutes. We also added enhancements such as validation checks to ensure the accuracy of all data across the various executive and sales dashboards. In addition to these improvements, we set up dynamic pipelines for company mergers to simplify the process of onboarding companies bought by the client.

The solutions we implemented yielded the following results:

- Provided a **strategic roadmap and assessment**.
- **Stabilized** the data environment.
- Fixed the **data pipelines** so they would refresh with new data more quickly than ever before.
- Got the **reports** running again with current data.
- Performed **architectural updates to modernize** the data environment.
- Updated the environment to make it more **resilient**.
- Enhanced the dashboards with new features and metrics for **improved reporting and analytics**.
- Added **validation checks to ensure quality** of data.
- Set up **dynamic pipelines** for mergers.

The INSPYR Solutions team became the outsourced data engineering team

for this client and has continued to work on further refinements of the data environment. Our assessment, roadmap, and ongoing enhancements have positioned the client for long-term success.

## Client Profile

A large company in the training and education industry, the client is known for implementing high standards and utilizing cutting-edge methods. By providing high quality training that meets the standards of the various industries they serve, the organization has a long track record of success working with top companies throughout the U.S.

## Technologies Supported

Azure Data Factory, Azure SQL Database, Power BI, SSRS

## About INSPYR Solutions

Technology is our focus and quality is our commitment. As a leading expert in delivering flexible technology and talent solutions, we strategically align industry and technical expertise with our clients' business objectives and cultural needs. Our tailored offerings include a wide variety of professional services, project solutions, managed services, and talent resources, all bolstered by our strategic partnerships with cutting-edge technology services. By always striving for excellence and focusing on the human aspect of our business, we work seamlessly with our talent and clients to match the right solutions to the right opportunities. Learn more about us at [www.inspyrsolutions.com](http://www.inspyrsolutions.com).