

Case Study

A Leading U.S. Automotive Service Provider

Scaling BI Infrastructure With
Integrated Data Engineering



About the Client

The mobile division of this leading U.S. automotive retailer delivers convenient vehicle maintenance and repair services across the country, bringing trusted automotive care directly to consumers' homes and workplaces. Their operations rely on robust data infrastructure to ensure efficiency, performance visibility, and customer satisfaction.

Project Overview

This leading U.S. automotive retailer's mobile-focused division operates with a robust internal BI environment that supports mobile service logistics, staffing, and performance tracking. Their infrastructure includes SSRS and Power BI dashboards, underpinned by a complex backend of ETLs, data lakes, and reporting databases.

As business demands increased, the team needed to expand their BI capacity, as their bandwidth was maxed out. That's where Distillery stepped in.



Team

One Distillery Data Engineer

Challenges Faced

With more data, more reports, and more systems requiring integration, the client needed hands-on support across their BI pipeline. They were looking for a contributor who could ramp up quickly, own infrastructure pieces, and help maintain the pace of delivery.

Maintaining the BI ecosystem required a wide range of capabilities, including modifying visualizations, handling ETL updates, introducing new data sources into the reporting lake, and adapting reports to keep pace with shifting business requirements like a recent HR system migration.



Solutions Implemented

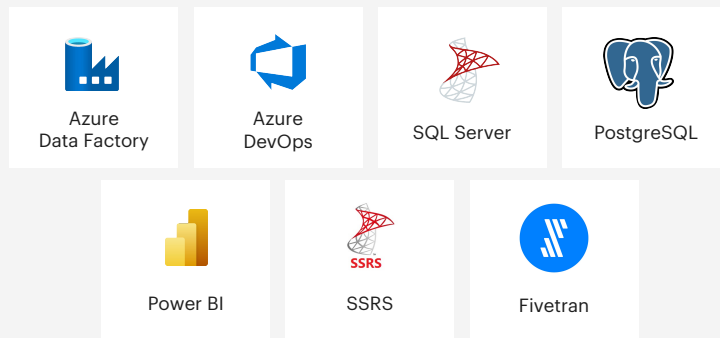
Distillery deployed a senior data engineer who brought immediate value by integrating into the team and picking up critical pieces of the work. With a lean team setup where each data engineer contributes across development, QA, and infrastructure, our resource quickly became essential to the project's stability and progress.

Over the course of two years, he:

- Maintained and enhanced Power BI and SSRS reports
- Managed and modified ETLs using Azure Data Factory, SSIS, and Fivetran
- Migrated data from a PostgreSQL replica of the production environment into a SQL Server-based reporting lake
- Adapted reporting systems and backend workflows during the transition to a new HR platform
- Took on an informal leadership role, mentoring other engineers and guiding infrastructure decisions

His ability to jump in, absorb context, and contribute across technical and operational layers helped the client not just maintain their BI systems, but continue to evolve them without losing momentum.

Technologies



Outcomes Achieved

With Distillery's support, the client scaled their team's capabilities without compromising speed or quality. The collaboration is a clear example of how a single highly-integrated engineer can make outsized contributions, not by overhauling systems, but by embedding deeply, leading quietly, and delivering consistently.





About Distillery

Distillery is a premier nearshore software development firm. At our core, we embed elite AI-enabled senior engineers and agile experts directly into our client's projects, accelerating velocity by at least 40-60%, ultimately helping our clients get digital products to market faster and driving more revenue.

We support essential applications, data systems, mobile apps, websites, and eCommerce platforms through the placement of senior, strategic technical leaders and by deploying fully managed technology teams that work intimately alongside our client's in-house development teams.

At Distillery, we're not here to reinvent nearshore software development, we're on a mission to perfect it.

Awards



Have any questions?

We're happy to answer!

[Learn More](#)

www.distillery.com

[Email Us](#)

reply@distillery.com