

# A multi-billion-dollar technology firm turned to **Adaequare** for migration of a VS COBOL ETL system to T-SQL

## Introduction

An American multinational technology services firm undertook a project to modernize a legacy ETL system written in VS COBOL. The complex modernization involved reverse-engineering the COBOL application, identifying the ETL flow, and optimizing it by converting the sequential processes to batch processes using T-SQL code with MS-SQL as the database. To facilitate this modernization process, the firm partnered with Adaequare, a renowned technology solutions provider known for leveraging automation capabilities.

## Business Challenge

- ✦ A need to eliminate the technical debt by migrating out of VS COBOL
- ✦ A need to replace an expensive and legacy third-party tool which was being used for a critical functionality.
- ✦ A need to replace SQL jobs with Control-M Jobs, for comprehensive workload automation and streamlining job scheduling, monitoring, and execution.

## Technology Stack



## Solution and Highlights:

- Reverse engineered 44,000 lines of VS COBOL code and documented the business requirements.
- Designed the solution compatible with batch processing.
- Re-wrote each step in T-SQL procedures and related functions.
- Implemented configurable sizing of data to tune the performance.
- Documented the design and operation steps in a Run book.



## ● Benefits and Results

- Achieved a significant improvement in the ETL process, reducing the runtime from 24 hours to 8 hours.
- Successfully minimized operating costs by \$300,000 per annum through the elimination of a third-party tool license.
- Ensured the solution's alignment with the client's GCP cloud strategy.

## ● Conclusion

Overall, the team successfully reverse engineered, redesigned, and optimized a large COBOL codebase, resulting in improved ETL performance, cost savings, and alignment with the client's cloud strategy.

