



Technology Advisory Case Study

Industry: Health Insurance

Services: Data Architecture, Data Engineering, Data Integration, Analytics

Technologies: Microsoft SQL Server, C#, .NET, Power BI

Situation

The internal audit team at MarksNelson, a Springline company, is responsible for handling more than 30 different incoming file formats to review compliance. Each format contains varying data points, which complicates the process of maintaining a consistent review. Additionally, due to the team's limited size, there are instances where they can only review the data months after its receipt, resulting in delays in implementing corrective actions.

Solution



To streamline the review process, the team first designed a standardized data model using the data coming in from the various feeds. The team then mapped and transformed raw data feeds into this model through an efficient ingestion process, ensuring all data is accurate and usable by performing thorough error checks and validations. Next, the business rules were centrally applied within data tables, maintaining consistency and integrity across the board. Finally, the team utilized a comprehensive visual dashboard to spotlight transactions that require further review, allowing for quick identification and resolution of potential issues.

Results

The implementation enabled a comprehensive review of each transaction, rather than just a selective test group. Exceptions can be identified, allowing auditors to focus their efforts on investigation rather than detection. In addition, the exceptions can be found as soon as the data is ingested, allowing for timely response to anomalies.

