



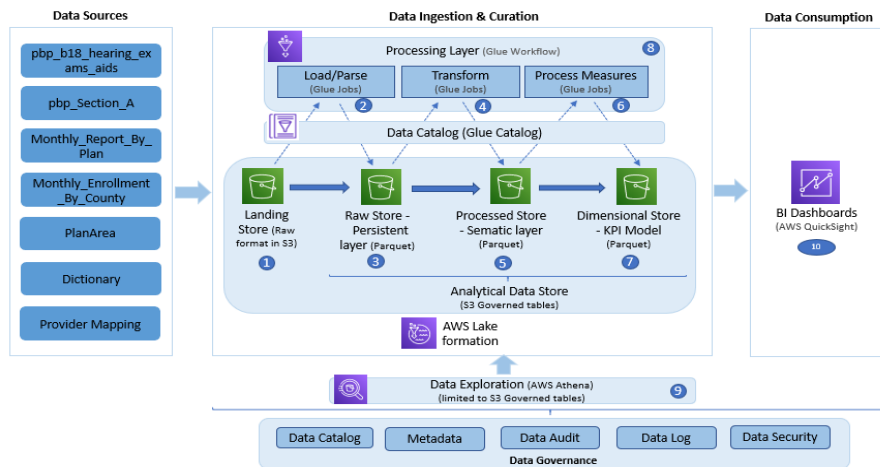
BI Reporting tool for a leading Benefits Management Company



Client Requirements

- Client is a hearing benefits manager that offers Medicare Advantage and commercial solutions for the most under-utilized supplemental benefit: Hearing.
- Client needed to incorporate enterprise business intelligence capabilities to perform product and market analysis on Medicare Advantage Payer and Benefit Data (earlier performed manually) to begin with and extend the capabilities to Medicaid and Commercial Payer data.
- Objectives of HHIP Program Phase 1 for BI included:
 - Establish a foundational data platform for Medicare Advantage market Plan Benefit Package business intelligence wherein organizational and analytics data are processed, modelled, and stored, and which can be expanded as the business grows.
 - Provide interactive dashboard and reporting capabilities for the product, high level competitor information and market insights.

Solution Schematic



CitiusTech Solution

- Designed & Implemented BI Platform on top of **AWS Cloud** with meticulous Layer based **Data Lake** architecture which enables easy scaling for the future BI requirements.
- Built **Python** based **Preprocessing scripts** to standardize files (Encoding, End-of-Line, File type conversion) and handle Header issues.
- Implemented ETL Workflows for MA market data using **Bookmarking, Partitioning** features in **Glue** to seamlessly load Incremental data.
- Built Dashboards in **QuickSight** with enhanced reporting capabilities.
- Orchestrated jobs using **Step Function** service with Notification feature.
- Built **Audit Framework** to capture Data load details.

Value Delivered

- Implemented a **Scalable** platform on top of **AWS Cloud** to enable Client's BI journey.
- Eliminated manual efforts & associated human errors** in building MA market PBP BI reports.
- Cloud based Data Repository & Reporting enabled enhanced **Data Analysis & Collaboration**.
- 60% reduction in the **time required to generate insights**.
- 80% Improved accuracy and efficiency** in decision-making through interactive visualizations.