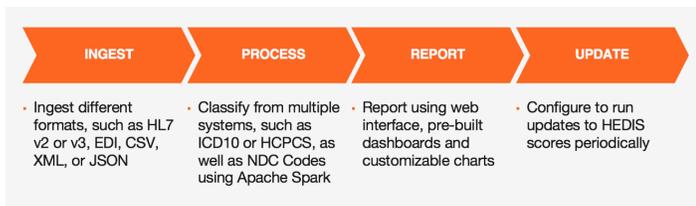**Healthcare Reporting:**

HEDIS® Healthcare Reporting from Cask

The Challenge

The Healthcare Effectiveness Data and Information Set, or HEDIS for short, is a set of standardized performance measures developed by the National Committee for Quality Assurance (NCQA) with the intent to provide direct, objective comparison of the quality of health plans. In order to calculate these measures accurately, health plan providers must ingest, process, store, and analyze the large amounts of patient data they receive. For some organizations, this can be a challenge as the size and velocity of the data quickly outgrows the tools available to them. Compounding the problem is the fact that this data can come from large number of sources and can be in many different formats, such as HL7 v2 or v3, EDI, csv, xml, or json. Developing HEDIS scores is not only people intensive and expensive, but in many cases HEDIS scores are not automatically updated and thus not actionable throughout the year.

INGEST	PROCESS	REPORT	UPDATE
• Ingest different formats, such as HL7 v2 or v3, EDI, CSV, XML, or JSON	• Classify from multiple systems, such as ICD10 or HCPCS, as well as NDC Codes using Apache Spark	• Report using web interface, pre-built dashboards and customizable charts	• Configure to run updates to HEDIS scores periodically

Cask HEDIS Reporting QuickStart Solution

Working with customers and partners in the healthcare industry, Cask has developed the HEDIS Reporting Quickstart Solution powered by Cask Data Application Platform (CDAP) and Cloudera CDH, which enables health plan professionals to perform the tasks necessary to quickly and accurately calculate HEDIS scores. The HEDIS Reporting Quickstart Solution consists of pre-built pipelines, drivers, transformation logic and best practices that constitute the necessary steps to ingest, process, report and update HEDIS measures effortlessly on Hadoop.
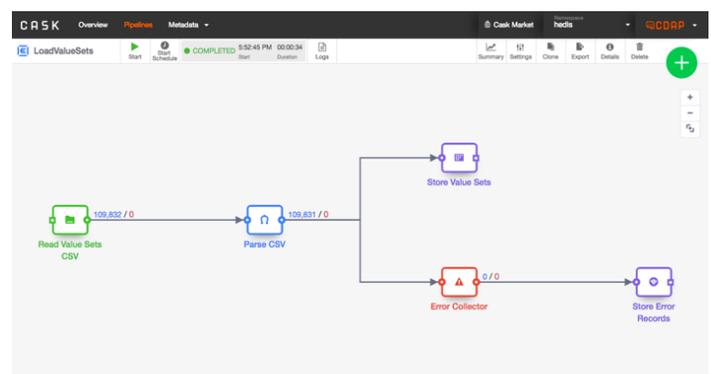

Rapid, Code-Free Data Ingestion
CDAP makes it easy to ingest data files to a single location by providing:

- Code-free data pipelines
- Interactive tools to parse HL7 records, XML data or CSV files, and others
- Simple way to operationalize the parsing process to ingest massive amounts of data, in real-time or batch.
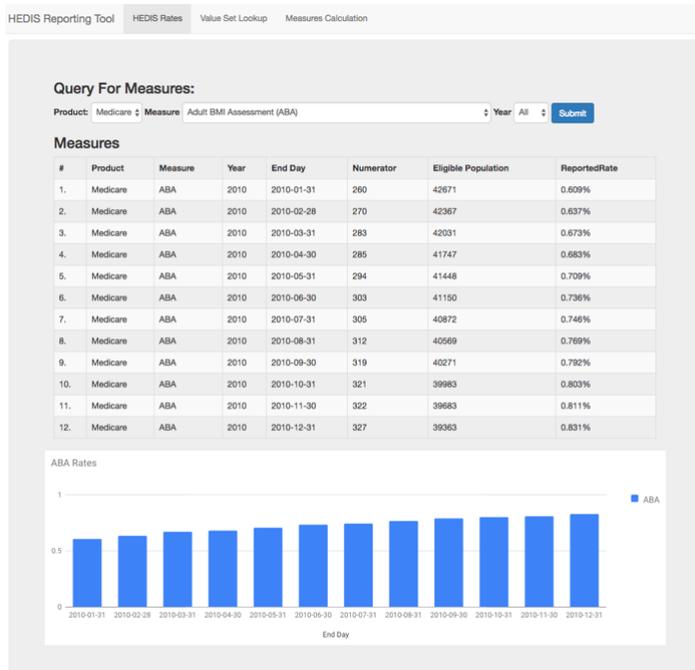
High-Performance Processing
The HEDIS Reporting Quickstart Solution, powered by CDAP, uses Apache Spark for high-performance processing of HEDIS measures while providing a repeatable, standardized process and automatic capture of data provenance.

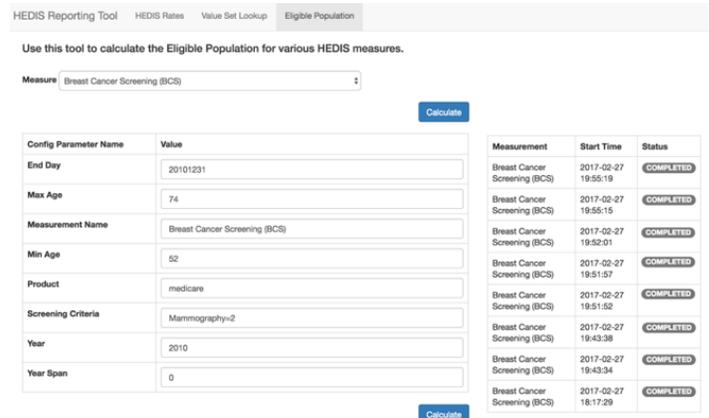The solution is designed to allow healthcare professionals to quickly:

- Classify information using a growing collection of Value Sets containing codes from multiple coding systems, such as ICD10 or HCPCS, as well as prescription medication lists based on NDC Codes

- Process HEDIS measures to generate scores

Reporting Dashboards and Score Updates

The Cask Quickstart Solution for HEDIS Reporting allows customers to query multiple metrics, and to view and search the underlying data. Results can be viewed in:

- A simple web interface to allow exploration of HEDIS measures

- Pre-built reporting dashboards for monitoring performance

- Customizable graphs or charts with drill-down on metrics and underlying raw data

The main reporting page displays the HEDIS scores for each run of the calculation. This can be configured to run monthly, weekly, or nightly, so the healthcare professional can check if the rates are heading in the right direction and take action as needed.

Summary

The Cask Quickstart Solution for HEDIS Reporting, powered by Cask Data Application Platform (CDAP) and Cloudera CDH, makes it easy for health plans to maintain, monitor and take actions to improve their HEDIS scores year-round. This allows health plans to not only focus on improving their HEDIS scores, but also ensures that they can report their HEDIS scores in a timely manner. Additionally, the Cask Quickstart Solution for HEDIS Reporting can be quickly reconfigured to update the HEDIS process with the latest HEDIS reporting requirements as they are rolled out, easing some of the pain associated with modifying health plan processes.

To learn more, please visit the Healthcare Reporting solution page on the Cask website.