

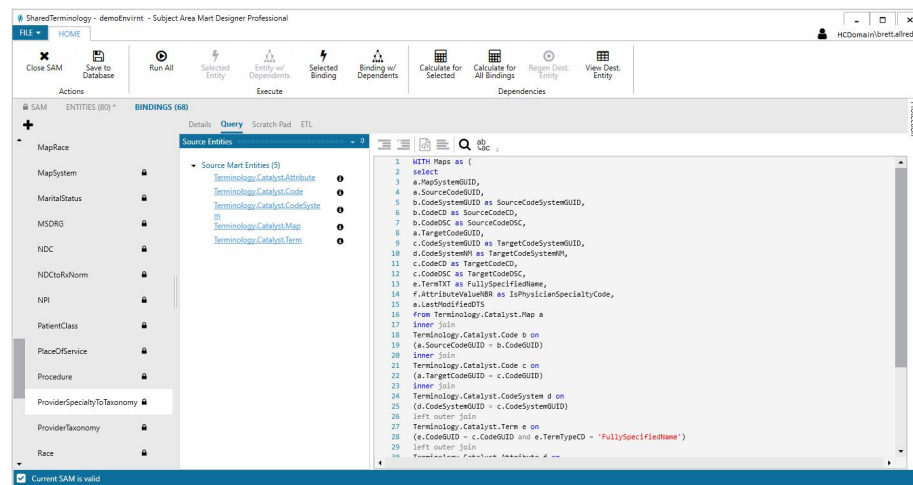
Type
Software Application

Status
Generally Available

Revised
2019-August-01

Technical Description

SAM Designer is a data mart architecting software tool in DOS. It rapidly constructs, deploys, and executes subject area marts in an automated, repeatable way with simple SQL code to organize data from multiple sources for consumption by business intelligence and analytical visualization applications. SAM Designer also integrates machine learning capabilities designed to empower data architects – not just data scientists – to conduct data-science initiatives.



Bindings in SAM Designer enable data aggregation and transformation in a simple, modularized way.

Background

In the past, pulling info out of various source systems to perform calculations was a time-consuming process that required specialized IT knowledge. It could take months to build a subject area mart and get answers to questions.

In addition, as artificial intelligence and machine learning becomes more pervasive in healthcare, more organizations are employing data scientists on their team. These team members don't typically have in-depth data source knowledge to build subject area marts.

Application Overview

Within the Health Catalyst Data Operating System, create and deploy custom data marts that organize, aggregate, and measure data, all in days versus months.

SAM Designer creates the metadata that drives the ETL process. When Health Catalyst's metadata-driven ETL engine loads source system data in DOS, subject area marts created with SAM Designer pull in relevant data and filter anything not needed. Analysts run calculations on that data and create visualizations that reflect the results. SAM Designer's ease of use and small learning curve shift data skills required to more of a business focus than a technology focus, lowering the bar to entry and delivering a faster time to value.

SAM Designer also empowers data analysts and data architects – who already know the most about an organization's data – to leverage machine learning without the constant support of a data scientist. Features built into SAM Designer like R bindings lower the learning barrier and allow data analysts and data scientists to provide the organization insights derived from machine learning very quickly.

Your data analysts, architects, and scientists are freed from data drudgery to operate at the top of their licenses. Instead of taking months to create a subject area mart that must be constantly maintained, users can pull relevant data and filter out what they don't need. SAM designer creates metadata that drives the ETL process. Users accomplish this quickly because development of the script, training, and creation of the model is done previously, so they're just integrating it into existing data pipelines in a common deployment pipeline.

Benefits and Features

- Have more time for analytics when you deliver analytics-friendly data marts in less time with standard built-in ETL protocols – no SQL required.
- Slash time to value with a metadata-driven ETL.
- Scale your analytics by reducing reliance on team members with specialized IT knowledge.
- Gain portability for deployment.
- Promote discovery with an intuitive user interface.
- Standardize the development process.
- Bring the power of machine learning to your analytics with built in statistical packages that enable techniques like regression, classification, clustering and more – no data scientist needed.

Opportunity Insights

SAM Designer provides a simple, visual user experience for creating and deploying Subject Area Marts. Clinicians and data architects actively work together to build a Subject Area Mart, which can often be built in just one day, and the organization starts realizing value immediately.

Intended Users

- Data Architects
- Data Engineers
- Analytics Directors
- Analytics Engineers
- Data Scientists
- Technical Directors

Use Cases

- A **Data Architect** focuses on creating data models, metadata, and data flows within a Health System's EDW. By using SAM Designer, metadata for all her work is automatically created, edited, and managed regardless of the changes made. This saves her a significant amount of time and work allowing her to focus more on other important things like what data is needed and how to model it with other relevant data.
- A **Data Engineer** focuses on acquiring data from various sources that are found in a Health System's ecosystem. By leveraging the DOS Marts created by and utilized in SAM Designer, he can drastically reduce the time it takes to aggregate and transform data from many disparate sources. This opens him up to spend less time mapping and loading sources so that more time may be used to profile the data and ensure high quality of the data being loaded.
- An **Analytics Engineer** prepares data so that it may be easily consumed in reports, applications, and analytic dashboards. Developing with SAM Designer, he can compartmentalize the logic for preparing the data into clear manageable groupings that make maintenance and cross team development more realistic. He is given the flexibility of altering existing data pipelines without the overhead of having to implement and readjust the entire pipeline every time.
- A **Data Scientist** uses machine learning to enable automatic detection of trends, risks, and other insights from healthcare data. By integrating her work with SAM Designer, she gets a common deployment pipeline for her models and existing healthcare data. This drastically simplifies connection, package, and model management enabling her to maintain her work longer, make her deployments more robust, and delegate more to her less technical colleagues granting her more time for analysis and discovery.

- Other:

SAM Designer develops against your EDW utilizing the data already brought in from hundreds of sources utilizing Source Mart Designer.

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