VERADIGM CREATES A HIGHLY EFFICIENT, COST-EFFECTIVE DATA LAKE LEVERAGING SNOWFLAKE

HEALTHCARE & LIFE SCIENCES

veradigm.

COMPANY Veradigm

SNOWFLAKE WORKLOADS USED

COLLABORATION | DATA ENGINEERING | CYBERSECURITY | DATA SCIENCE & ML | APPLICATIONS

DATA WAREHOUSE | DATA LAKE | UNISTORE

Veradigm provides data, insights, and technology to healthcare providers, payers, and life sciences organizations to help improve patient healthcare. Veradigm's expansive offering includes healthcare practice management and electronic health record (EHR) software, risk adjustment and quality management analytics, along with real-world data solutions. Providing stakeholders with actionable data and insights, Veradigm ingests and analyzes large amounts of EHR, disease registry, and claims data.

STORY HIGHLIGHTS:

Multi-cluster shared data architecture with auto-scaling
Snowflake enables enhanced levels of performance at a lower cost for Veradigm.

Fully managed infrastructure and near-zero maintenance
With Snowflake, Veradigm's data team supports additional data-driven use cases without increasing head count.

Snowflake Marketplace
Veradigm publishes data listings to Snowflake Marketplace to enable secure, governed access to data.

> **Snowflake takes the heavy lifting off of technologists and allows them to focus on the data."**
>
> **—BRUCE LUCARELLI,**
> Chief Data Officer, Veradigm

CHALLENGE:

Unifying healthcare data for a single source of truth
Before migrating to Snowflake, there was an opportunity to improve Veradigm's data architecture to support data quality and achieve a unified view across petabytes of data. "We didn't have a solid platform for our data. Data resided in multiple forms across inconsistent technologies, and cleaning, processing, and loading of the data was disparate," Veradigm's Vice President of Development, Sue Davis, said.

In its legacy environment, onboarding one new data source took up to nine months. Data processing issues inhibited the joining of tables that contained medication, laboratory, and other healthcare data. Some tables were so large that Veradigm's data team had to break columns into smaller pieces, which led to additional complexity and time-consuming development work.

Data governance was complicated due to the diversity of Veradigm's data-driven use cases for the healthcare industry. According to Davis, data rights and governance was challenging in this diverse environment.

SOLUTION:

A platform for scalable healthcare insights
Realizing the need for a modern data environment, Veradigm turned to Snowflake.

Veradigm successfully migrated data to Snowflake within two months of kickoff. The entire migration project, which involved re-platforming multiple reporting and downstream processes, took less than one year. "Getting up and running with Snowflake is insanely fast compared with others," Davis said.

75%
Cost savings for life sciences data infrastructure

4x
Reduction in data tables

30%
Time savings for the data team

Snowflake's multi-cluster shared data architecture with automatic scaling of storage and compute solved Veradigm's performance issues at a lower cost. "The savings are there because Snowflake automatically shuts down, and you're only using what you need—when you need it," Veradigm's Chief Data Officer, Bruce Lucarelli, said. Snowflake's fully managed infrastructure and near-zero maintenance helped the team support additional data-driven use cases without increasing head count.

Additionally, the Snowflake Marketplace offered a scalable approach for providing Veradigm's customers secure, governed access to Veradigm's data. According to Davis, "I don't have to worry about the size of our data, extracting, creating, or moving files. That's not an issue anymore. Now that we are on Snowflake, we can allow data sharing to consumers of Veradigm's data without moving it, so it is constantly up to date, with minimal engineering needed to make it available to all parties."

Also, Snowflake's ability to provide a single and seamless experience across multiple public clouds aligned with Veradigm's multi-cloud strategy.

RESULTS:

Lowering costs while processing more healthcare data
Migrating to Snowflake has presented numerous cost savings opportunities for Veradigm. "We were looking at a multimillion-dollar-per-year repository solely for our life science business unit, and reduced the cost by about 75% with Snowflake," Lucarelli said.

Ongoing cost optimizations, such as granular control over the performance needed to meet the business SLA for each independent workload and refining auto-suspend settings, are also easier with Snowflake. For example, Davis helped one group at Veradigm save approximately $430,000 annually. According to Davis, "We dropped their consumption from about $40K per month to less than $4K, and they're getting more than double the amount of data processed."

> **We moved from the previous technology to a more open architecture inside of Snowflake and experienced a cost savings that dramatically improved the business."**
>
> **—BRUCE LUCARELLI,**
> Chief Data Officer, Veradigm

Freeing up technical talent to focus on innovative work
With Snowflake, Veradigm can onboard new data sources in a matter of weeks instead of taking months. Additionally, data loads that previously took up to 12 days now happen within a few hours. Eliminating the need for parent-child tables allows Veradigm to reduce complexity and maintain 4x fewer tables for those with open text columns.

Streamlined data administration helps Veradigm's data team increase productivity without requiring a full-time DBA. "On an average project, we expect to save about 30% of the work compared to our old RDBMS," Lucarelli said.

Leveraging data to improve patients' lives
Architecting on Snowflake puts Veradigm in a better position to support the evolving data needs of its stakeholders. De-identified healthcare analytics from Veradigm help academics perform scholarly research and develop impactful studies, papers, and presentations. Life sciences organizations rely on data from Veradigm for pharmaceutical research and to help understand how medications, therapies, and other factors impact patient journeys. According to Lucarelli, "We're making patients' lives better by being able to look across multiple data sets quicker and faster by having data in one repository (Snowflake) versus having in multiple disparate data sources."

> **The performance optimization was done in a month. We got in, got out, and now it's a big cost savings."**
>
> **—SUE DAVIS,**
> Vice President of Development, Veradigm

FUTURE:

Accelerating machine learning and data sharing
Snowpark will play an important role in Veradigm's upcoming machine learning initiatives. "Snowflake is evolving, and we want to do data science inside the platform," Davis said. Powering data science workloads with Snowflake will reduce Veradigm's reliance on data extracts to third-party data science tools."

Publishing additional data listings to Snowflake Marketplace can help Veradigm create awareness with a broader customer base. According to Lucarelli, "We believe Snowflake Marketplace gives us an opportunity to effectively share and showcase our data to healthcare companies and beyond."

To learn more about Veradigm, visit veradigm.com. To find Veradigm's data on Snowflake Marketplace, search "Veradigm."

ABOUT SNOWFLAKE
Snowflake enables every organization to mobilize their data with Snowflake's Data Cloud. Customers use the Data Cloud to unite siloed data, discover and securely share data, and execute diverse analytic workloads. Wherever data or users live, Snowflake delivers a single data experience that spans multiple clouds and geographies. Thousands of customers across many industries, including 510 of the 2022 Forbes Global 2000 (G2K) as of July 31, 2022, use Snowflake Data Cloud to power their businesses. Learn more at **snowflake.com**

snowflake.com   #MobilizeYourData