

CASE STUDY

Revolutionizing Data Management in Healthcare: Memed Modernizes their Data Architecture with Dremio

At a Glance

The Customer



Challenge

Memed's revolutionary approach generates a vast amount of semistructured and unstructured data, and managing this data became a significant challenge.

Solution

To tackle these challenges, Memed conducted a POC with multiple tools and ultimately chose Dremio for its user-friendly interface, performance, and efficient SQL transformations. Dremio's adoption in the new architecture provided the required structure and speed for Memed's data lake.

Results

- Daily ETL process reduced from 30-40 minutes to 40 seconds; data stack cost reduced by 10%
- Analyst can run full queries in 10 minutes, saving time
- Shifted focus to strategic data work, reducing routine maintenance.
- Eliminated limitations on querying transactional data size

The Customer

Memed is an innovative Brazilian healthtech company transforming doctor and patient interactions through digital prescriptions. Memed integrates with providers and expands the traditional patient journey into a marketplace of drug stores, offering a more seamless and efficient healthcare experience. Not only do they simplify the patient's process, but they also provide valuable business intelligence solutions to all the players in the healthcare ecosystem, making processes better and offering solutions to hospitals, clinics, health insurance, and pharmaceutical companies. Memed's approach even improves the lives of doctors by providing a comprehensive view of all drugs and their clinical interactions.

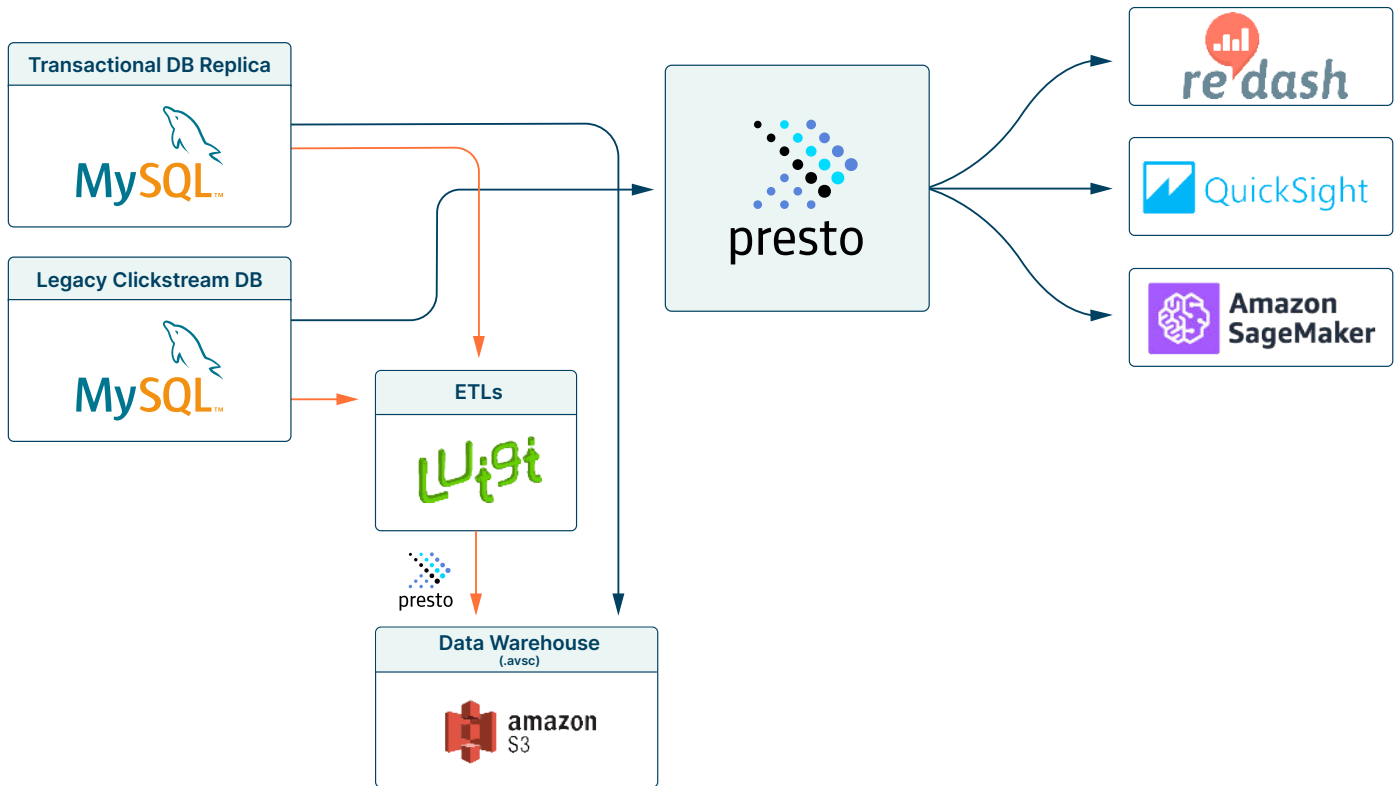
The Challenge

Memed's revolutionary approach generates a vast amount of data, and managing this data became a significant challenge. To manage the growth of semistructured and unstructured data, they built a data lake solution. Their initial data lake was too slow and often unreliable, leading to missing data and frequent Extract, Transform, & Load (ETL) crashes. Instead of a proper, well-structured data lake that could provide a single source of truth, Memed was left with a faulty system that presented metrics in varied ways. Any changes to the architecture were cumbersome and prone to error, inducing collaborators to avoid working on the data lake and instead implementing the transformations straight within the dashboards.

The Solution

Memed, lead by Gabriel Rosario, Head of Data, initially analyzed multiple tools through a series of PoCs to not just overcome these challenges, but also to set up Memed's architecture for future scale and flexibility. With Dremio's ease of use, performance, openness, and ability to enable SQL transformations efficiently and effectively, the Memed team found their ideal partner. The new architecture with Dremio provided both the necessary structure and speed for Memed's data lake.

Original Stack



Dremio's solution enabled quick ETL processes and made use of Reflections, which are essentially materialized views that optimize data on read and are designed to automatically improve performance. It supported the data engineering team in managing complex tasks while allowing the analytics engineers to build the higher-level layers. Additionally, Dremio enabled the materialization of components outside of its environment and offered a single source of truth for all internal users.

Results

The introduction of Dremio into Memed's ecosystem led to significant improvements. They were able to complete a daily ETL process that previously took 30-40 minutes each in just 40 seconds, and the cost of their data stack was reduced by 10%. Even in the middle of a meeting, an analyst is able to run a full set of queries in just 10 minutes, providing all the necessary answers. Without Dremio, these tasks would have taken all day.

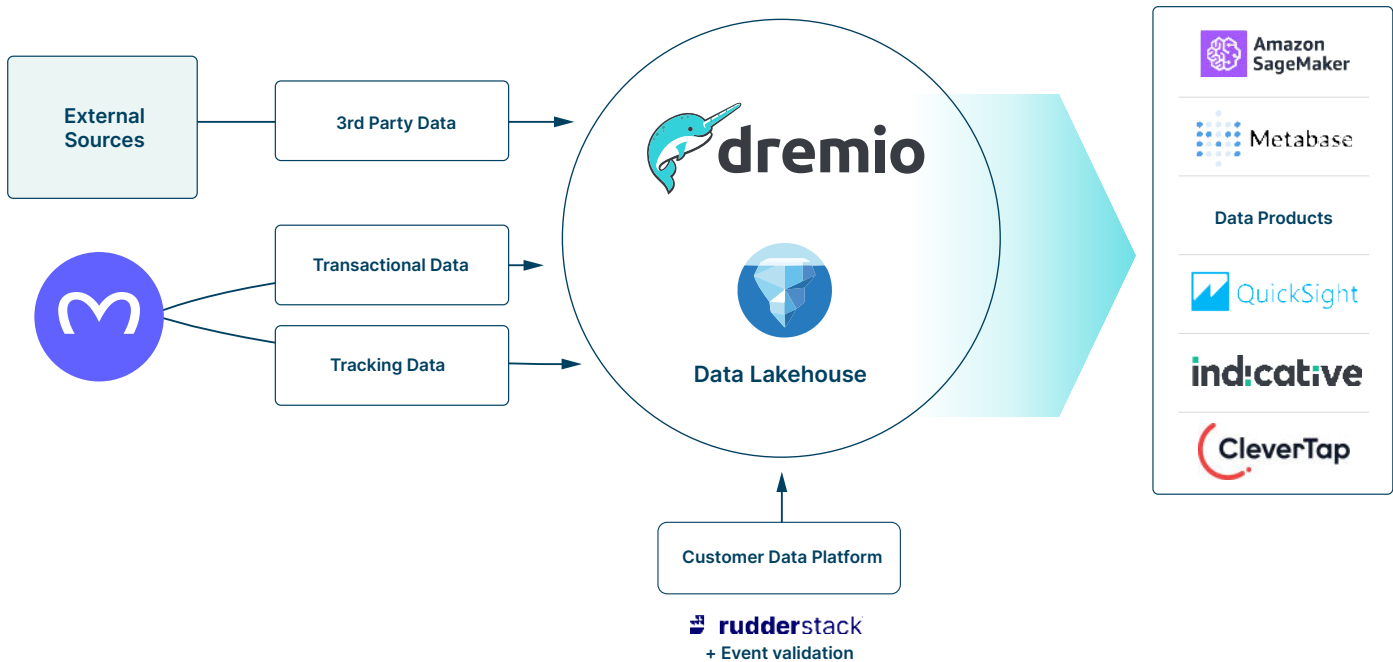
The data team at Memed is more productive because of Dremio. They spend far less time waiting on query results, and they spend almost no time on ETL processes, so they

are able to shift their focus from daily routine maintenance of the data stack to more strategic data work.

With their previous stack, analysts were limited in the amount of transactional data they could query at a time. With Dremio's acceleration and optimization capabilities, analysts were no longer limited in the amount of data they could query.

Dremio also solved the problem of loading data, ensuring that all dashboards were accurately updated and interconnected. And it wasn't just an improvement for their internal users.

"As an integral part of the healthcare ecosystem, we have many external clients, including doctors, patients, hospitals, and drug stores," said Gabriel Rosario, Head of Data at Memed. "These clients rely on the data we collect and deliver to give and receive effective care. With Dremio as our data lakehouse solution, external clients who rely on our dashboards now have access to accurate and timely insights."

Current Stack

Conclusion

Memed's partnership with Dremio revolutionized their approach to data management, creating a more effective, efficient, and reliable system. Their story is a prime example of how the right data management solution can transform a company's operations, drive better

decision-making, and ultimately enhance the value they deliver to their customers. Dremio's role in supporting Memed's mission of better healthcare provision through digital innovation highlights the power of data management in driving business and societal change.

ABOUT DREMIO

[Dremio](#) is the easy and open data lakehouse, providing self-service analytics with data warehouse functionality and data lake flexibility across all of your data. Use Dremio's lightning-fast SQL query service and any other processing engine on the same data. Dremio increases agility with a revolutionary data-as-code approach that enables Git-like data experimentation, version control, and governance. In addition, Dremio eliminates data silos by enabling queries across data lakes, databases, and data warehouses, and by simplifying ingestion into the lakehouse. Dremio's fully managed service helps organizations get started with analytics in minutes, and automatically optimizes data for every workload. As the original creator of Apache Arrow and committed to Arrow and Iceberg's community-driven standards, Dremio is on a mission to reinvent SQL for data lakes and meet customers where they are on their lakehouse journey.

Hundreds of global enterprises like JPMorgan Chase, Microsoft, Regeneron, and Allianz Global Investors use Dremio to deliver self-service analytics on the data lakehouse. Founded in 2015, Dremio is headquartered in Santa Clara. CNBC recognized Dremio as a [Top Startup for the Enterprise](#) and Deloitte named Dremio to its [2022 Technology Fast 500](#). To learn more, follow the company on [GitHub](#), [LinkedIn](#), [Twitter](#), and [Facebook](#), or visit www.dremio.com.

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