jethro

Case Study: Data Realty

Fast, Consistent Performance Across Multiple Query Types

Customers use Data Realty to manage drug costs, healthcare provider reimbursements, and practice margins. To do just that, the company provides best practice analytics over up-to-date data. Data Realty gateways collects data from a diverse spectrum of sources into a Hadoop Hub.

Data Realty Interactive BI applications and data science analytics running over these hubs deliver the business insights. With a multitude of treatment options, their associated costs, and the complexity of clinical data, Data Realty "Insight as a Service" applications are a daily must-have for physicians and administrators alike.

Oncology and Mounting Costs

Within the oncology vertical, drug costs are distinctly the leading expense of a practice. Drug costs account for as much as 85 percent of an oncologist's total costs, and with shrinking margins and complex reimbursement systems, effective management of practice financials is mission critical.

As expenses mount and reimbursements decline, healthcare providers must operate more efficiently, lower their unit costs, and identify ways to optimize the value of their limited resources.

Thankfully, there are often many treatment options available to patients and their doctors. However, due to changing healthcare regulations, reimbursement schedules, and drug pricing, finding the treatment that works for a given patient, both clinically and financially, can be quite a challenge. Two treatment plans may be virtually identical in efficacy, but may differ significantly in reimbursement amount and cost to the patient depending on the healthcare plan.

Data Realty Oncology Business Solutions

Data Realty developed a suite of data analytics applications for physicians. Data Realty applications deliver physicians a more complete view for making personalized optimal treatment decisions from both financial and clinical standpoints.

Practices use the application suite to track the impact of various moving parts on the margin of pharmaceutical care at the most granular level. This new insight allows for decision-making and negotiation as never before.

Oncologists and practice managers routinely use data visualizations via several dashboards updated daily. Practices are now able to view drugs segmented by unit cost, as well as by each healthcare payer. Separate dashboards track drug purchasing and utilization; as well as, monitor potential underpayments.

Practice managers a granular view of the practice's costs paid per drug, as well as reimbursements received once the prescriptions have been delivered to the patient.

The Implementation

The Data Realty team designed the Oncology application on Tableau using moderately sized data extracts. As the applications were rolled out over actual data to numerous users, performance has degraded to unacceptable levels.

After careful examination of available alternatives, the team has picked Jethro Data to accelerate and scale up their solution. Jethro and Tableau's tight integration and cooperative relationship was an important factor on the decision.

Why Jethro?

After considering several BI products, Data Realty's team chose Jethro data as their BI engine, for the following reasons:

1. Fast, consistent performance on all types of queries
2. Minimal impact on co tenant applications on the cluster
3. Scaling for increasing data volumes
4. Scaling for hundreds of concurrent users
5. Efficient incremental loads performance

After a short POC (Proof Of Concept) Jethro was put in production.

The Business Impact

With Jethro, Data Realty can expand its customer base while keeping their cost of service in check. The Healthcare Insight-as-a-Service market server is fast growing and highly competitive. With Jethro's interactive BI solution, Data Realty's offering has performance, scale, and cost competitive advantages.

Data Realty achieved **fast, consistent performance** across multiple query types and **easy scaling** for hundreds of concurrent users.

About Jethro

Delivering Interactive Business Intelligence (BI) over Big Data is our passion and is our forté. Customers rely on Jethro to serve thousands of concurrent users analyzing tens of billions rows of data to support their business decisions. Actionable Business Intelligence mandates response time measured in seconds, up to date data measured in minutes, and data sets that span over 3 or more years of business. JethroData customers enjoy actionable, business critical BI at the scale, scope, and speed of their business.

Jethro is backed by world-class investors, Square Peg Capital and Pitango Venture Capital. To learn more, visit our website or follow us on Twitter @jethrodata.

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Thanks for reading!

Let's chat and find out how you can deliver your users BI at the speed of thought.

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