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Partner



Ask Bigger in Finance with SQream Blue

Data Lakehouse for faster & deeper finance data preparation

Finance services face bottlenecks and limitations when it comes to querying their rapidly-growing datasets.

SQream Blue is an enterprise-level data lakehouse built and optimized for financial big data preparation challenges. The platform enables easy data preparation and workflow management of customers' data directly on the cloud lake for faster ad-hoc analytics and ML modeling. Utilizing a patented GPU-based engine, SQream Blue provides 2x the transformation speed of Parquet/Avro/JSON files in GCP lake environments, at half the cost of traditional cloud-based platforms.

Automate business processes with SQream Blue:

1. Loan eligibility validation - Increasing customer satisfaction - By using automated workflows, banks can automate the entire loan eligibility workflow process. SQream Blue can provide error-proof data preparation at scale, which saves time and resources and improves the accuracy of the ML model.
2. Compliance reporting - With SQream Blue, banks can orchestrate and automate compliance-related workflows and pipelines. Schedule and monitor data processing tasks, and ensure compliance processes run in a smooth and timely manner.

Ready-to-scale for Finance

SQream Blue is the first data lakehouse specifically built for finance data preparation. Financial institutions lead the market when it comes to amounts of data, and the speed requirements for its processing and analysis. Spark-based and in-memory tools provide insufficient time-to-market at challenging costs, and stall or break at the overwhelming amounts of data scale required.

SQream Blue utilizes the power of cloud GPU instances to prepare massive amounts of data at the speed and price efficiency required by banks and regulatory authorities. SQream Blue's transformation layer is built on top of Apache Airflow, providing pre-built DAG processes, tailored for financial data pipelines.

Speed and Cost

SQream Blue utilizes GPU technology to improve the preparation performance of open standard files onto data lakes by over 2x on massive data sets. The speed of integration and transformation reduces costs by 50% and lowers the compute costs required to perform the analytical tasks over your data lake.

Ad-Hoc Exploration

Ad-hoc model tuning for finance data scientists requires a model to be iterated on several times, with new parameters to test accuracy and validity. Usually, these models represent the behavior of users for calculating parameters such as loan eligibility and generating loan agreements. The accuracy of the model increases operational efficiency and reduces errors to save time and resources.

Interactive Queries

Interactive queries for financial analysts require that a static model be uploaded and updated at regular and frequent intervals, with new information on static parameters. Keeping lakehouse tables up-to-date with the most recent data is nearly impossible when using current Presto and Spark-based tools, as they either break or are too slow at multi-terabyte-per-hour level.

SQream Blue utilizes the power of GPU, preparing over 10TB of raw data an hour. With SQream, transformation occurs directly on the data lake, ensuring faster, cheaper implementation. The platform keeps the lakehouse current with the most updated data and ensures queries remain affordable and efficient.

Workflows

Analytical and MLOps workflows play a crucial role in helping finance organizations increase their return on investment (ROI). By automating complex workflows, banks, insurance, and other organizations can gain better control, accuracy, and monitoring of various aspects of loan eligibility, compliance, risk management, advertising, and customer service. The use of workflows helps track performance metrics, identify areas for optimization, and adjust campaigns accordingly.

SQream Blue leverages Apache Airflow to automate complex data workflows, at a multi-terabyte scale. By implementing Airflow as an integral part of the lakehouse, SQream Blue saves financial institutions the costs associated with building, deploying, and maintaining pipelines and frees up time for analysts and data scientists to focus on more critical tasks. Implementing managed workflow capabilities improve productivity for faster data processing and delivery of insights.

Security and privacy

SQream Blue utilizes Google Cloud Platform's flexible and secure cloud infrastructure to ensure the highest level of data security and protection, in keeping with industry and government requirements and best practices. GCP infrastructure follows IT security best practices and adheres to leading compliance standards such as SOC 2 and GDPR.

About SQream

SQream makes it possible to Ask Bigger questions of extremely large and complicated datasets. With no off-limits questions, analysts get unprecedented new insights at exceptional speed. For too long, high costs and complexity have caused big data projects to fail at an alarming rate. To succeed, companies need a shortcut for Asking Bigger data questions to make better decisions. With SQream you can finally "Dig Deeper, Go Faster, and Reach Anywhere" so you're able to Ask those Bigger questions - on-prem or in the cloud. This is why organizations ranging from fast-growth startups to Fortune 100s all rely on SQream. Ask Bigger.™

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