

Data Lake Preparation and Analytics
Powered by GPU

The only platform for which no dataset is too large and no pipeline is too complex

Digital-first businesses face bottlenecks and limitations when it comes to prepare their rapidly growing datasets for analytics and AI/ML.

SQream offers a cloud-native fully-managed data lakehouse built for fast, reliable, and cost-effective data processing utilizing a patented GPU-acceleration engine. The platform enables easy data preparation and transformation from and to the data lake, for faster analytics and AI/ML.

The SQream advantage



Data preparation - Your storage, our engine

Transform raw open-standard data into "analytics-ready" for BI or ML. With a Medallion Architecture the data will never leave your cloud storage, and will be ready for analytics anytime. Orchestrate tasks like denormalization, pre-aggregation, feature generation, enrichment and validation at the speed of the GPU.



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Google Cloud

aws

Solution highlights



GPU processing engine

SQream's performance leans on patented GPU-acceleration, synchronizing all available compute resources for the most complex processing tasks.

SQream uses the GPU to achieve parallel data processing by splitting large tasks into smaller processes, and distributing operations between multiple GPU cores and nodes.



Architecture

SQream doesn't require ingestion or data loading and relies on direct access to data stored in lake storage as open-standard files. Through the entire data preparation cycle, all data remains at the customer's low-cost cloud storage, maintaining privacy and ownership, while preserving a single source of truth and eliminating the need for data duplication.



Connectivity

SQream easily integrates with common open-source workflow management and orchestration tools like Apache Airflow, along with support for industry-standard ODBC, JDBC, and Python connectors.

Moreover, SQream's cluster management has a REST API.



Optimization

SQream's processing engine utilizes Apache Parquet's column-oriented structure and metadata for performance acceleration and optimized data read. Moreover, admins can tailor GPU compute resources (parallelism and concurrency) according to their business and analytical needs.



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About SQream

SQream empowers companies to get value from their data that was unattainable before at an exceptional cost performance. Our data processing and analytics acceleration platform utilizes a patented, GPU-based SQL engine that accelerates the querying of extremely large and complicated datasets. By leveraging SQream's advanced supercomputing capabilities for analytics and machine learning, enterprises can stay ahead of their competitors while reducing costs and improving productivity.