



Case study

Enhancing business intelligence for a logistics company

10X
Improved database performance



15%
Increased productivity



12%
Cost savings



10X
Speedy access to real-time insights



Customer challenges

Time-consuming data preparation tasks

The client's data team spent a lot of time collecting data from the production server to generate reports on business insights. This was a chaotic and complicated process as they had to fetch 10 to 20 data tables out of millions of rows. Oftentimes, this tedious process resulted in issues with data access and security, or ineffective data analysis.

Manual scoring

Performance scoreboards were crucial for them to share with clients as part of service-level agreements. The siloed departmental data and complicated reporting process didn't let them have instant access to the performance score. They had to do follow-ups with different departments, identify progress, and update them manually to a spreadsheet.

Bottlenecks in estimating warehouse performance

They couldn't access real-time, advanced metrics that impact their warehouse performance, which affected effective decision-making.

Metrics that define whether the agreed turnaround time is being met or how many units are picked or packed per hour, actual time vs aggregate time for the inbound or outbound operations, etc.

Our solution

We chose a complete open-source columnar OLAP database which is 10x to 100x faster than regular OLAP and OLTP databases. We designed and employed a custom data engineering framework for them, enabling ETL of the transactional data. This whole data ingestion and processing was fully automated with our ETL accelerator for seamless performance. This gathered real-time data from ERP and other systems and aggregated and stored them in the Clickhouse warehouse which acts as their single source of information.

The data team was able to receive these insights whenever needed without complicated querying or latency issues.

Bottom-line success

We converted their detailed, transactional data from various sources into highly focused metrics which helped in informed and effective decision-making. They receive automated scoreboards of each department like human resources, operations, finance, etc for each of their hubs. A centralized, single-source-of-truth is established for their data to give them a unified view of their warehouses, despite multiple hubs and systems.