SQREAM

How Banks Can Ask Bigger

Modernizing Banks Data Warehouse for Advanced Analytics on Legacy Finance Platforms at an Optimal Cost-Performance Ratio

Technical background

Banks with legacy data systems are limited to asking small questions
Legacy data warehouse architectures in banks are often overloaded because they were not designed to handle the volume and complexity of data generated by modern banking operations. As a result, these systems can become sluggish and prone to errors, which impacts the quality of the data being analyzed and the accuracy of business decisions.

Case study

The pain: decision-makers get their reports a day late!

The organization's current data stack can handle a limited number of daily queries and reports, which take 4-6 hours to generate as part of the EoD process.
The current database infrastructure in this bank is based on Oracle and MSSQL, and their analytics come from SAP crystal reports. The report runtime is about 4-6 hours, so decision-makers didn't see the end-of-day (EOD) reports until the day after it was generated.

"Upgrading the current infrastructure to appliance-based environment will cost hundreds of -thousands of dollars"
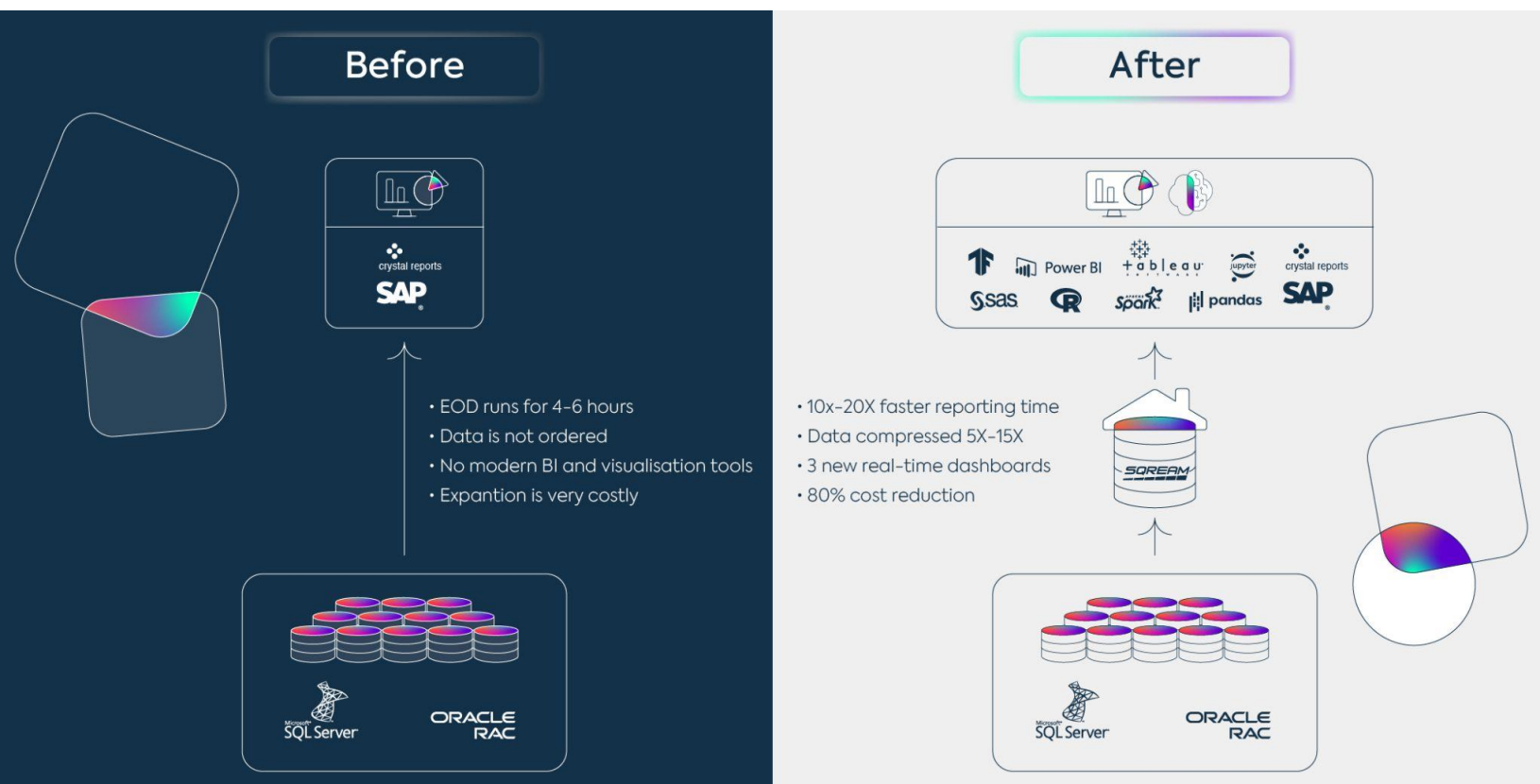
Technical solution:

The team implemented SQreamDB as a data warehouse, utilizing SQream for both compute and storage. SQream integrated with the organizations' existing core systems to ingest over 500 tables into SQream's storage using a standard JDBC ETL. Additionally, SQream's compression managed to reduce file system storage on the existing solution by 5X-10X. The analytical queries currently running on the bank's existing data warehouse were then performed on the SQream platform, running at a rate of up to 15X that of the existing system. SQream also enabled the bank to integrate and use existing but underutilized PowerBI licenses, and created three new decision dashboards.

> "I have never seen such a solution, very fast queries
> and very good compression"

Business value for the customer

- Modernizing the data analytics platform without the need to expand the core systems with additional costly licenses.
- Enabling the bank to integrate new and modern BI and AI/ML tools.
- Reduce strain from existing core systems where analytics is currently running.
- Reduce the run time for existing analytical queries.

Before

- EOD runs for 4-6 hours
- Data is not ordered
- No modern BI and visualisation tools
- Expantion is very costly

After

- 10x-20X faster reporting time
- Data compressed 5X-15X
- 3 new real-time dashboards
- 80% cost reduction

Modernization & Asking Bigger enables banks to increase satisfaction & reduce churn

1. **Reporting:** get better and faster visibility on transactions, customers and everything in between.
2. **Marketing Customer segmentation and personalized marketing:** better understand the customers and segment them based on factors like demographics, spending habits, and risk profiles.
3. **AI preparations:** consolidate all internal and external data sources to prepare for modeling and detect trends and frauds with higher accuracy.

About SQream

SQream makes it possible to ask bigger questions of extremely large, complicated data sets. 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. This is why organizations ranging from fast-growth startups to Fortune 100s all rely on SQream. Ask bigger. For more information go to www.sqream.com .