

Accelerating Data Analytics by 1,000x with Kyligence Enterprise[®]

Case Study

Kyligence recently worked with a global Fortune 500 company, and one of the top property and life insurance companies in China, operating with over \$40 billion in revenue and over 100 million customers. They were using a traditional Cognos[®] implementation to support their reporting and data analysis needs, with petabytes of data and over four-thousand business analysts. In recent years, the enterprise-level Hadoop big data platform has been gradually built, to store and process ever-growing massive amounts of financial data.

Challenges

The company was using over 2,000 Cognos cubes, each with just a few dimensions, and each requiring hours to build. Due to their traditional data warehouse infrastructure and existing Cognos implementation, the performance and depth of their financial analytics was often significantly limited. When their finance department or other business users needed to conduct multidimensional analysis, using the Cognos PowerCubes, they encountered the following issues:

- Poor query performance, especially during high-concurrency
- Inability to analyze high cardinality dimensions
- Poor compatibility with business BI software
- Difficulty maintaining and operating, with complex privilege management
- Thousands of cubes, requiring reports to be stitched together manually and lengthy data-preparation periods

Solution

The enterprise improved their analytics with the augmented data management and analytics platform by Kyligence, solving the pain points that no traditional RDBMS solution could solve.

- Kyligence Enterprise was deployed as the OLAP engine for big data, with powerful technology to replace PowerCubes

Challenges

- Poor performance, especially during high-concurrency
- Lack of support for high cardinality dimensions
- Poor compatibility with popular BI tools
- Lengthy data-preparation periods for 1,000+ cubes

Kyligence Enterprise

- No Size Limits for Cubes
- Hundreds of Dimensions
- Detailed Pushdown Queries
- Hundreds of Metrics
- Granular Access Control
- Scalable Architecture
- No Coding Required

Results

Reduced Complexity

Replaced over 1,000 Cognos PowerCubes with 2 multi-dimension Kyligence cubes.

Accelerated Time-to-Insights

80% of report queries respond in less than one second. 95% of multi-dimensional analysis queries respond in less than 3 seconds.

Reduced IT and Ops Costs

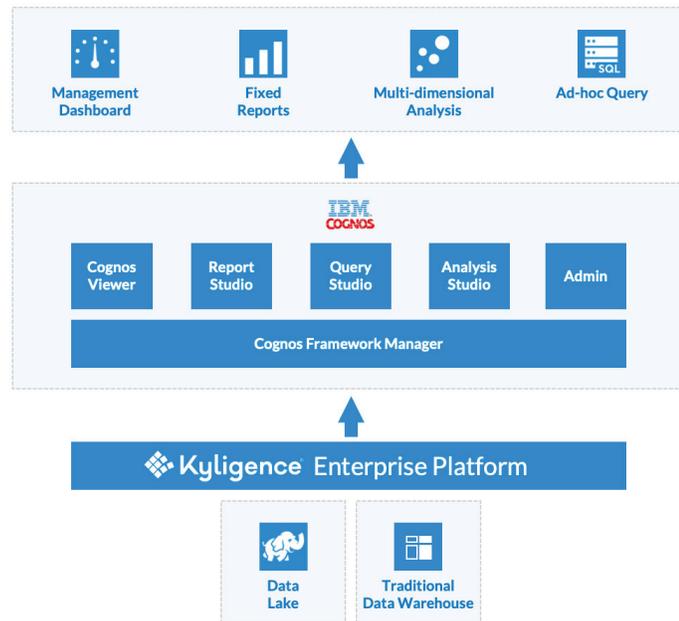
Replaced memory-based Cognos PowerCubes with Hadoop-based OLAP technologies, decreasing resource costs and providing a scale-out architecture.

Enterprise-Level Scalability

Support for high concurrency, allowing thousands of users to complete self-service inquiries and analytics. Significantly improved decision-making and lean management capabilities.

- Kyligence cubes seamlessly integrated with Cognos and other BI tools, via ODBC, for data visualization and reporting
- Kyligence query clusters provided data query services with high availability and high concurrency

The transition and integration with Kyligence was smooth and easy, enabling the enterprise to now utilize the most common BI tools and data systems. Data engineers are now free from time-consuming maintenance and administrative tasks, with only two Kyligence cubes. Analysts can now build cubes with over 60 dimensions, within minutes, and because Kyligence seamlessly integrates with the most popular BI tools, there has been no impact to the front-end.



Next Steps

Schedule a short conversation with a member of our team to learn how Kyligence can address your specific challenges. Visit our website and fill out the request form at <https://kyligence.io>, or send an email to info@kyligence.io.

About Kyligence

Kyligence Inc. is the leading data intelligence company that focuses on big data analytics technology innovation, founded by early contributors to Apache Kylin. Kyligence is a next-generation big data analytics platform, using machine learning to automate both data preparation and insight discovery at massive scale. With extremely high performance for all data analysts and business users, Kyligence is being used by over 1,000 organizations around the globe, with many leading enterprises among them.

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