

Data Warehouse Augmentation for a Large Bank

Large Bank Saves Millions: Introducing Hadoop into your data architecture allows for a richer environment, and the ability to store and process a variety of data to gain new insights without the addition of expensive hardware.

This case study details a project to augment the Enterprise Data Warehouse (EDW) of a large bank using Hadoop.

The Problem

Our client was facing a very large and expensive upgrade cycle, as a large amount of unused data was draining computational resources and taking up space in the EDW. The bank's response was to switch to bigger Teradata appliances, but we were able to find a better solution to upgrade their architecture and revamp their monolithic data warehouse.

The Solution

The solution that was designed and implemented was integrating Hadoop into the bank's existing data environment. All raw data flowed into a Hadoop cluster. The data that was not actively used was moved from the Data Warehouse into Hadoop. At the same time, the scheduled ETL jobs that could be performed in Hadoop were ported over from Teradata. This combination reduced the processing and storage load on the EDW, while also providing the ability store all raw data in Hadoop.

The new architecture delivered great performance on interactive analytics functions, improved the capacity and efficiency of the Enterprise Data Warehouse, and saved the client a significant amount of money.

Benefits for our Client

Integrating Hadoop into the client's Data Warehouse had a profound effect on their business. We were able to:

- Save the client more than \$100 million dollars over five years by avoiding an EDW upgrade
- Allow for new analyses; leading to new insights, since all raw data was saved in Hadoop
- Increase the depth of analytical capabilities. Custom, sophisticated libraries provided enhanced functions in Hadoop that could be used for a variety of purposes

Orzota's Data Warehouse Augmentation Services

If you have an Enterprise Data Warehouse, [Orzota](#) can help improve the efficiency of your data warehouse while bringing in more unstructured data for advanced analytics. For more information about this or other services, contact us at info@orzota.com.