

INFOBRIGHT

EXECUTIVE SUMMARY

In order to gain and maintain competitive advantage, organizations today generate and use much larger amounts of data than ever before. The increasing demands from business intelligence are transforming the service levels IT organizations are expected to deliver. The demands on data access and analysis continue to rise. Infobright provides a complementary solution to existing data bases / data warehouses where less frequently accessed data is off-loaded to Infobright which has full on-line query capabilities which allows organizations;

- More unfettered access to deeper, richer data because it now searchable on-line
- Simplified Data Warehouse operations
- Faster analytic queries
- Reduced IT cost

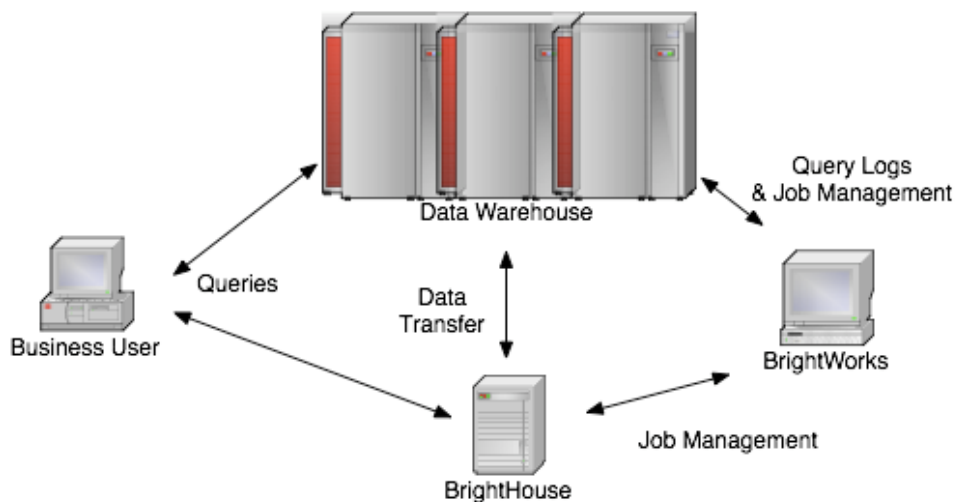
CUSTOMER CHALLENGES

The existing leaders within the database marketplace are not able to fully address the demands of a rapidly changing market;

- Expected benefits of original data warehouse investments are not being realized. Massive data volume and on-line report growth were never anticipated nor were the demands of specific users in key departments who routinely access large historical data volumes looking for trends and answers to complex queries.
- Design limitations of current database technology. Gartner’s lead database analyst said at the Gartner B.I. conference in February 2006, “The laws of physics fundamentally dictate that the disk arm cannot handle the workload of these large data warehouses.”
- Ongoing compliance requirements to both retain information and have it quickly accessible.
- Cost to continually upgrade servers, licenses and disk as well as the time and resources required to implement and maintain these systems is no longer acceptable to organizations.

TECHNOLOGY OVERVIEW

Infobright has developed a software-based data warehouse appliance, BrightHouse. It is uniquely suited to address the large market opportunity emerging as a result of continued and accelerated growth in data needs with which North American organizations face. In addition to BrightHouse, Infobright has developed BrightWorks, an innovative toolset that automatically manages the data off-loading process.



BRIGHTHOUSE

BrightHouse is the revolutionary database that provides a market leading compression ratio of 10:1 (on average) whilst maintaining query capability. Unlike most databases, BrightHouse compresses data column-by-column rather than row-by-row. It uses different compression algorithms for data types by column after analyzing the data during the load process. BrightHouse uses a Knowledge Grid which enables the system to answer queries without always requiring the decompression of data. The Knowledge Grid itself contains intelligence about the compressed data.

BRIGHTHOUSE KNOWLEDGE GRID

- On load, table information is broken into columns and grouped into 64k elements. These groups are compressed individually using the optimal algorithm to create Data Packs. For each Data Pack, statistics are collected and stored as Data Pack Nodes (1:1 Data Pack to Data Pack Node). In addition, other statistics are collected at a column level, or between two or more columns.
- The query optimizer uses the Knowledge Grid to minimize or remove the need to decompress Data Packs. In many cases, the Knowledge Grid has sufficient information to answer the query. Unlike other RDBMS, the BrightHouse optimizer continuously refines the execution plan based upon intermediate results.
- The result: reduce data volumes, apply intelligence, and retrieve faster results

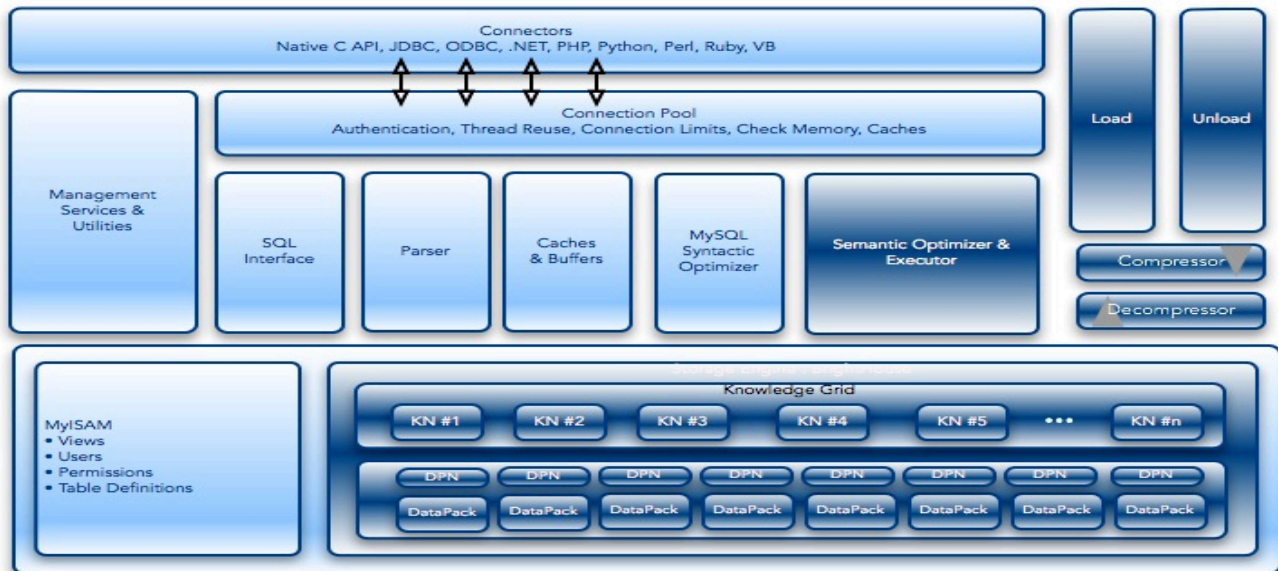


FIGURE 1: BRIGHTHOUSE SYSTEMS ARCHITECTURE AND INTEGRATION WITH MYSQL

BRIGHTWORKS

BrightWorks scans query logs on the primary warehouse and provides an understanding of how the data is actually being used. Data Base Administrators (DBAs) can formulate effective off-loading strategies as job instances on the corporations' scheduling system. BrightWorks make it simple to develop, review, and implement an effective and efficient off-loading strategy.

The off-load analysis and management tools within BrightWorks provide a strong competitive advantage and enable Infobright to be complementary to large data warehouse installations such as Teradata, Oracle, and DB2. Only Infobright is able to address a business' growth demands through a complementary solution that allows the business user to continue to leverage their enterprise data warehouse.

PRODUCT SUMMARY

Software based data warehouse appliance	No proprietary hardware required
Works with your existing data warehouse	Your warehouse investment is preserved and further enhanced
Primary data warehouse performance improved	Transfer of less used data to the secondary warehouse decreases index size on the primary warehouse therefore increasing query performance and lowering CPU overhead
Column based database	Extreme compression routines automatically applied at the column level achieve an average compression ratio of 10:1 (based upon real customer data) - Compression ratios above 30:1 have been achieved
Industry-standard interfaces	ODBC, JDBC, and native connectivity options available through integration with MySQL
Compatibility with existing BI query tools	Existing SQL tools can query BrightHouse directly
No index overhead	Intelligence about your data within the Knowledge Grid can satisfy a query without decompression of data thereby providing improved query speed
Affordability	Low ongoing administration and maintenance costs
Ease of use	BrightHouse synchronizes with your primary data warehouse
Easy implementation	Can be implemented in days with minimal maintenance
Scalability	BrightHouse can scale to support hundreds of TBs (compressed into tens of TBs)
Seamless query	Many BI tools support seamless query directly thus allowing the primary and secondary warehouses to be queried together at the same time