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Hadoop, Big Data And Business Intelligence

Hadoop's latest and greatest feature integrates and works with business intelligence and data warehousing. The tools will be a feature and how the technology behind this techstack works will be the key.

The session demonstration will focus on how Hadoop, the name known for big data, multi-structured data and streamlined analytics is going to complement each other in the world of business intelligence.

Hadoop is ultimately a programming system that helps to deal with a mass of information for the purposes of making the data more accessible to those who use it on a regular basis. People are able to deal with the big data faster and more effectively. There is both a distributed file system and guide within the applications that help the data to become more searchable. A number of large electronic organizations have used Hadoop applications as a way of organizing their information sets.

Tools Required to Accomplish Business Intelligence

Business intelligence depends upon key performance indicators (KPIs) in order to screen and foresee execution of various associations. The KPIs are then related to the operational execution inside of a business intelligence application. It allows a business to see the ranges of influence. When information is being organized without KPIs and BI, the problems involve conflicts of definitions, incorrect data flow, duplication, and problems with productivity.

Data warehousing is another tool to help with business intelligence as the data stores need to be adjusted for the various zones/departments of a business. When the data is too heavily fragmented, it can lead to problems with access as well as cause a burden of synchronization.

Hadoop has gone way beyond the expectation of making it a success. What Hadoop and business intelligence can work on as a team is impressive.

The Impact

The impact of business intelligence and data warehousing is significant.

- Real time information: There is an end to end data lineage that allows organizations to see information from start to finish and get the information for purposes of reports and more. It streamlines data and offers continuous support.

- Business process execution: Operational methodology can be executed more effectively, allowing procedures to be streamlined and for productivity to increase substantially.

- More business intelligence: when there is more BI within the data, there is more efficiency within operations. Microsoft applications are more versatile and this expands the use of BI and makes it more appealing. It allows everyone to access data in a secure fashion from anywhere.

- Front office systems: there are more analytics and data mining taking place within front office systems, allowing data to be accessed faster, providing a higher level of customer service as well as the potential to interact more effectively with customers and increase sales.

The impact will vary based upon the actual tools being used, such as the level of security as well as how strong the data portal is for the purposes of accessing the data and the reporting tools. The framework is going to be responsible for the full impact.

Advantages to Customers

There are countless advantages for customers to use Hadoop for the purposes of business intelligence and data warehousing. One of the most important is that of information quality. It is crucial for businesses to have a higher quality level of information and this is possible through organizing the data and using the various tools. Research has shown that people have a higher opinion of their data and are less likely to say they “don’t have a clue” about their data or that it is awful.

There is also a significant return on investment with business intelligence. The exact amount can vary, though Sarbanes-Oxley has reported that organizations who uncover key dangers and execution markers are able to see a significant impact on their yearly reports, monetarily as well as non-money related.

The data warehouse architecture is more sophisticated than what it was in the 1990s and this allows businesses to not only get at the data that they need, but have the data analyzed for them. What this essentially means is that the data is able to work within the system to produce reports and compare against other data and trends to provide more information to the managers of a business.

What do you do next?

You need to figure out the best way to not only organize data, but find the data you need quickly. Changing relationships can be discovered through a logical structure of the data, which is where data warehousing comes in. business intelligence is also of

the utmost importance to ensure data is analyzed effectively, allowing managers to make more informed decisions because of having what they need in front of them.

A Hadoop database is just what is needed because it utilizes the latest technology to make sense of big data so it is not just a cluster of information that you cannot get at.