Business Intelligence Systems

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The aim of this article is to show the importance of business intelligence and its growing influence. It also shows when the concept of business intelligence was used for the first time and how it evolved over time. The paper discusses the utility of a business intelligence system in any organization and its contribution to daily activities. Furthermore, we highlight the role and the objectives of business intelligence systems inside an organization and the needs to grow the incomes and reduce the costs, to manage the complexity of the business environment and to cut IT costs so that the organization survives in the current competitive climate. The article contains information about architectural principles of a business intelligence system and how such a system can be achieved.

Keywords: *Business Intelligence, Data warehouse, OLAP*

1 The Business Intelligence Concept and its Appearance

The concept of business intelligence became more and more used during the last years, and now, this association of terms is used across different fields from data technology to business modeling.

Business intelligence represents a wide area of applications and technologies for collecting, storing, analyzing and providing access to information for improving businesses process modeling quality. [1]

The business intelligence statement, „getting the right information to the right people at the right time" [2] focuses on the fact that business intelligence uses information and not data due to the included capabilities for processing raw data into intelligent information, that is valid and accepted by the entire company and which can be consistently used in process modeling.

The business intelligence term was introduced by Gartner Group in middle of the 90s. The concept, on the other hand, existed long before being used in mainframe reporting systems.

The Gartner Group defines business intelligence as "an umbrella term that includes the applications, infrastructure and tools, and best practices that enable access to and analysis of information to improve and optimize decisions and performance". [2]

It was due to reporting and analyzing requirements that the need for such systems keeps the same growth rate as technology does.

We can all agree that in the current economic environment, information and its accuracy represent a successful key to any business. Though it's about accomplishing a simple sales report or extracting raw data from a database, analyzing data always provided precious information to company managers.

Over time, the interesting data was provided to persons with decisional role within a company as reports, statistics or analyzing documents. But what happens when the volume of data increases so much that classical storage and reporting systems can't keep up with it?

At the beginning, some decided to archive old data and keep the current data. This solution worked perfectly until it was realized that old data is as good as the new

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