The Implementation of the "Data Warehouse" Architecture, as a Solution for Creating Access to Multi-Dimensional Information in Israeli Business Organizations / Sharon Nadler

Abstract

This academic research deals with the implementations of "Data Warehouse" architecture as a solution for creating access to multi-dimensional data in Israeli business companies.

In the preface of this research an abstract example for the use of "Data Warehouse" as a means to enable access to multi-dimensional data in business companies was given. The purpose of this example was to illustrate the need for a "Data Warehouse" system in business organizations.

In the literary review of this research, the term "Data Warehouse" is explained and the needs it answers are presented. In addition, an explanation is given regarding the approaches for incorporating data systems in the organization, ways to manage the organizational change. Moreover, the term "information management" is explained.

Following the literary review, the methodology chapter is presented. It contains, primarily, the research question – which is the optimal manner to implement "Data Warehouse" architecture as a solution that will allow access to multi-dimensional data in Israeli business companies?

The purpose of this research, the research questions, the research assumptions, the research tools, the reviewed population and the benefit of this research are joined together in this methodology chapter.

In addition, this research contains a finding chapter that includes an overview of the two strategies to be used while working with future users of this system – the "Data Warehouse".

According to the first approach a long and complete company research is needed, and one which must be performed prior to starting the "Data Warehouse" project and should include close everyday work with the users.

In order to present this strategy, a test case of "Bituhit" Company was presented.

The second approach stresses the need for a short inner company research prior to starting the implementation of the "Data Warehouse" project. According to this approach the cooperation with future users should be minimal.

In order to present this strategy, a test case of "Tikshoret" Company was presented.

After surveying these two strategies in the debate chapter, data on both companies was briefly introduced and the advantages and disadvantages of each strategy   was presented.

In the concluding chapter of this research is proposed that the optimal manner of implementing a "Data Warehouse" system in a business organization is that which has been presented in the "Bituhit" Company test case. This optimal strategy includes a long and thorough research that must be performed prior to starting a "Data Warehouse" project, besides close, cooperative everyday work with future users of the system.

This conclusion has been reached due to the fact that the "Data Warehouse" system was better implemented and widely used in "Bituhit" Company rather than in "Tikshoret" Company. More so, after the implementation of this system it will be observed that the "Bituhit" workers utilize the system more often than workers of Tikshoret", even months after the implementation.

This academic research presented an innovated perception of implementation of a "Data Warehouse" system. The aim of the strategy that was suggested as the optimal

one, is to add a new perception that might improve the academic methodology of implementation. The improvement of the methodology of the implementation will eventually lead to an effective usable data system in the organization – the "Data Warehouse" system, which will allow access to multi-dimensional data.

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