

Abstract

Decisions made in companies have the intention of increasing the profitability of the company. These decisions are based on data stored in the company. The amount of data that needs to be processed in companies is becoming increasingly larger. This is constantly increasing due to the use of ERP and CRM systems as well as other external data sources. This large amount of data is stored with the intention of increasing the informative value of the database in order to have an overview of the company figures at all times and to be able to make well-grounded decisions for company management. The prerequisite for this approach is the certainty that the correct figures are available at all times in the business intelligence system used for this purpose.

In order to obtain this security, the quality of the system must be guaranteed. This paper investigates whether the quality assurance measures in OLTP-based software products can be transferred to OLAP-based business intelligence systems.

At the beginning an investigation of the possible structure of a Business Intelligence system takes place. This is followed by an analysis of possible quality assurance measures in OLTP-based software products and a consideration of which of these measures are applicable to business intelligence systems. For all components of a Business Intelligence system possible test cases follow as well as the implementation of a prototypical software test, which tests a part of the ETL process of a real Business Intelligence system. Finally the question is answered whether the quality assurance measures of the classical software development can be applied to Business Intelligence systems.