

ABSTRACT

Business Intelligence (BI) is a system and application functions to convert data within a company or organization (operational data, transactional data, or other data) into a form of knowledge. Telkom Institute of Technology is one institution that is growing, especially in terms of improving the quality of student achievement. Based on the data obtained, in the last 5 years are 16% Students with below average IPK resulting in a lack of graduate student achievement levels. Top Level Management has difficulty in describing the relationship between the GPA of students with perspectives that influence and result in difficult strategic decisions to improve student achievement in IT Telkom GPA. Thus, it takes business intelligence methods that can help the academic in IT Telkom student data processing to generate reporting and analysis that can also produce top-level management ease in evaluating performance of IT Telkom student GPA.

Pentaho is an open source BI and programs as well as providing a platform for building a BI application. Pentaho consists of many computer programs that work together and provide business intelligence solutions.

In business intelligence, IT Telkom student data are fragmentary data processing can be made into a data warehouse. The data warehouse is made will result in reporting student performance data GPA IT Telkom. It also can produce related analytic performance GPA connectedness with the influence perspectives that can assist top level management in evaluating

With the establishment of business intelligence, academic section as admin will be easier in the preparation of reports as well as the top-level management would be easier to accept the report and evaluate student performance IPK IT Telkom. However, in subsequent studies the availability and validity of the data is very important for the data warehouse to be built so that if the required data is not available, the data warehouse can not display the results as required by the user.

Keywords: Business Intelligence, Pentaho, GPA