

ABSTRACT

Livestock feed processing companies have a huge business opportunity to continue to grow in Indonesia. Feed is an important factor for cultivating livestock because the quality and weight of livestock can be determined from the given intake. The Director General of PKH Kementan illustrates that there is an open and growing business opportunity in the livestock feed processing industry sector which is seen from the increase of production reaching 18.37 million tons in 2016. CV Kembar Mekar is a company that provides raw materials and finished goods for livestock feed in Bandung and has Customers in various regions in West Java. Demand for livestock feed increased from a month before entering the big days in Indonesia such as on Idul Fitri and Idul Adha.

The development of business intelligence using Pentaho with business dimensional life cycle method in CV Kembar Mekar is done for integration with enterprise resource planning (ERP) module sales management in the form of business intelligence data mining and dashboard. Development of business intelligence data mining and dashboard can help top level management in monitoring, analysis, and assist in decision making. Business intelligence development includes the extraction, transform, load (ETL) process in the data warehouse of enterprise resource planning (ERP) database PostgreSQL. Star schema is used in determining dimensions and fact tables related to the sales activities of CV Kembar Mekar livestock feed. The data source of the ERP database that has been performed process is shown in the form of business intelligence dashboard in the form of graphs. Business intelligence data mining is used to assist in analyzing the data that has been displayed in the business intelligence dashboard.

Business intelligence development is one way that can be done in supporting the sales process and produce data in the form of reports for companies to monitor, analyze, and help make decisions by top level management. Business intelligence dashboards

from sales activities are visualized with informative charts, so top level management can easily read the displayed data that is tailored to the key performance indicator (KPI).

Keywords: Business Intelligence, Business Dimensional Life Cycle, Data Warehouse, Data Mining, Pentaho Data Integration, Pentaho BI Server.