**ABSTRACT**

Robert Lie/ 44150466 / 2019 / Data Processing System of Sales Transaction by Using Data Warehouse in PT. Makro Global Digital/ Joko Susilo, S.Kom., M.M., M.Kom.

The age grows rapidly, so does the development in technology. One of the developments in technology that we can feel is the improvement of the Internet, especially concerning the technology in data warehousing. Data warehousing is a collection of integrated data; database that is oriented on subject to support the system function of decision-making.

Analysis such as data warehousing, data mining, OLAP, dashboard, and web usage to support the decision is the base of the current sophisticated management. Data warehousing here will be very useful to provide data that can be used to conduct an operational control and to help decision-making.

Research method that is used by the researcher is the quantitative method. The author used the testing method in order to test the precision of the data by using several processes.

The data warehousing that has been formed is processed further to become the database of Online Analytical Processing (OLAP) by using Kettle Pentaho and dimensional model of Star Schema. From the data warehousing that has been formed, we can measure the amount of sales every year based on several dimensions, which are time, category, customers, and products.

The building of the data warehousing of this sales transactions has fulfilled the desire of the customers and can be used to help in overseeing the data of the amount of sales according to products, time, and category.

Keywords: data warehouse, transactions, OLAP, dashboard