## *ABSTRACT*

### *BUILDING DATA WAREHOUSE APPLICATION*

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*PT. KACA PATRI is a growing company in the field of industrial buying and selling various types of glass, which has several branches, and the magnitude of the sale and purchase transactions require the company to be able to regulate the flow of incoming goods and goods out of the central warehouse to each branch or from their each branch warehouse to the consumer. Currently, PT. KACA PATRI has a constraint to control the sale of goods transaction data in detail at each branch by the central warehouse warehouse, so the company is difficult to determine the amount and what kind of products to be ordered to the supplier, in addition to reporting sales from each branch warehouse takes a long time time, because they have to perform data entry prior to print the report.*

*Alpikasi Data Warehouse is built to help the sales of data processing, report generation and sales help PT. KACA PATRI goods analyze sales data from previous periods as well as helping to improve the efficiency of ordering goods to the supplier. This application has the ability to process sales data, analyze and print sales reports within a certain period. In a software development methodology that is used is waterfall methodology. Types and Data Warehouse schema used to build data warehouse data warehouse is a type of functional and snowflake schema, while in the design for the Data Warehouse application is supported by OLAP operations to facilitate sales analysis process.*

*After comparing the goals of software development with the results of testing the system then drawn some conclusions that have built software that can produce information that is accurate enough and easy to use.*



*Keywords:*
*data, data warehouse, OLAP.*