

## **Abstract**

Data warehouse is a historical data storage. Data in data warehouse will be bigger day by day. So, the necessity use of disk space in the future will be a consideration on designing and developing a data warehouse system. Beside that, nowadays, there is a lot of data warehouse sistem in distributed environment was developed in centralized. Because of that, implementation of distributed data warehouse system in distributed environment will be more appropriate.

In this final project, the distributed data warehouse system is implemented by two system models. First, the data on local servers are replicated by global server. Second, global server replicate nothing from local server.

From the results of implementation and system testing, it can be analyzed about the advantages and disadvantages of that two system models. In the case of availability and use of disk space, implementing the second model will be give more advantages than first model.

**Keywords:** Distributed data warehouse, historical data, availability, disk space