ABSTRACT

The needs of the IT system is now become much higher, especially in terms of reliability and availability to support corporate's business continuity. It is important for companies to implement the concept of High Availability (HA) in order to protect the data which is the most important asset of the company. The purpose of this final project is to build disaster-recovery system that is easy to use, inexpensive, comprehensive, effective, efficient, reliable, and ensure the availability of data. The results of this project is a Data Guard system that can be implemented in enterprises, educational institutions, or other institution that use Oracle Database, to protect enterprise’s data from damage, disaster, failure, error, and routine maintenance that causes downtime. The system is expected to guarantee the availability of data for 24 hours per day, 7 days per week. In this system there are two kinds of database, the main database (primary database) and one or more database backup (standby database) which will be used if downtime occurred in the primary database.

Keywords: Oracle database, disaster recovery, Data Guard, primary database, standby database, high availability.