

Abstract

Nowadays, database has been an important matter to corporation. But unfortunately, in every database there must be a possibility of failure to the system and hardware, like disaster. Because of that, corporation needs a fast recovery way if database was damaged cause of disaster. The purpose is to guarantee corporation's operational activity doesn't stop just because failure on database.

There are many backup and recovery strategy for handling disaster. One of them is Standby Database System. Standby database is data duplication of operational database (primary database) on remote server. This database will be updated if the primary database does any transactions with applying archived redo log from primary database constantly. Standby database is ready to substitute primary database when role transition happens in order to minimize downtime and guarantee the availability of database and process of transactions.

This final assignment will analyze and implements about system performance and availability data based on Data Protection Mode. The implementation of standby database will use DataGuard feature on Oracle 10g Release2. Then application will be made to count processing time of DML operation on primary database (*Show Performance*) and see data record gap on both database when role transition happens (*Show Availability Data*).

Keyword : standby database, primary database, data protection mode.