Abstract

Disease diagnostic in medical technology nowadays is getting more advanced. Medical machines usage such as CT, MRI are being important. That is requiring integrated system for storing, searching and medical image management. PACS or Picture Archiving and Communication Systems is a computer system network that dedicated to storage, search, distribution and presentation of medical image. In this Final Project, PACS will be implemented using the PostgreSQL database and compared with PACS with the MySQL database. The test is comparing speed of data query and resilience between PostgreSQL and MySQL. The test result show that PostgreSQL is faster and more reliable compared to MySQL, from 10 times trial MySQL is failed sending to 4 client and PACS web server is down 3 times while PostgreSQL is only failed sending to 1 client, and the web server is never down.