

Abstract

In this information era, the necessity on database as storing device growing faster, the amount of stored data becomes larger. Performance become the main consideration to choose which kin of database to be implemented. With the large amount of data problems will arise if you use a centralized database system. Apart from the type of architecture, database performance also determined by the query that execute.

Therefore, many methods to perform query optimization. In this final task will be implemented using a genetic algorithm with multi-agent architecture for query optimization in homogeneous distributed database system. Case study wich used in this final task is the library database.

Final result obtained from this final task is the performance of query optimization when applied to centralized and distributed database system. With the result of a genetic algorithm can perform better in query optimization on a distributed database system using muti-agent architectureMulti-Agent.

Kata kunci : *database, distributed database, performansi query, evolutionary query, multi-agent, query optimization, response time query, ordering join.*