

Abstract

Fast data searching is becoming a crucial requirement in the development of desktop-based search engine. The science of information retrieval became a solution to this problem. The concept of indexing subsystem in information retrieval allows searching to be quicker. However, the search can become irrelevant if the index on the database is never updated. Therefore, it is necessary that the system is also able to update the index. One method of indexing is the development of B-Tree on the system. B-tree generally grow from the bottom up in accordance with the elements being loaded.

This final task presents the analysis of B-Tree method, analysis of the results of the index is built, and the indexing process performance analysis, index re-updating, and searching based on processing time. In this final task re-analyzed that the updating process becomes more complex, but the search process becomes faster.

Keywords: *information retrieval, indexing, B-Tree*