

Abstract

First step to make a system is designing database, in purpose to determine data that is needed so information that is expected will be resulted. Basically, in each database management system is always found query optimization function. Part of DBMS that run this function generally called as query optimizer, which is a process to select the best evaluation plan from query.

Database designing could be reached by making a model from beginning until the correction is done to get data model that is approach the real condition. In this Final Project, is analyzed some various data models, then implement it in software to result cost query in form of disk access value.

The conclusion of this research is from case study that has similar data and purpose can be designed into several various data models. Performance of query processing is influenced by some factors that are total record, reduction factor and existence of index.

Keywords : Basis Data, Database Management System, query optimizer, evaluation plan, cost query, reduction factor