

## Abstract

Manipulating data is often done when dealing with a database. The emergence of web 2.0 technologies, where the use of data is so large and unstructured, making developers switch to using a non-relational database. This is because relational databases are not efficient in dealing with unstructured data. Along with the use of a non-relational database, developers are often faced with the penggunaan database managed as well as query.

Perform the integration layer query and create a database management system interface is a step that is used in dealing with the problem. The use of mapping queries, parsing, translation, as well as request against the server database is an important point when doing integration on relational database management systems and non-relational. These managed database system able to perform manipulations on a non-relational database using relational query or SQL query.

The implementation of this integration process is able to perform data manipulation using SQL query on a non-relational database, which has been proved by the precision of the output that is generated from the input query given in doing these manipulations. In addition, the process of query execution time in doing parsing and translation spend a quite short time i.e. in units of millisecond.

Keywords: *NoSQL, Integration Database, bigdata, parser, sql parser*