

Abstract

Social Network development on social networking site has been increased rapidly because of its ability on building relationship of everyone in the world. Relationship data of every single person on social network is really large and the relationship structure is complex. Moreover, this data will always be accessed by user and there would be a modification on the data as well, such as addition and deletion. Because of that, there has to be a system for maintaining the data in order to make the data organized, easy to access, and make sure the data integrity is guaranteed. That is a database.

However, the data maintained in conventional database is not reliable enough for extracting information from several relationship data. One of the solution is modeling the data as graph structure. Graph is one of data structure which models relationship between objects from data collection into nodes and edges. Graph database is one of an implementation method from NoSQL (Not Only SQL), which is a database system used to maintain a big data and represents them in form of a graph, so the data will have a high accessibility.

Keywords: *NoSQL, graph database, Non-relational database.*