

Abstract

Reliability of *Online Analytical Processing* (OLAP) on *relational database* in handling a large volume of data. Data cube operations and operation typical of OLAP such as, *roll-up*, *drill-down*, *slice and dice* give a *multidimensional* and *multi-level view* which allows complex analysis in *bussiness intelegence*, appeared many demands that using OLAP on *graph database*.

Graph Database itself has become the current trend because its ability to process data that is both structural and semi-structural compared to relational database that uses recursive join which is causing increasingly complex computing.

Many demands and an excess of *graph database* in modeling dataset that contain structure information. So in this final project, it will apply *graph OLAP framework*. *Graph OLAP framework* will represent *graph database* in the form of *snapshots graph* and some distinctive operations of OLAP which gives *multidimensional* and *multi-level view*

Keywords: *Online Analytical Processing, data, roll-up, drill down, slice and dice, multidimensional, multi-level view, bussiness intelligence, graph database, graph OLAP framework, snapshots*