

Abstract

Model dimensional is a logic representation of a database that is used for Online Analytical Processing (OLAP) in the development of a data warehouse. If the transactional database data is processed to resolve transactional data for each day, the OLAP data processed for the purposes of data analysis.

The process of data analysis called the Data Warehouse with OLAP (On-Line Processing Analytical). Development of an OLAP system is to build a Data Warehouse that can help the management in determining the best decisions for the institution according to the facts that occurred in the institution. Information about these facts derived from transactional data that are loaded into the database multidimensional built for data analysis in OLAP systems.

OLAP systems development requires an appropriate dimensional model according to business processes at hand. Two of the schemes there are multidimensional and the Galaxy Schema and Star Schema. Star Schema Data Warehouse is the scheme commonly used because of its simplicity in structure. Star Schema consists only of a fact and the dimensions of the surrounding. While Galaxy Schema is a modification of the Star Schema, consisting of a collection of facts that are divided by type of facing business processes. At Galaxy scheme, some facts surrounded by the dimensions of sharing dimensions. With this model of development differences, of course, each model has weaknesses and strengths that can be analyzed. Response time and throughput would be consideration in choosing a multidimensional scheme that implemented in the institution to analyze the data.

Keywords : OLAP, Star Schema, Galaxy Schema.