

ABSTRACT

The valuable information from multiple data sources in warehouse database is summarized in form of multidimensional data model, generally implemented in relational database. This research presents a procedure to generate the Dimension, Variable, and Relative Dimension of multidimensional data model used in the Multidimensional On-Line Analytical Processing (MOLAP) concept.

The proposed model is presented in two concepts: (1) Building DVR model of warehouse database, the proposed procedure consists of classification, partitioning, and clustering modules. (2) The DVR data model design using graph model, the proposed design shows how to provide data support intelligence through multidimensional data analysis when there are huge amount of online data. This design also represents a fact scheme that integrates relative information and external sources, as well as extends the algorithms to build DVR patterns of multidimensional data model.

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SINCE 1969