

## **Abstract**

Dimensional modeling is a logic representation of a database which is used for Online Analytical Processing (OLAP) in data warehouse development. The data representation in dimensional modeling itself is easy to be understood and to be navigated because dimensional modeling has a simple and expressive modeling structure.

In general, data processing in operational database references to a logic representation which is Entity Relationship Diagram (ERD). If we look more deep about transaction that happens to an operational database, the logic representation is not always must based on ERD. There are some other logic representation that we can use. Include on it is dimensional modeling that in fact it can be used to solve data processing on operational database. This thing can be a new paradigm that dimensional modeling is not always used on OLAP case eventhough if we compare, the speed of data processing on operational database which based on ERD is faster than dimensional modeling. On implementation, we can look there are some cases which can be solved easier with dimensional modeling but harder with ERD.

**Keywords:** dimensional modeling, operational database, OLAP.