

## ABSTRACT

Although data warehousing and object-relational database are no longer considered as recent technology, very limited work has been reported on object-relational data warehousing. Most data warehouses are built on relational databases. This study attempts to develop a warehouse data model, which could be implemented using an object-relational DBMS.

It has been found out that the object-relational database can support an improved data warehouse that might not be achieved using relational or object-oriented databases.

Object-relational technology is capable of capturing and handling the slowly changing attributes of entities by using complex data structures involving time, which would not be possible using a relational database. Handling slowly changing attributes remains a major issue in data warehousing.

On the other hand, it is possible to eliminate the major drawback of object-oriented databases – the inability to formulate query using the SQL language. Object-relational databases support the SQL3 language, which is similar to the popular SQL92 language, and therefore, the task of formulating queries remains easy.

Despite those advantages, non-standardization of SQL3 language remains one of the major obstacles in commercially implementing the object-relational technology.