

Comparative Analysis of RDBMS and OODBMS: A Case Study

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Abstract

The underlying hypothesis of the case study described in this article is that the development, implementation, operations, and maintenance of large complex data intensive applications such as computer integrated manufacturing can be simplified through the use of object-oriented DBMS. The objective of the case study is to verify this hypothesis.

The approach of the case study is to prototype selected representative components of a computer integrated manufacturing system, which have been developed on top of a relational DBMS, using an object-oriented DBMS.

The results of the study illustrate that the object-oriented prototype has a superior schema, is capable of providing convenient access to information, and is easier to extend and maintain.

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