Abstract

Database is an obligatory part of any modern information system as mostly desktop and web-based applications utilize it for maintaining records in government and private sectors. Typically, Relational Database lead the database market but the evolution of Object-Oriented Database has started to substitute the Relational Database due to prerequisite of modern era’s applications. Object-Oriented Database has several advantages as compare to Relational Database like better flexibility, reliability, reusability, extensibility, redundancy, response time, design & implementation and real-world modeling. Nevertheless, Object-Oriented Database has some limitations, such as, lack of standard query language, security issues, non-availability of basic features, no mathematical foundation and deficiency of qualified programmers & database administrators, due to which Relational Database may not eradicate entirely from database market. Despite some constraints of Object-Oriented Database, its future seems vivid.
Performance based Comparison between RDBMS and OODBMS


Index Terms

Computer Science

Information Sciences

Keywords

Relational Database, Object-Oriented Database, Performance Comparison, Advantages & Disadvantages of OODBMS, limitation of RDBMS