Abstract

Object-Oriented Database started becoming popular because of their very powerful features like persistence, support of transactions, simple querying of bulk data, concurrent access, resilience, security. OODBMS were meant for more complex data handling. The inherent complex nature of OODBMS led towards identification and analysis of integrity constraints. In order to better understand the nature of integrity constraints in OODBMS, 31 constraints are studied in light of RDBMS with examples using Oracle. Based on the study of identified constraints we have proposed Object Oriented Data Model which will form an interface between object oriented DBMS and object oriented Programming Language; here in case java
programming language. The interface has effectively handled various integrity constraints issues available in the existing OOODBMs thereby giving a solution of constraint management at various levels.

References

- Won Kim "Introduction to Object-Oriented Databases", The MIT press 1990.

Index Terms

Computer Science

Keywords
Object Oriented Data Model   Integrity Constraints   Constraint Management