Abstract

This paper presents an implementation of secure database access using agent-based simulation. Database and Database System are an essential component of everyday life in modern society. Daily, most of users encounter several activities that involve some interaction with a Database. In multiuser Database there is no restriction on data access, which meant
everybody could access anyone else’s data because of which malicious destruction or alteration of data can be done. The data stored in the Database need to be protected from unauthorized access and malicious destruction or alteration. In this paper a Agent-Based Simulation program is introduced that includes permission rules for accessing the data and it also includes finding the total number of corrupted data files obtained by applying permission rule to data access so that reliability of the database can be determined using the corrupted data files. This paper aim is to finding the reliability of the database with different types of permission rules.

Reference


Index Terms

Computer Science Database Systems

Key words

Database Agent-Based simulation security
permission rules

reliability of the database