Hiding Sensitive Association Rules on Stars

Abstract

Current technology for association rules hiding mostly applies to data stored in a single transaction table. This work presents a novel algorithm for hiding sensitive association rules in data warehouses. A data warehouse is typically made up of multiple dimension tables and a fact table as in a star schema. Based on the strategies of reducing the confidence of sensitive association rule and without constructing the whole joined table, the proposed algorithm can effectively hide multi-relational association rules. Examples and analyses are given to demonstrate the efficacy of the approach.
Hiding Sensitive Association Rules on Stars

References


Index Terms

Computer Science

Emerging Trends in Technology

Keywords
Association Rule; Privacy Preserving; Hiding; Multi-relational; Data Mining