Abstract

The aim of this research is to discover and analyze the crucial impacts of data mining (DM) on relational database management system (RDBMS) centric business domains. The theme is to clarify the situation of having rich set of data in relational repository with the advancement of storage capacity but no strategic information and knowledge regarding relevant business areas can make the operational and decision making process more difficult and ineffective. And as a result enterprises which are associated with RDBMS can experience loss in their businesses or the specified cause can be one of the crucial factors of losing the competitive advantage in the respective fields. So this research has systematically discovered and analyzed the challenges and level of influences after the implementation of DM on that scenario which is associated with the four factors scalability, high performance, security and flexibility requirements in the respective business environments where RDBMS is acting as the predominating data and information management centre. This research has employed the secondary research and used the qualitative analysis to deduce the concepts and influence levels and significant gain with respect to those factors. As the data mining is still a young field but exploratory in nature so this research has also given the clear identification on the unresolved challenges on this track and recommendation for future works.
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Index Terms

Computer Science

Data Mining

Keywords

Data Mining (DM); Relational Database (RDB); Relational Database Management System (DBMS); Impacts; Influence; Competitive Advantage