Comparative Study and Analysis on Frequent Itemset Generation Algorithms

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 145
Number 2

Year of Publication: 2016

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10.5120/ijca2016910586
{bibtex}2016910586.bib{/bibtex}

Abstract

Association mining aspire to extort frequent patterns, interesting correlations, associations or informal structures between the sets of items in the transaction databases or further data repositories. It plays a essential role in spawning frequent item sets from big transaction databases. The finding of interesting association relationship between business transaction records in various business decision making process such as catalog decision, cross-marketing, and loss-leader analysis. It is also utilized to extort hidden knowledge from big datasets. The Association Rule Mining algorithms such as Apriori, FP-Growth needs repeated scans over the whole database. All the input/output overheads that are being generated through repeated scanning the whole database reduce the performance of CPU, memory and I/O overheads. In this paper we have equaled many classical Association Rule Mining algorithms and topical algorithms.

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Index Terms
Computer Science
Algorithms

Keywords
Data Mining, Association Rule Mining (ARM), Association rules, Apriori algorithm, Frequent pattern.