Abstract

Data Mining techniques are helpful to uncover the hidden predictive patterns from large masses of data. Frequent item set mining also called Market Basket Analysis is one of the most famous and widely used data mining techniques for finding most recurrent itemsets in large sized transactional databases. Many methods are devised by researchers in this field to carry out this task, some of these are Apriori, Partitioning approach and Interval Intersection etc. In this paper, a new approach is being proposed to find the frequent item sets using Interval Intersection and Apriori Algorithm, which produces results in parallel on several partitions of dataset. For representing the item sets, interval sets are used and for calculating the support count, interval intersection operation is used. The experimental results indicate that the proposed approach is accurate and produces results faster than Apriori Algorithm.

References

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Large Databases”. ACM SIGMOD Conference. Washington DC, USA, 2013.

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Index Terms

Computer Science Information Sciences

Keywords

Frequent Item set mining, A-priori, Partition Algorithm, Interval Intersection, Support count.