Abstract

Association analysis is utilized to detect the learning and set up tenets from a huge dataset. The minimum support value in the association investigation is a discriminating element to influence the execution of this detection. Association rule mining represent to a data mining method and its objective is to discover intriguing association or correlation relationships among a huge set of data elements. In this paper new algorithm has been proposed which to collecting the (Sample Association Rules) taken from (Basic Apriori Algorithm) with the (Multiple Minimum Support utilizing Maximum Constraints Algorithms). The algorithm is executed, and is compared with its other algorithms, using a new proposed comparison algorithm. Comparisons have been on various groups of data. Consequences of applying the proposed algorithm indicate speedier implementation than different algorithms. At the end, both of execution and results shows: Effortlessness, exactness, and velocity to new algorithm, as well as reliability of the another algorithms.

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**Index Terms**

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**Keywords**

Rule Mining, A priori Algorithm, Knowledge discovery, Minimum Support.