

## MAP REDUCE BASED ECLAT ALGORITHM FOR ASSOCIATION RULE MINING IN DATAMINING: MR\_ECLAT

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## ABSTRACT

This Data mining is the process of extracting useful information from the huge amount of data stored in the databases. Data mining tools and techniques help to predict business trends those can occur in near future. The goal of the paper is to experimentally evaluate association rule mining approaches in the context of vertical database partitioning This paper introduces a new MapReduce based association rule miner for extracting strong rules from large datasets. Due to rapid growth of data, large scale data processing is becoming a focal point of information technique. To deal with this advancement in data collection and storage technologies, designing and implementing large-scale parallel algorithm for Data mining is gaining more interest. We design Association Rule based parallel data mining algorithm which deals with Hadoop. An association rule mining helps in finding hidden relation between the items or item sets in the given data. The association rules are developed on the basis of the frequent item set generated from the data. The frequent item set are generated following the ECLAT algorithm. As the input data and number of distinct items in the data set is large, lots of space and memory is required in traditional system, so in the modified Eclat Hadoop is used, as Hadoop provide parallel, scalable, robust framework in the distributed environment.

**KEYWORDS:** Association Rule, Data Mining, Eclat, MapReduce, Parallel