

## **Abstract**

Association rule learning is a popular and wellresearched method for discovering interesting relations betweenvariables in large databases. For that all the frequent items of the database need to be found out. Two approaches are used widely to find the frequent itemsets. First one is with candidate generation which requires large number of scans of the whole database system which is time consuming. The second one is without candidate generation which requires less no. of scans and it builds an intermediate data structure to find the itemsets. Though this approach is time efficient but to store the data structure this approach depends upon the physical memory of system which becomes a bottleneck for the approach. So, it is necessary to develop new methods that do not fully rely on physical memory; new methods that utilize the secondary storage in the mining process should be the target. So, this paper aims to develop an efficient method utilizing the secondary memory of the machine to support these data structures to overcome the hurdle of limited physical memory.