Positive and negative rule mining produced rules giving importance to both frequent and infrequent itemsets so that none of the important rules which are practically possible are omitted. Positive and negative rule mining employs a pruning strategy whereas the conventional approach does not. The performance of both these approaches is compared in fig6 as follows:

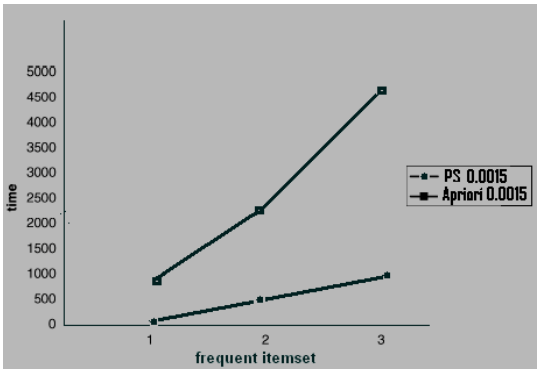

Fig.6. Performance comparison of PS(Pruning Strategy) and Apriori

9. Conclusion and future enhancements

This paper gave an overview of the various techniques that may be applied on an encoded temporal database. Each of the algorithms of the Apriori family had a different impact and produced effective results. The effect of Apriori and anti-Apriori algorithms on a temporal data base which has been encoded by an encoding method has more openings to provide advantageous results in terms of lower complexities of time and space. Weighted temporal mining which prioritizes the items had a better performance than the conventional approaches. Fuzzy mining had the advantage of producing rules in a more understandable manner. Applying the algorithm with pruning strategy to identify all itemsets of interest both frequent and infrequent has better efficiency than the Apriori-like algorithm which does the same with no pruning strategy.

Future developments may involve overcoming the problems involved in deciding what the threshold values of support and confidence should be. This problem may be overcome by using adjusted difference analysis to identify interesting associations among attributes, which does not require any user supplied thresholds. Also weights could be assigned automatically to prioritize the items so that human intervention can be minimized and starvation could be avoided.

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