Mining association rules at multiple levels helps in finding more specific and relevant knowledge. While computing the number of frequency of an item we need to scan the given database many times. So we used counting inference approach for finding frequent itemsets at each concept levels which reduce the number of scan. In this paper, we purpose a new algorithm LWFT which follow the top-down progressive deepening method and it is based on existing algorithms for finding multiple level association rules. This algorithm is efficient for finding frequent itemsets from large databases.

Reference

- Jiawei Han, Micheline Kamber “Data Mining Concepts and Techniques” Harcourt India Private Limited ISBN:81-7867-023-2, 2001.
- Jiawei Han and Yongjian Fu., “Discovery of Multiple-Level Association Rules from Large Databases”. Proceeding in IEEE Trans. on Knowledge and Data Eng. Vol. 11 No. 5, pp 798-804, 1999.
- Jiawei Han and Yongjian Fu, “Discovery of Multiple-Level Association Rules from Large Databases”. Proceedings of the 21st VLDB Conference Zurich, Switzerland, 1995.
- Yves Bastide, Rafik Taouil, Nicolas Pasquier, Gerd Stumme and Lotfi Lakhal, “Mining Frequent Patterns with Counting Inference”. In proceeding of ACM SIGKDD, December 2000, pp68-75.

**Index Terms**

Computer Science  
Data Mining

**Key words**

Multiple-Level Association Rules  
Counting inference approach

Level wise filtered tables  
Data mining  
non-uniform support  
Confidence