SRI KRISHNA INSTITUTE OF TECHNOLOGY

Bangalore

Department of Computer Science & Engineering

Subject: Data Mining and Data Warehousing Sub Code: 18CS641

Assignment - 3

1. What is association analysis? Define support and confidence with an example.

2. Develop the aprior algorithm for frequent itemset generation, with an example.

3. Explain the various measure of evaluating association patterns.

4. Explain in detail frequent itemset generation and rule generation with reference to apriori along with an example.

6. Explain FP growth algorithm for discovering frequent item sets. What are its limitation.

7. Illustrate the limitations of support confidence framework for evaluation of an association rule

8. Which are the factors affecting the computational complexity of appriori algorithm? Explain them.

9. Define a frequent pattern tree. Discuss the method of computing a FP-Tree, with an algorithm.

10. A database has five transactions. Let min-sup = 60% and min-conf = 80%

TID	ITEM
T1	{M, O, N, K, E, Y}
T2	{D, O, N, K, E, Y}
T3	{M, A, K, E}
T4	{M, U, C, K, Y}
T5	{C, O, O, K, I, E}

Find all frequent item sets using aprior and FP growth respectively,

11. Explain various alternative methods for generating frequent item sets.

Note: All Problems assigned before(Aprior and Fp growth)