Problem Statement VI

1. Test Drive ACLOSE algorithm to mine closed frequent patterns on a sample dataset of your choice. Test the same on a FIMI benchmark dataset which you have used for Apriori/FP-growth implementations.

2. Test Drive Pincer search to mine maximal frequent patterns on a sample dataset of your choice. Test the same on a FIMI benchmark dataset which you have used for Apriori/FP-growth implementations.

3. Implement any one CFI or MFI algorithm not discussed in the class and test it on the same FIMI workshop dataset and make a time comparison between the performance of Apriori, FP-growth, A close, Pincer Search and the last algorithm(the one you have implemented apart from classroom discussions) for varying support sizes over a benchmark dataset.

3. Implement the Decision Tree model on the dataset we have discussed in the class and also test the same on a benchmark dataset (preferably binary classification dataset). Also explore if there are any packages to display the decision tree.

Optional:

Explore and implement other measures apart from support and confidence measure that are used for rule mining evaluation such as lift, leverage, conviction.