ASSIGNMENT 3

SET 1

1. What are the advantages of BRICH compared to other clustering method?
2. Consider the transaction database given below. Set minimum suppor count as 2 and minimum confidence threshold as 70%.

Transaction ID	List of Item_Ids
T100	I1,I2,I5
T200	I2,I4
T300	I2,I3
T400	I1,I2,I4
T500	I1,I3
T600	I2,I3
T700	I1,I3
T800	I1,I2,I3,I5
T900	I1,I2,I3

a) Find the frequent item set using FP Growth Algorithm.

b) Generate strong association rules

SET 2

1. Explain frequent subgraph mining using Apriori method.
2. Consider the transaction database given below. Set minimum support count as 2 and minimum confidence threshold as 70%.

Transaction ID	List of Item_Ids
T100	I1,I2,I5
T200	I2,I4
T300	I2,I3
T400	I1,I2,I4
T500	I1,I3
T600	I2,I3
T700	I1,I3
T800	I1,I2,I3,I5
T900	I1,I2,I3

a) Find the frequent itemset using Apriori Algorithm.

b) Generate strong association rules

SET 3

1. Explain the application of Naive Bayes Classifier in web content mining.
2. A database has five transactions. Let min sup=60% and min confidence=50%.

Tid	Items_bought
T1000	T1000 {M,O,N,K,E,Y}
T2000	T2000 {D,O,N,K,E,Y}
T3000	T3000 {M,A,K,E}
T4000	T4000 {M,U,C,K,Y}
T5000	T5000 {C,O,O,K,I,E}

a .Find all frequent patterns using FP-growth algorithm.

b .Find all strong association rules for the above table.