

Assignment 1:

Q1)Use the below transactional dataset with support threshold s=2 and confidence threshold c=60% to do the following: (3 marks)

TID	Items
T1	HotDogs, Buns, Ketchup
T2	HotDogs, Buns
T3	HotDogs, Coke, Chips
T4	Chips, Coke
T5	Chips, Ketchup
T6	HotDogs, Coke, Chips

Pass (k)	Candidate k-itemsets and their support	Frequent k-itemsets	
k=1			
k=2			
K=3			

A)Use the Apriori algorithm to show the candidates and frequent itemsets for each database scan

B) Based on the above frequent pattern , give example for three association rule? and what support and confidence for each rule?

Q2) Construct of the FP tree. for the following transactional DB.(Hence, min_support = 2.) (2 marks)

Transaction ID	List of items in the transaction
T1	B , A , T
T2	A, C
Т3	A,S
T4	B,A,C
T5	B,S
T6	A,S
T7	B,S
Т8	B,A,S,T
T9	B,A,S







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