

COMP9318 Tutorial 4: Association Rule Mining

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Q1 I

Show that if $A \rightarrow B$ does not meet the minconf constraint, $A \rightarrow BC$ does not either.

Q2 I

Given the following transactional database

1	C, B, H
2	B, F, S
3	A, F, G
4	C, B, H
5	B, F, G
6	B, E, O

1. We want to mine all the frequent itemsets in the data using the Apriori algorithm. Assume the minimum support is 30%. (You need to give the set of frequent itemsets in L_1 , L_2 , ..., candidate itemsets in C_2 , C_3 , ...).
2. Find all the association rules that involves only B, C, H (in either left or right hand side of the rule). The minimum confidence is 70%.

Q3 I

Compute the frequent itemset of for the data in Q2 using the FP-growth algorithm.