

INFS4203/INFS7203 Data Mining (2009)

Assignment 1

The goal of this individual written assignment is to explore the area of association rule mining. This assignment counts for 5% of the total unit assessment. Show details of your answers and calculations step-by-step, otherwise your marks will be deducted.

The due date of this assignment is Thursday of Week 5 (27 Aug, 2009). You can submit either in hardcopy (During the lecture class), or send it in email to xueli@itee.uq.edu.au before the deadline (Please title your email as: INFS4203/INFS7203 Assignment-1 Submission).

Question 1

A database has four transactions. Let $\text{min-sup} = 60\%$ and $\text{min-conf} = 80\%$.

TID	Date	Items bought
120	5/10/02	{ Apple, Fish, Detergent, Banana }
230	5/10/02	{Detergent, Banana, Apple, Carrot, Egg }
340	15/10/02	{Carrot, Banana, Apple, Egg}
450	20/10/02	{Banana, Detergent, Apple }

- (a) Find: (1) Frequent items, and (2) Association rules by using the Apriori algorithm step by step.
- (b) Construct the corresponding FP tree step by step.