Date: 2023/11/04

From: 11204604 洪哲文

Assignment: Slide 26,27: Exercise

Exercise 1: Please use the Apriori algorithm for finding the frequent itemsets in D. (The min support count =2)

Itemset {1}	count	support
I1	6	66.67%
12	7	77.78%
13	6	66.67%
14	2	22.22%
15	2	22.22%

Itemset {2}	count	support
l1,l2	4	44.44%
l1,l3	4	44.44%
l1,l4	1	
l1,l5	2	22.22%
12,13	4	44.44%
12,14	2	22.22%
12,15	2	22.22%
13,14	0	
13,15	1	
14,15	0	
Itemset {3}	support	
11,12,13	2	22.22%
11,12,15	2	22.22%

Exercise 2:

1.Please calculate the confidence for each rule.

	Relation	Confidence
	{11,12}→15	50%
*	{11,15}→12	100%
*	{12,15}→11	100%
	I1→{I2,I5}	33%
	I2→{I1,I5}	29%
*	I5→{I1,I2}	100%

2.If the minimum confidence threshold is 70%, which are strong rules? Those 3 * are the strong rules.