Frequent Pattern Mining

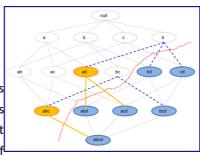
Maximum Frequent Itemset¹

An itemset is MFI if none of its supersets are frequent itemsets. In figure 1, **ad** and **abc** are MFI, because none of their supersets are frequent itemsets.

Figure 1

Closed Frequent Itemset²

A closed frequent itemset is where all of an itemset's supersets has a frequency that are lower than the frequency of



the current itemset. In figure 2 itemset a, c, cd and abd are CFI (Closed Frequent Itemsets).

Figure 2

Apriori

Threshold:

2

Items:

Α

В С

D

Ε

C1

null 3 a 2 b 3 c 2 d 2 ab 1 ac 2 ad 1 bc 2 bd 2 cd		
1	BE	
2	ABCE	
3	BCD	
4	ACE	
5	D E	

А	2
В	3
С	3
D	2
Ë	4

C2

	AB	1
	AC	2
	AE	2
	BC	2
	BD	1
	BE	2
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C3

ABC	1
ABE	1
ACE	2
BCD	1

C4

ABCE	1