

















































FP-1	Tree Algori	thm
$\begin{array}{c cccc} \hline TID & Items \ bought & (o. \\ \hline 100 & \{f, a, c, d, g, i, m, p\} \\ \hline 200 & \{a, b, c, f, l, m, o\} \\ \hline 300 & \{b, f, h, j, o, w\} \\ \hline 400 & \{b, c, k, s, p\} \\ \hline 500 & \{a, f, c, e, l, p, m, n\} \end{array}$	rdered) frequent iten {f, c, a, m, p} {f, c, a, b, m} {f, b} {c, b, p} {f, c, a, m, p}	ns min_support = 3
 Scan DB once, find frequent 1-itemset (single item pattern) 	Header Table	ead
 Sort frequent items in frequency descending order, f-list 	$ \begin{array}{ccc} J & 4 \\ c & 4 \\ a & 3 \\ b & 3 \\ m & 3 \\ \end{array} $	> c:3/ b:1> b:1 > a:3 p:1
3. Scan DB again, construct FP-tree F-b	р 3 Stootfreeriarb-m-p	m:2 b:1/ p:2 m:1 28













































































	Example	
 How do we learn the "daughter" relationship? Is this classification? Association? Covering Algorithm: "guess" at rule explaining only positive examples Remove positive examples explained by rule Iterate 		
Training examples Background knowledge		
$daughter(mary, ann). \oplus daughter(eve, tom). \oplus daughter(tom, ann). \oplus daughter(eve, ann). \oplus$	parent(ann, mary). female(ann). parent(ann, tom). female(mary). parent(tom, eve). female(eve). parent(tom, ian).	
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