

FP Growth with Partition Algorithm

TID	Items	misup = 50%
t ₁	a, c, d	
t ₂	b, c, e	
t ₃	a, b, c, e	
t ₄	b, e	

① Apply FP Growth Algorithm on each local partition

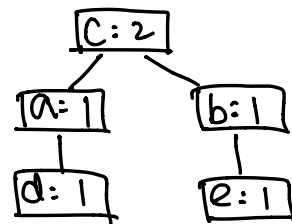
TDB1

TID	Items	ordered
t ₁	a, c, d	c, a, d
t ₂	b, c, e	c, b, e

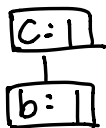
Header	
c	2
a	1
b	1
d	1
e	1

1st scan

2nd Scan

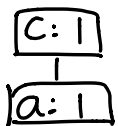


e-tree



{c, e}:1 {b, e}:1 {c, b, e}:1

d-tree



{c, d}:1 {a, d}:1 {c, a, d}:1

b-tree



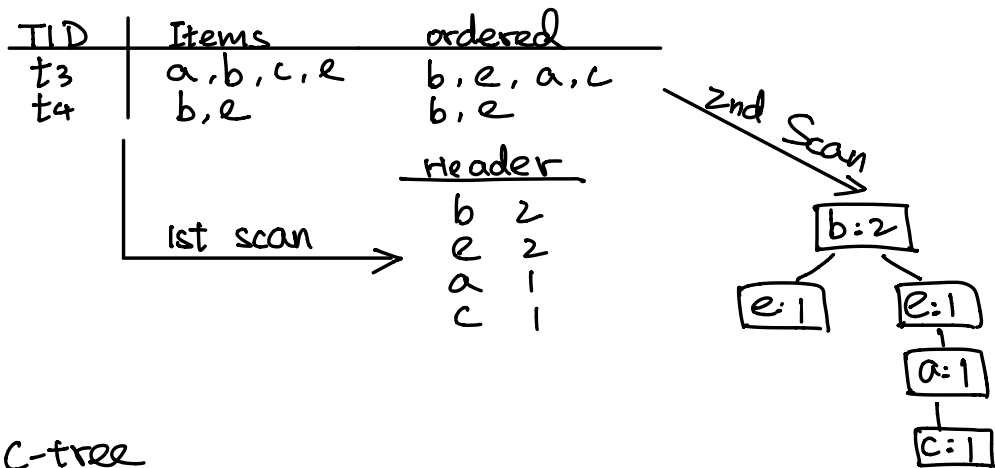
{b, c}:1

a-tree

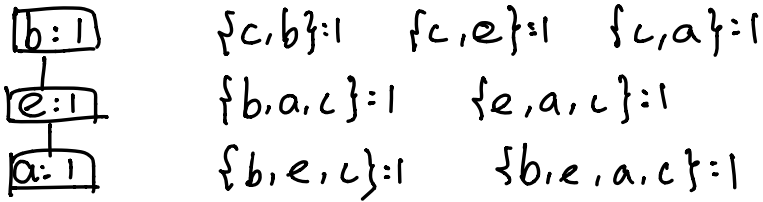


{c, a}:1

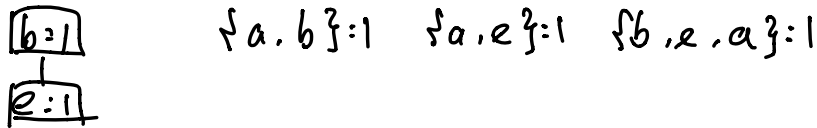
TDB2



C-tree



a-tree



e-tree



② Combine local frequent itemsets with their frequency, and find the global frequent itemsets $\geq \text{minsup}$.

C =

c	3
a	2
b	3
d	1
e	3
ce	2
be	3
cbe	2
ed	1
ad	1
ead	1
bc	2
ca	1
abc	1
rac	1
abec	1
ab	1
ae	1
bea	1

L =

c	3
a	2
b	3
e	3
ce	2
be	3
cbe	2
bc	2