

## 4.2.5.2 Fp-Tree Construct ?

Q

<i>TID</i>	<i>Items bought</i> <small>min sup = 3</small>
100	{f, a, c, d, g, i, m, p}
200	{a, b, c, f, l, m, o}
300	{b, f, h, j, o, w}
400	{b, c, k, s, p}
500	{a, f, c, e, l, p, m, n}

Solution ① Scan DB

minsup = 3

itemset	$\sigma$	
a	3	✓
b	3	✓
c	4	✓
d	1	
e	1	
f	4	✓
g	1	
h	1	

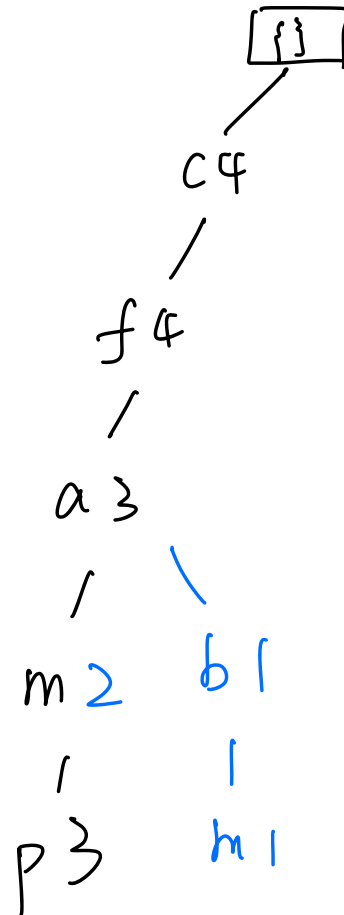
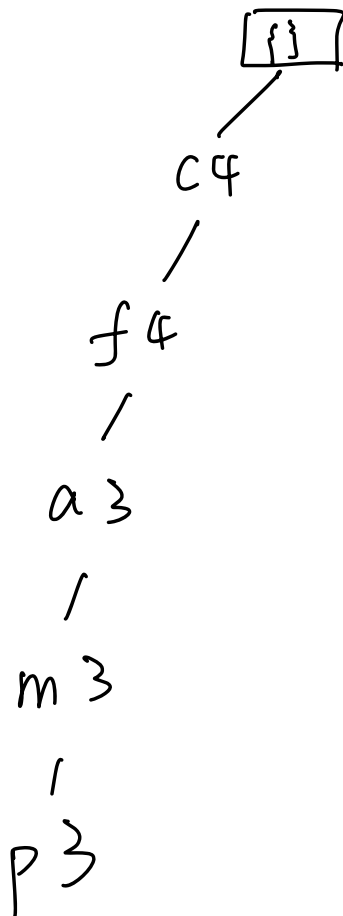
{f, a, c, d, g, i, m, p}  
 {a, b, c, f, l, m, o}  
 {b, f, h, j, o, w}  
 {b, c, k, s, p}  
 {a, f, c, e, l, p, m, n}

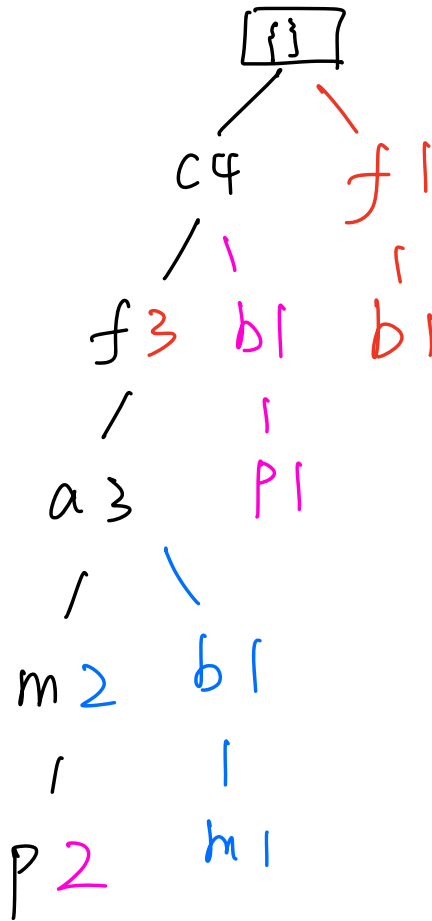
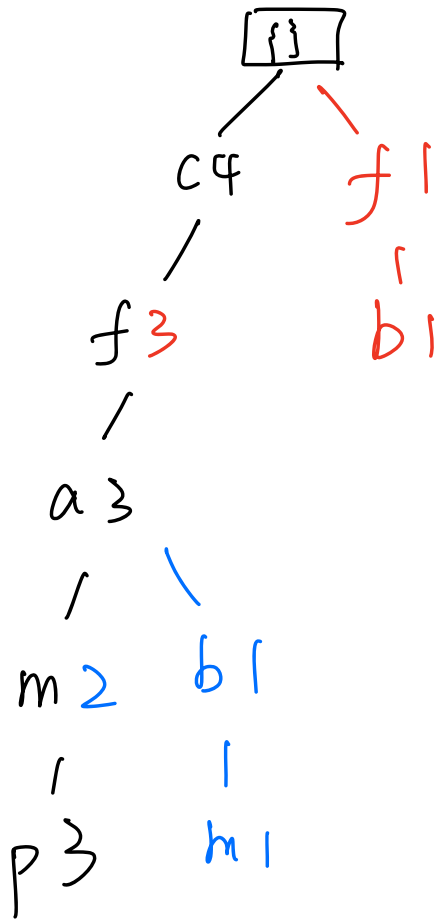
<del>i</del>	<del>1</del>	② Sorted list	
<del>j</del>	<del>1</del>		
<del>k</del>	<del>1</del>	itemset	$\sigma$
		c	4
		f	4
<del>l</del>	<del>2</del>	a	3
m	3 ✓	b	3
<del>n</del>	<del>1</del>	m	3
<del>o</del>	<del>2</del>	p	3
p	3 ✓		
<del>s</del>	<del>1</del>		
<del>w</del>	<del>1</del>		

② sort frequent items in frequency descending order, F-list  
 Sort can not follow Alphabetical order  
 but we recommend it.

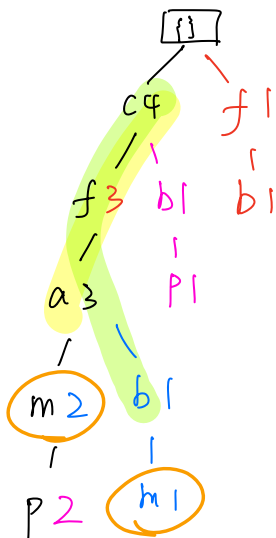
TID	f-list
100	c f a m p
200	c f a b m
300	f b
400	c b p
500	c f a m p

③ Construct FP-tree base on f-list





④ Construct conditional FP-Tree : m



	sup
c f a	3
<del>c f a b</del>	<del>1</del>

So, c f a is condi. FP-Tree