

<i>TID</i>	<i>Items bought</i>
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}

Suppose, *min_support* = 3

1. Scan DB once, find frequent 1-itemset (single item pattern)

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

Item	Support
a	3
b	3
c	4
d	1
e	1
f	4
g	1
h	1
i	1
j	1
k	1
l	2
m	3
n	1
o	2
p	3
s	1

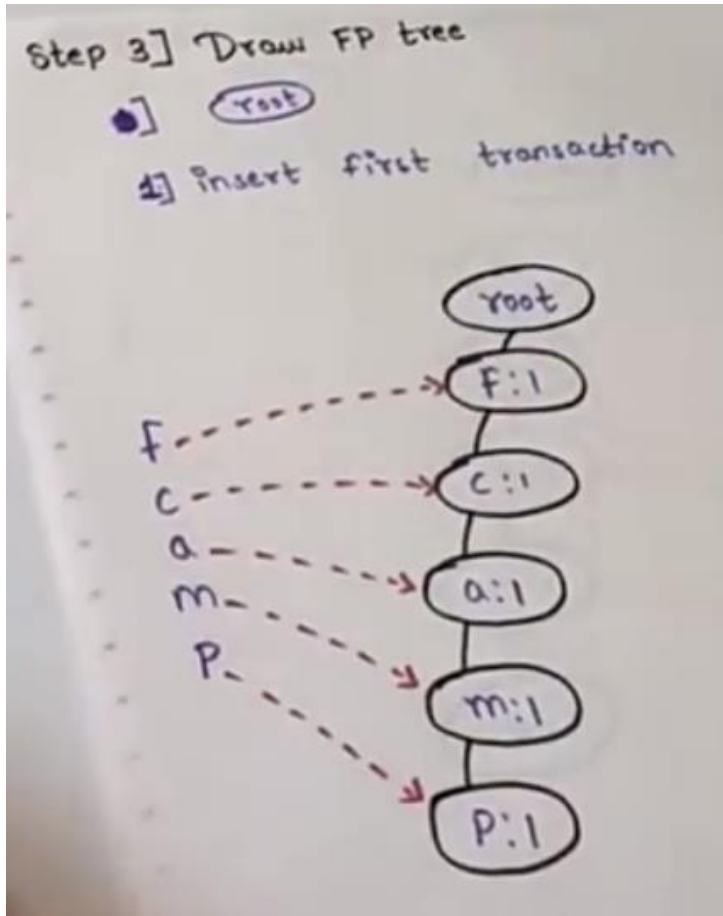
Item	Support
a	3
b	3
c	4
f	4
m	3
p	3

Comparing minimum support = 3

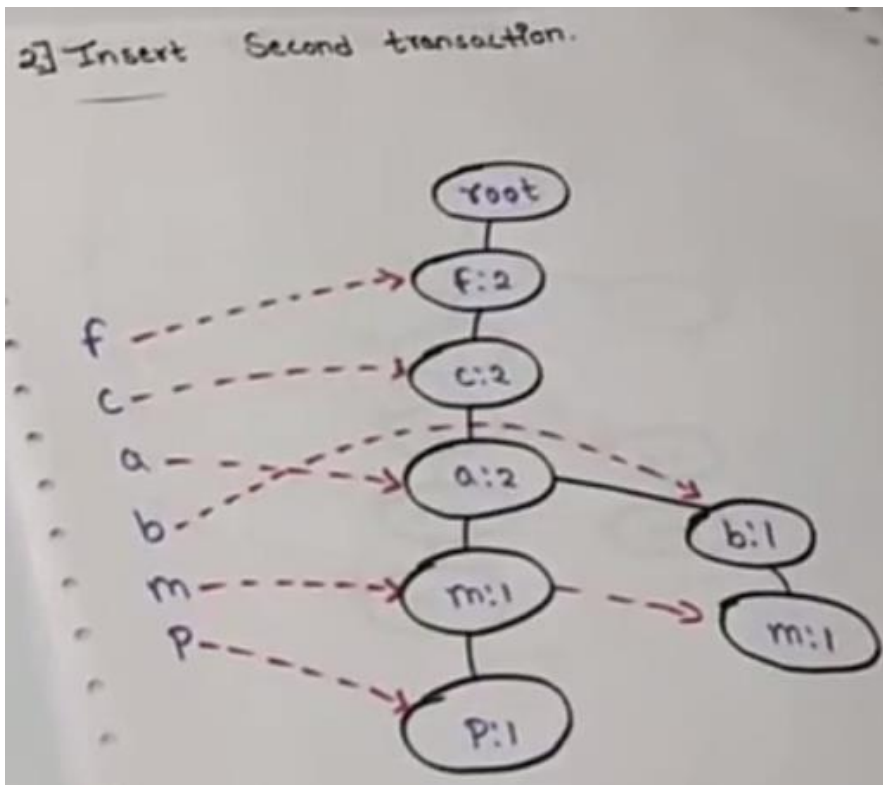
- Sort frequent items in frequency descending order, f-list

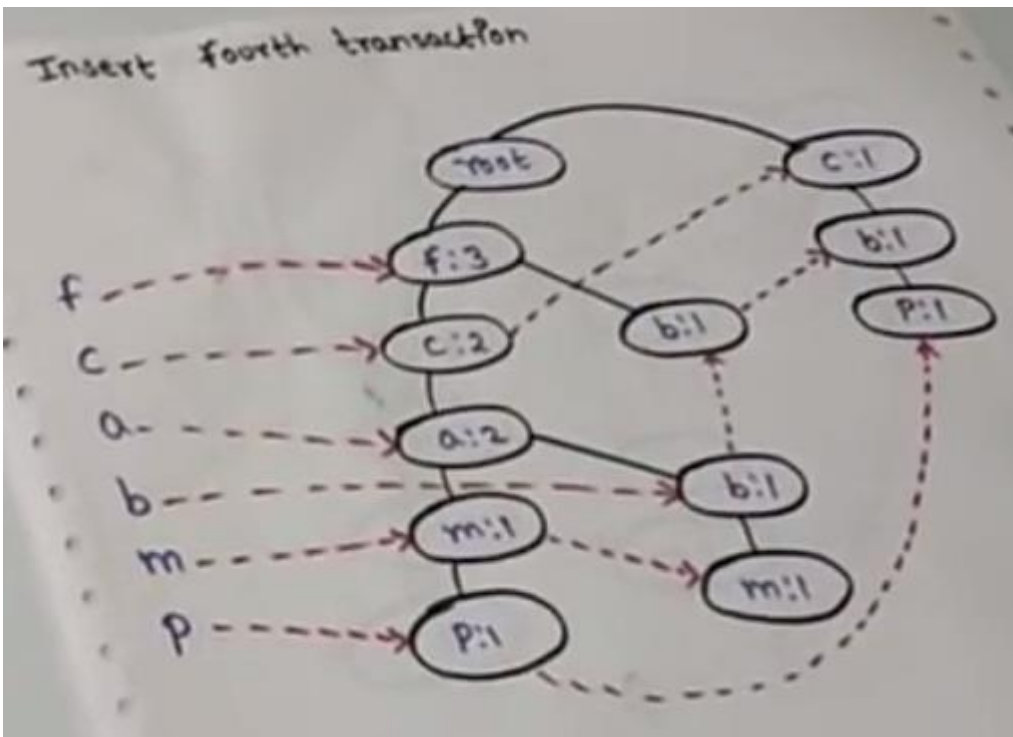
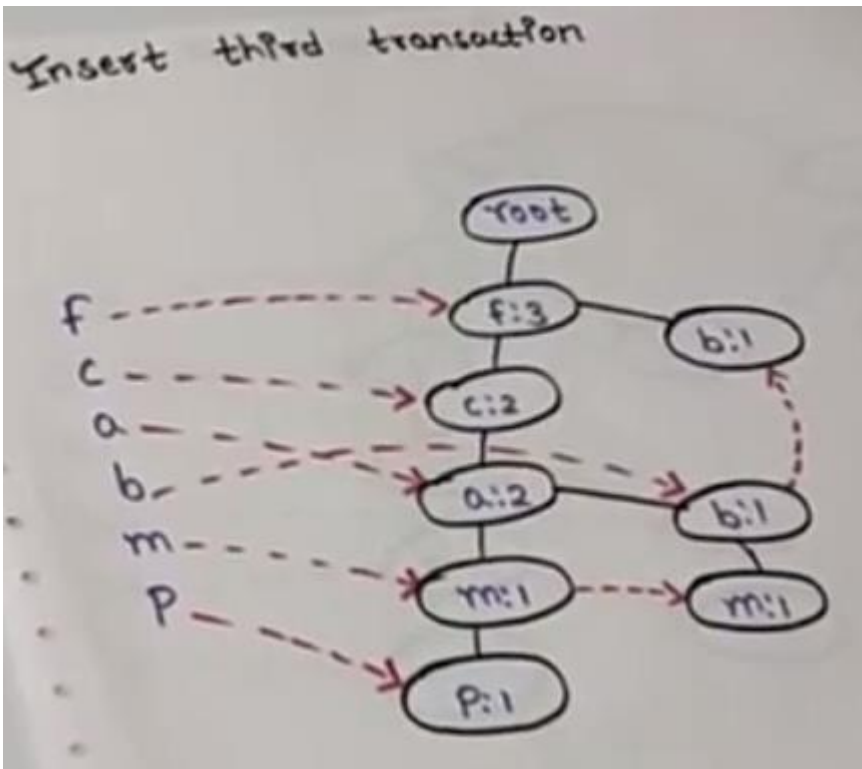
$$f=4, c=4, a=3, b=3, m=3, p=3$$

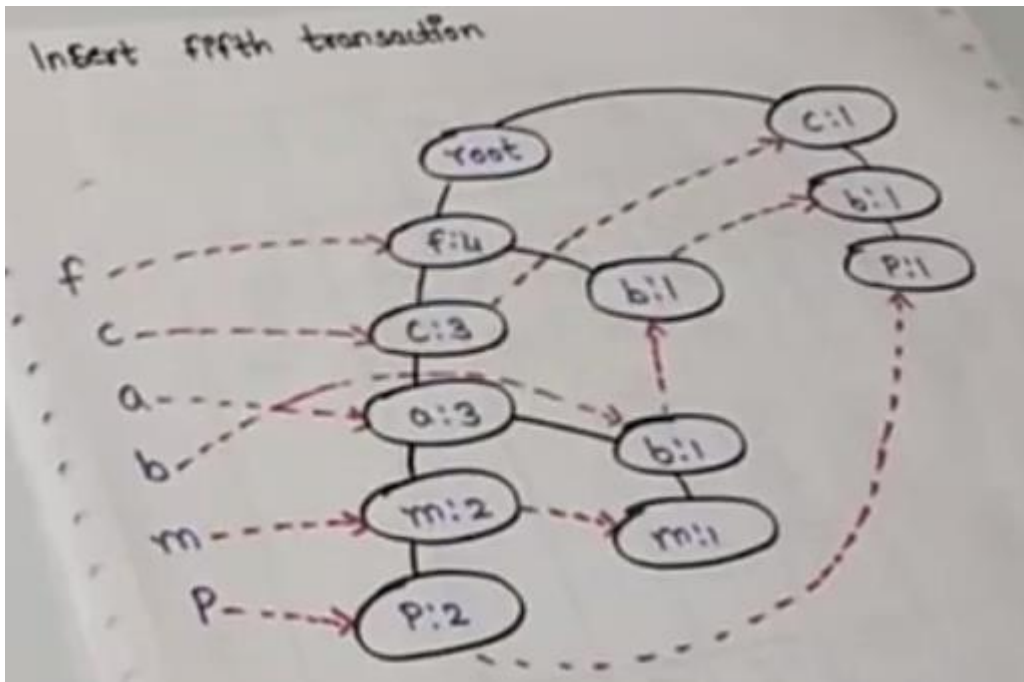
- Scan DB again, construct FP-tree



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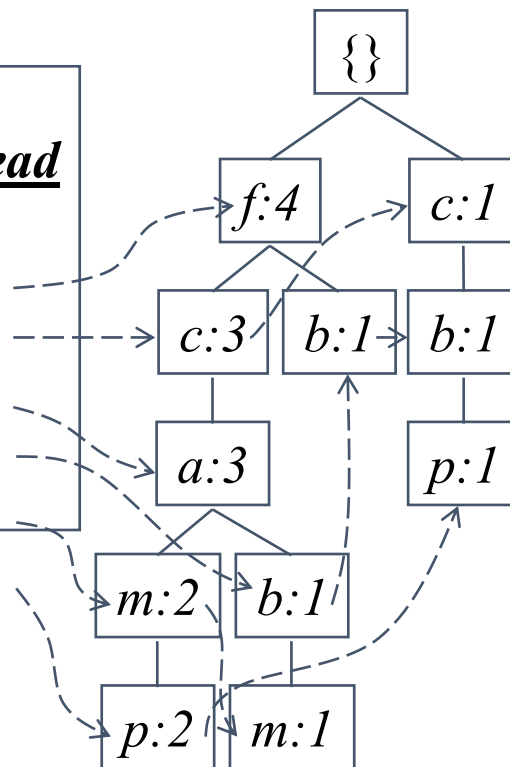






5.

Header Table	
<i>Item</i>	<i>frequency head</i>
<i>f</i>	4
<i>c</i>	4
<i>a</i>	3
<i>b</i>	3
<i>m</i>	3
<i>p</i>	3



F-list=f-c-a-b-m-p

Final: Discover Frequent Mining Pattern

item	Conditional Pattern base	Conditional FP tree
P	(fca:m:2) (cb:1)	(c:3) P
M	(fca:2), (fcab:1)	(f:3, c:3, a:3) m
B	(fca:1) (f:1) (c:1)	Empty
A	(fc:3)	(f:3, c:3) a
C	(f:3)	(f:3) c
F	Empty	Empty