

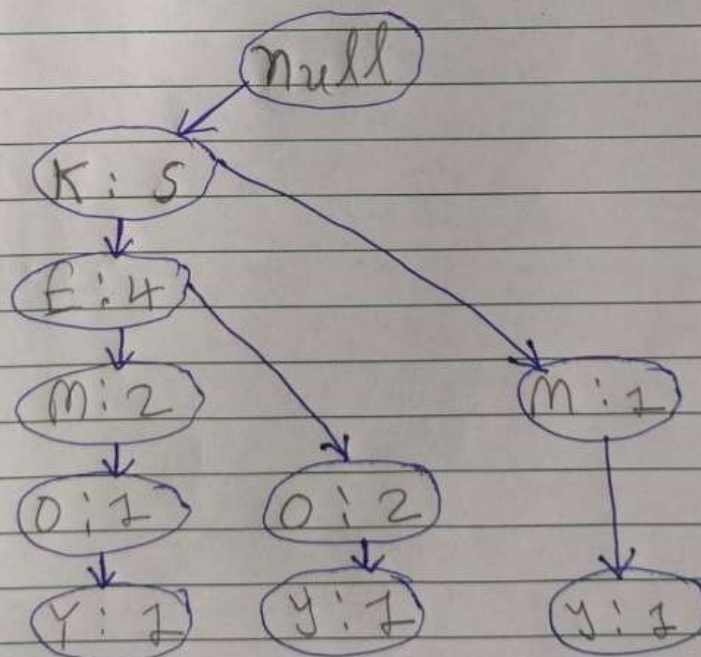
* Frequent Pattern Tree :-

exc-1	TID	Items	Step-1 Items	min. sup ≥ 3 frequency
	1	E K M N R O Y	A	1 X
	2	D E K N O Y	C	2 X
	3	A B K M	D	1 X
	4	C K M V Y	E	4 ✓
	5	C E I K O	I	1 X

Step-2

TID	sorted Items	Items	frequency
1	R E M O Y	K	5 ✓
2	K E O Y	M	3 ✓
3	K E M	N	2 X
4	K M Y	O	3 ✓
5	K E O	V	1 X
		Y	3 ✓

Step-3

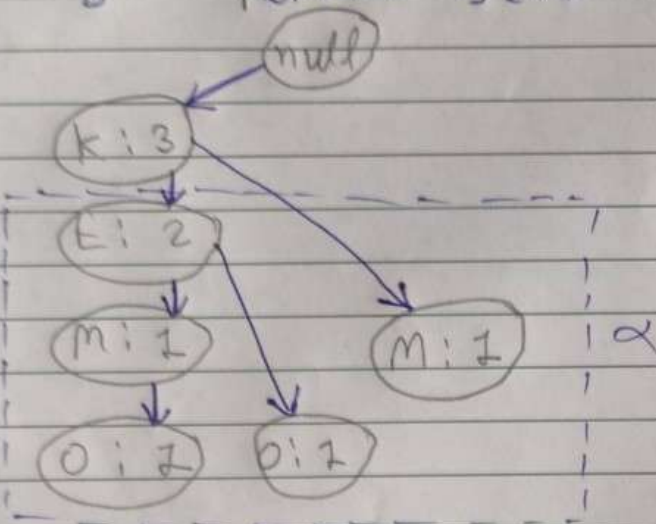


step:-4 conditional pattern

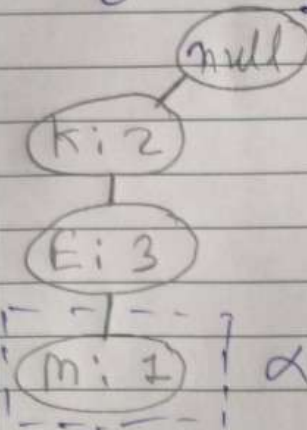
Item	conditional pattern
y	{kEMO:1} {kEO:1} {KM:1}
O	{kEM:1} {kE:2}
M	{kE:2} {K:1}
E	{K:4}
K	-

step:-5

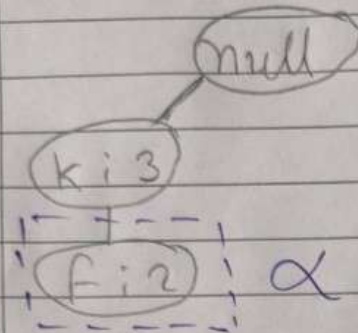
Item	conditional	fp-tree
y	{kEMO:1} {kEO:1} {KM:1}	{K:3}



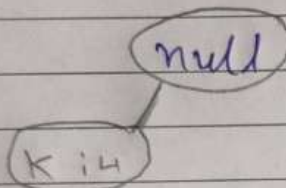
Item	conditional pattern	fp-tree
O	{kEM:1} {kE:2}	{K:3, E:3}



item	conditional pattern	fl-tree
M	$\{KF:2\} \{K:1\}$	$\{K:3\}$



item	conditional pattern	fl-tree
E	$\{K:4\}$	$\{K:4\}$



step: 6	conditional pattern	fl-tree	frequent pattern generated
Item			
y	$\{KFMO:1\} \{KFO:1\} \{KM:1\}$	$\{K:3\}$	$\{K,y:3\}$
o	$\{KFM:1\} \{KF:2\}$	$\{K:3, F:3\}$	$\{K,o:3\}$
M	$\{KF:2\} \{K:1\}$	$\{K:3\}$	$\{K,M:3\} \{E,o:3\}$
E	$\{K:4\}$	$\{K:4\}$	$\{K,E:4\}$
K	-		

ex-2

TID	Items
1	1 2 5
2	2 4
3	2 3
4	1 2 4
5	1 3
6	2 3
7	1 3
8	1 2 3 5
9	1 3 3

min support = 2

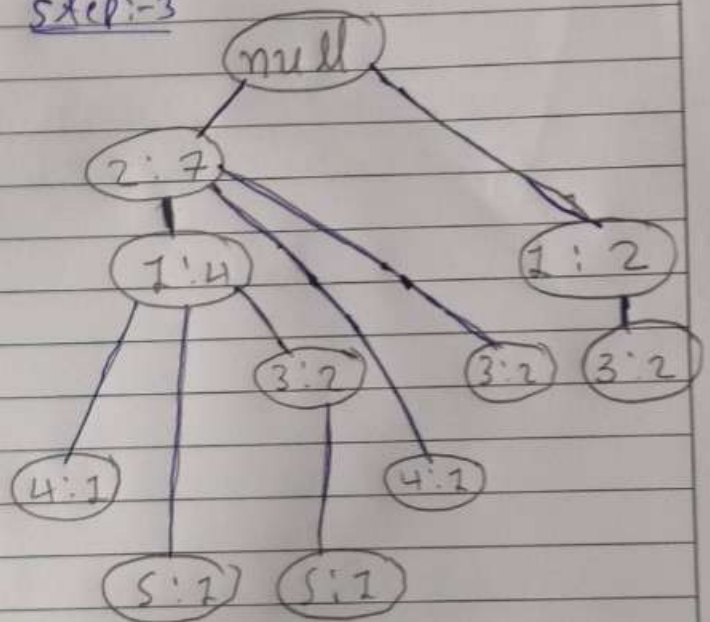
Step:-1

Item	frequency	
1	6	✓
2	7	✓
3	6	✓
4	2	✓
5	2	✓

Step:-2

TID	Items
1	2 1 5
2	2 4
3	2 3
4	2 1 4
5	2 3
6	2 3
7	1 3
8	2 1 3 5
9	2 2 3

Step:-3



Step:-4

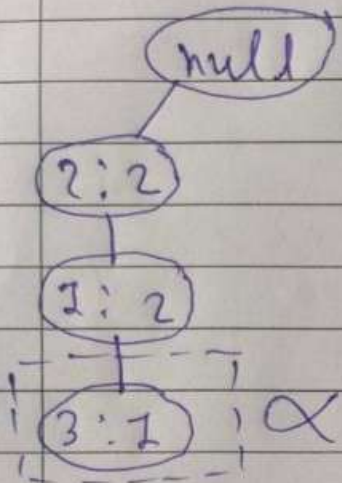
Item

conditional pattern

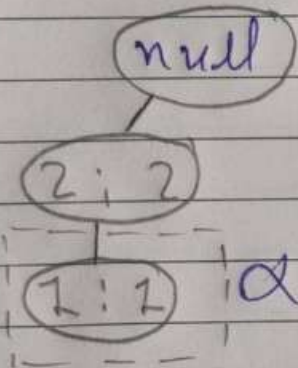
5	{2 1 3:1} {2 1:2}
4	{2 1:1} {2:1}
3	{2 1:2} {2:2} {1:2}
1	{2 1:4}
2	

step:-5

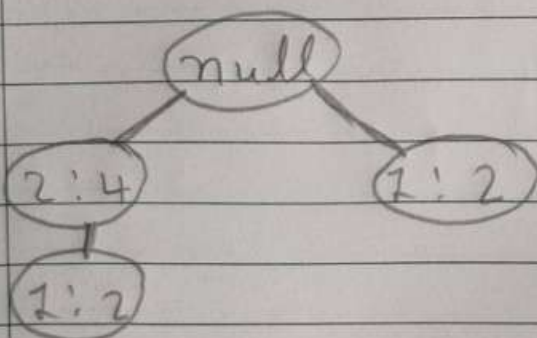
Item	conditional pattern	fp-tree
5	$\{2:1, 3:1\}$ $\{2:2, 1:1\}$	$\{2:2, 1:2\}$



Item	conditional pattern	fp-tree
4	$\{2:1, 1:1\}$ $\{2:2\}$	$\{2:2\}$

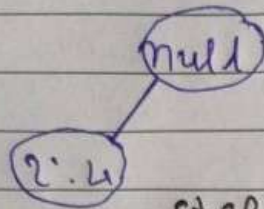


Item	conditional pattern	fp-tree
3	$\{2:1, 2:2, 1:2\}$ $\{2:4, 1:2\}$	$\{2:4, 1:2\}$



↓
duplicate just 1
& and 2 and 4 bec
it is a set

Item	conditional pattern	FP-pattern
1	{2:4}	{2:4}



step:-6

Item	conditional pattern	Frequent FP-tree patterns gen.
5	{2 1 3:1} {2 1:1}	{2:2, 1:2}
4	{2 1:1} {1:1}	{2:2}
3	{2 1:2} {2:2} {1:2}	{2:4, 1:2}
1	{2:4}	{2:4}
2	-	{2, 5:2} {1, 5:2} {2, 1, 5:2} {2, 4:2} {2, 3:4} {2, 3:2} {2, 1, 3:2} {2, 1:4}