

4.2.5.4 FP Algorithm

Q (1) FP min sup = 2

(2) Apriori

TID	Items
1	{A,B}
2	{B,C,D}
3	{A,C,D,E}
4	{A,D,E}
5	{A,B,C}
6	{A,B,C,D}
7	{A}
8	{A,B,C}
9	{A,B,D}
10	{B,C,E}

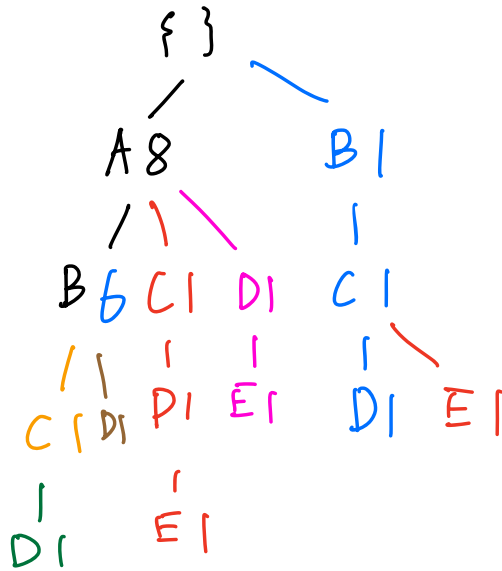
Solution ① Scan DB

itemset	σ
A	8
B	7
C	6
D	5
E	3

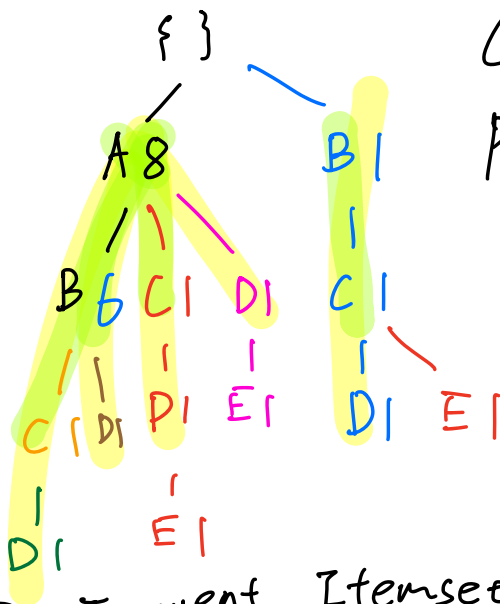
already sorted frequency list

TID	Items
1	{A,B}
2	<u>{B,C,D}</u>
3	<u>{A,C,D,E}</u>
4	<u>{A,D,E}</u>
5	<u>{A,B,C}</u>
6	<u>{A,B,C,D}</u>
7	<u>{A}</u>
8	<u>{A,B,C}</u>
9	<u>{A,B,D}</u>
10	<u>{B,C,E}</u>

② Fp Tree



③ CPB : D .



Condition Pattern base
for D

PB = { (A|B|C|),
(A|B|),
(A|C|),
(A|),
(B|C|) }

④ Frequent Itemset found

see the PB = { A : 4 B : 3 C : 3 } + D

min sup = 2 So no one is removed

D AD BD CD AB AC BC