

tid	itemset
1	ACDEF
2	ABCDE
3	BCE
4	ACDEF
5	DB

Support : 3

Item	frequency
C	4
D	4
A	3
B	3
E	3
F	3

no elimination all  $\geq 3$   
updated transaction

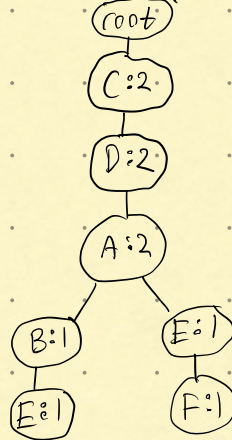
Sorted:

tid	itemset
1	CDAEF
2	CDABE
3	CBF
4	CDAEF
5	DB

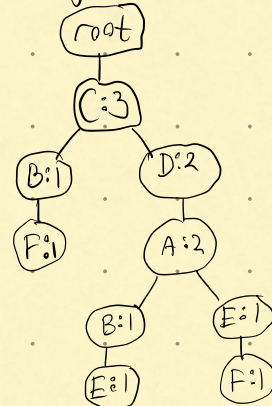
tid 1:



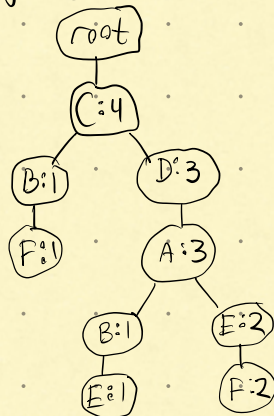
tid 2:



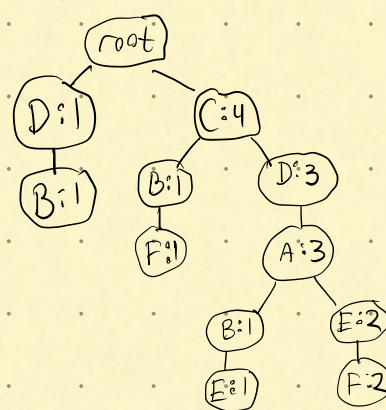
tid 3:



tid 4:



tid 5:



## Project on F:

Path: Count  
 CDAEF 2  
 CBF 1

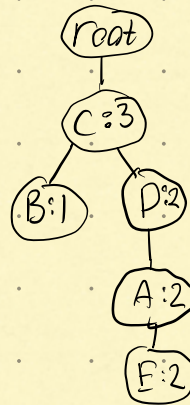
Projected FP-tree:

$\emptyset \rightarrow C(3) \rightarrow D(2) \rightarrow A(2) \rightarrow E(2)$

all except C is below support limit

$\emptyset \rightarrow C(3)$

Freq Pattern: {F, FG}



## Project on E

Path: Count  
 CDAE 2  
 CDABE 1

Projected FP-tree

$\emptyset \rightarrow C(3) \rightarrow D(3) \rightarrow A(3)$

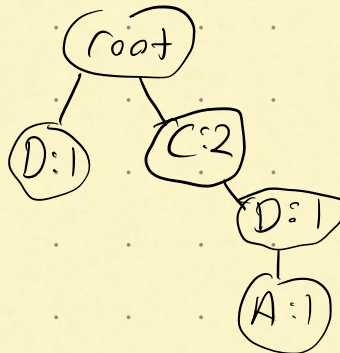
Freq. Pattern:

{E, EA, ED, EC, EAD, EAC, EDC, EADC}



## Projected on B:

Path: Count  
 CDAB 1  
 CB 1  
 DB 1





### Projected BD:

Path Count

D 1

CD 1

Projected FP-tree

$\emptyset \rightarrow C'$

Frequent pattern

$\{BD\}$

### Projected BA:

Path Count

CDA 1

Frequent pattern

$\{BA\}$

### Projected BC:

Path Count

C 1

Frequent pattern

$\{BC\}$

### Projected A

Path Count

CDA 3

Projected FP-tree

$\emptyset \rightarrow C(3) \rightarrow D(3)$

Frequent pattern

$\{A, AD, AC, ACD\}$



### Projected D

Path Count

CD 3

D 1

Projected FP-tree

$\emptyset \rightarrow C(3)$

Frequent pattern

$\{D, CD\}$



### Projected on C

Path Count

C 3

Freq pattern

$\{C\}$