Apriori Algo

- Min Support = 50%
- Threshold Confidence = 70%

(I) Data Set

Tp	Items
100	1 3 4
200	2 3 5
300	1 2 3 5
400	2 5

(I)

Itemset	Support
1	2/4 → 50% ✓ 2
2	3/4 → 75% ✓ 3
3	3/4 → 75% ✓ 3
4	1/4 → 75% ✓ 3
5	3/4 → 75% ✓ 3

(Itemset ↔ 1, 2, 3, 5.)

(II)

Itemset	Support
{1,2}	1/4 → 25% ✗
{1,3}	2/4 → 50% ✓ 2
{1,5}	1/4 → 25% ✗
{2,3}	2/4 → 50% ✓ 2
{2,5}	3/4 → 75% ✓ 3
{3,5}	2/4 → 50% ✓ 2

(III)

Itemset	Support
{1,3,5}	1/4 = 25% ✗
{2,3,5}	2/4 = 50% ✓ 2
{1,2,3}	1/4 = 25% ✗

We will use this to create our association rule.

Forming Rules

Min Support = 50%

Threshold Confidence = 70%

Confidence	Rules	Support
2/2=100%	(2^3) → 5	2
2/2=100%	(3^5) → 2	2
2/3=66%	(2^5) → 3	2
2/3=66%	2 → (3^5)	2
2/3=66%	5 → (2^3)	2
2/3=66%	3 → (2^5)	2

Confidence = S(A∪B) / S(A)

E.g.:- (2^3) → 5

A B

S((2^3)∪5) / S(2^3)

= 2/2 = 100%.

Confidence
2/2 = 100%
2/2 = 100%
2/3 = 66%
2/3 =

Final Rule → (2^3) → 5 & (3^5) → 2

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FP Growth

Min Support = 2

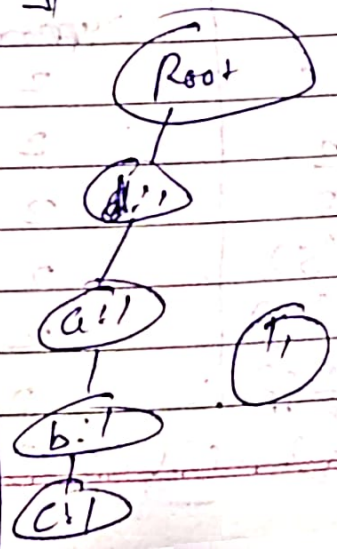
TID	Items
1	b d c a
2	e d c
3	a b
4	a c d
5	f g d b

Items	support
a	3
b	3
c	3
d	4
e	1 x
f	1 x
g	1 x

According to priority Reorong TID table above

d	4
a	3
b	3
c	3

	TID	Items
T1	1	d a b c
T2	2	d c
T3	3	a b
T4	4	d a c
T5	5	d b



This number will rearrange according to their occurance,