Vidit Kalani

Assignment-3

199n-1

and 1 b, d, e ?

Sup 2d3 = 5Sup 29,b3 = 4Sup 2b,d,e3 = 1

b) Compute the Confidence of Lb,d3=> La} and day => Lb,d3. Is Confidence a symmetric measure?

Confidence - $2b_1d_3 \Rightarrow 2a_3$ = $\frac{\text{Sup} 2a_1b_1d_3}{\text{Sup} 2b_1d_3} - \frac{0}{1} = \frac{0}{1}$

Confidence $\angle a_3^2 \Rightarrow \angle b_1 d_3^2$ $= \frac{\sup \angle a_1 b_1 d_3^2}{\angle a_3^2} = \frac{0}{7} = \frac{0}{10}$

confidence is not symmetric measure.

Vidit Kalani Assignment-3

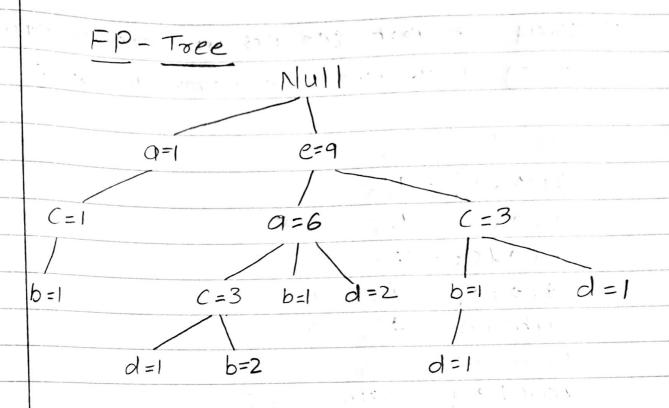
C) Build FP-tree for this transaction database for min_sup = 3. Do not need to Build Conditional FP-trees.

Sup $\angle 03 = 7$ Sup $\angle b3 = 4$ Sup $\angle (3 = 7 \Rightarrow t - ligt = e \rightarrow a + c \rightarrow d \rightarrow b$. Sup $\angle d3 = 5$ Sup $\angle e3 = 9$

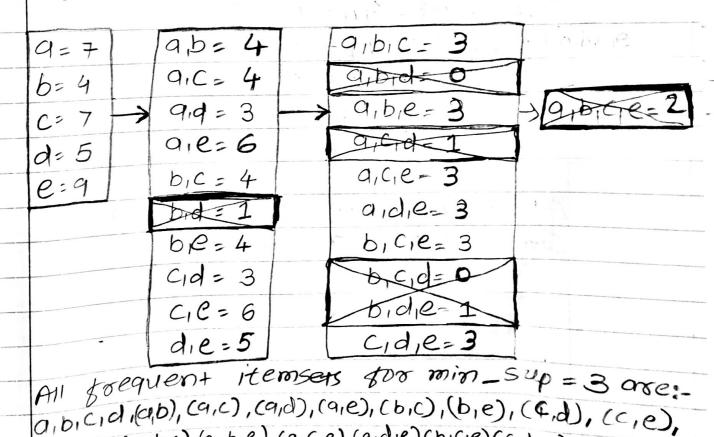
	Form-ID	Item bought
		e, 9, b
	2	e, a, c, b
	3	e,a,c,b
	4	e, 9, C, d
-	5	e,0,6,1d
-	6	e,c,d
	7	e, c,
	8	$e_{1}q_{1}d$
-	9	e, 9,d
	10	a,c,b
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Vidit Kalani.

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d> find all frequent itemsets using Aprilori Algorithm for min_sup = 3.



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Vidit Kalony

Assignment-3

e) using prequent itemsets in part(d), find all strong associations for confidence > 70%

293 + 283 = 6/7 = 0.85 263 + 263 = 4/5 = 0.80 263 + 263 = 6/7 = 0.85 263 + 263 = 6/7 = 0.85 263 + 263 = 5/5 = 1 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75 26163 + 263 = 3/4 = 0.75

An of the above associations have contidence 770%