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## Data Mining Assignment III.

(1) Apaiosi-based approach

Apriori based frequent substructure mining algorithms share similar characteristics with Apriori based frequent stemset mining algorithms. The search for frequent graphs start will graph of small rize and proceeds in a bottom-up manner by generating caudidatis having an extra vertox, edge and path. The definition of the graph depends

The main design correplexity of Aprioni-based substanture maring alogorithm is the Candidate generation step. The

Rach iteration of Aprioxi Graph.

2) minimum support = 2.

	C1 = 17 cmset	Coursed				
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L2 = Hemset 3.C. C2 = (I, I2) [, [2 4 (I1, [3) T, , Is 4  $(I_2, I_3)$ ١ 11,14 2 - (I, In) 14,15 2 (I, I4) 12,13 (T2, In) I2, 14 I2, I5 2 I3, I4 : 0 T3, Is I4,15 L3 = (I,12, I3) 2 (1,12,13) 2 C3 = (I,, E,, Is) .2 (I, I, I, I4) (I, I2, I5) 2 (T2, T3, En) 1 (I2, I3, I4) 0  $C_3 = (\underline{T}_1, \underline{\Gamma}_2, \underline{\Gamma}_3, \underline{T}_5) - 1 \times$ (B) confidence = 70% Confidence 2/4 = 50% (1,12) => Ig 2/4 = 50% (I, I3) => I2 2/4 = 50% (I2, I,) => I 2/4 = 50% (I, 2) =) I5

Confidure

In => (1,112)

Strong dissociation rules 
$$\Rightarrow$$
  $(I_1, \Gamma_5) \Rightarrow \Gamma_2$   $(I_2, \Gamma_5) \Rightarrow \Gamma_1$   $\Gamma_7 \Rightarrow (\Gamma_1, \Gamma_2)$