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(c) Complete link clustering different from Shape link clustering where x,x2 and x6 are grouped together by dire(x,x2,x6) = dist(x2,x6) = 0.61. We Change dist(x,x2, x2x4)= less than 0.61 dist (>L1,xy) to be Let dit (1,12,123×4) = dist (x1, x4) = 0.55 - dist (x3x4) New change dist (x,x2x2xxx, x6) that. =0.93 to be the smallest so 2, 222324 & 2, one granted together. Change this to 0.63 so that both den do grans become some.

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$$C_{ij} = E\left[\left(X_{i} - E(X_{i})\right)\left(X_{i} - E(X_{j})\right] + E\left(X_{i}\right)X_{j} - X_{i}E(X_{j}) + E\left(X_{i}\right)EK_{i}\right]$$

$$= E\left[X_{i}X_{j} - E(X_{i})X_{j} - X_{i}E(X_{j}) + E(X_{i})EK_{i}\right]$$

$$C_{ij} = E\left(X_{i}X_{j}\right) - \left(\frac{E(\alpha)}{M}\right)^{2} - \left(\frac{E(\alpha)}{M}\right)^{2} + \left(\frac{E(\alpha)}{M}\right)^{2}$$

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(b)
$$C = \frac{C(\alpha^2)}{n} - \frac{E(\alpha)}{n}^2 - \frac{E(\alpha)}{n}^$$

Consider hi

Trank (IC-hiII)=INo. of eight nectors of $h_2=m-\operatorname{Rank}(C-hiI)$ =m-I = M-I2) One eight he day is of the fam $(I_1I_1,-...I_n)$ and all other eight nectors have have have value which is $\frac{E(G_1)}{m} - \frac{E(G_1)}{m}$

(c) P(A will not work well as all Riger solves on some, Hendry remains dimensions will result in a large lass is varionce explained by P(A.