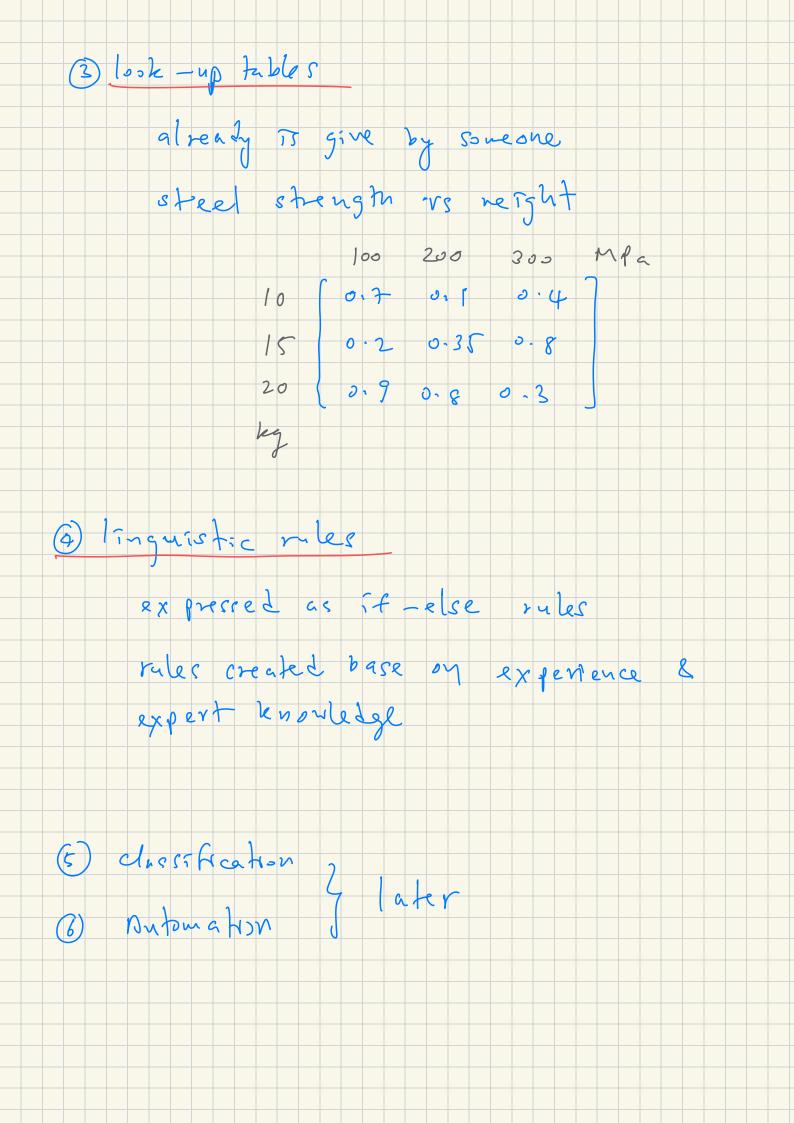
(9) Value Assignment - fuzzîfication - Men value assign for relations Value Assignment Say A and B are two fizzy sets Ri A B is a fuzzy relation nen mem. value et each elem in relation  $\mathcal{J}_{R,ij} = \alpha \qquad \alpha \in [0,1]$ let's use rij to rep nem. value. Meij Emm da mezn sim) 

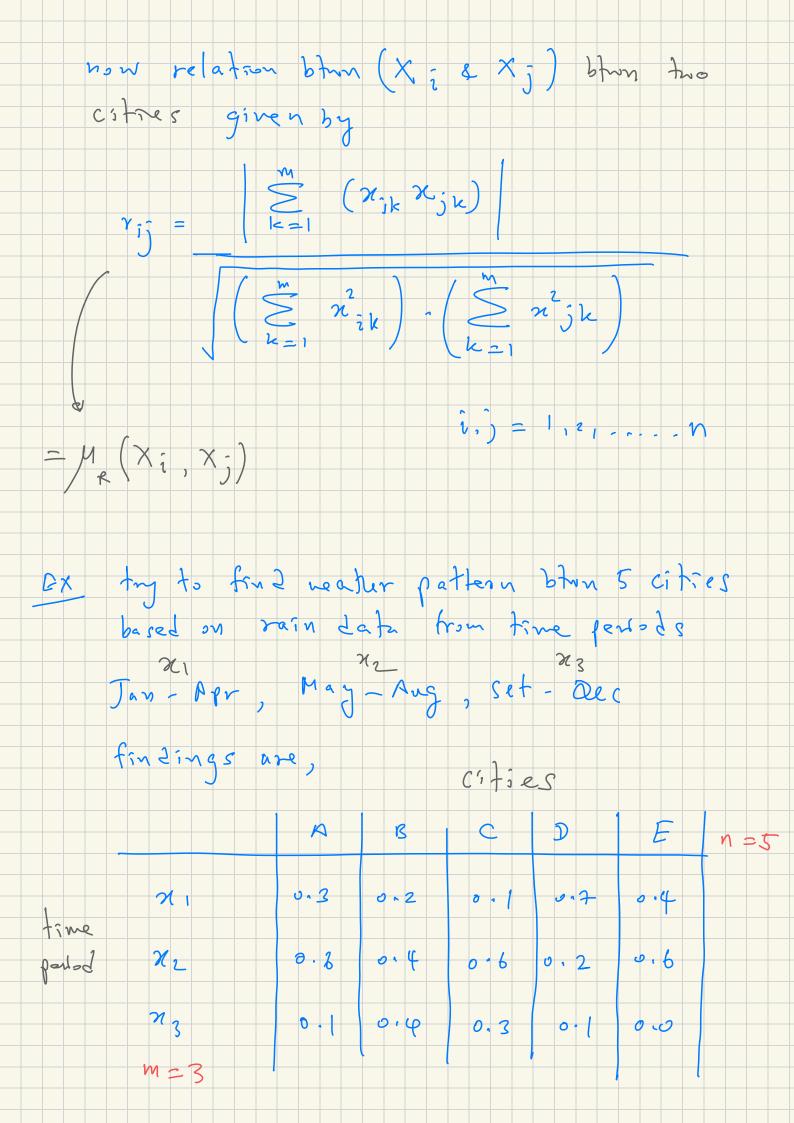
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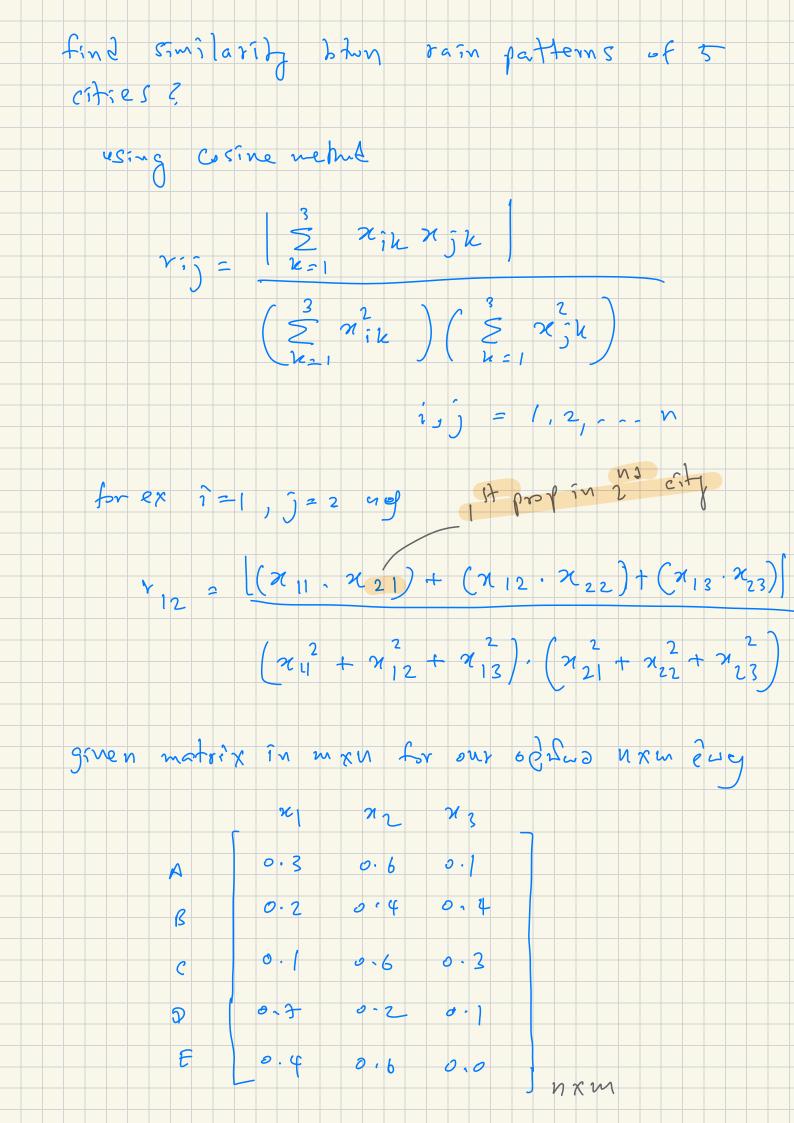
(2) closed form expression two number sets X & Y our relation R: X -> y such that  $y_1 = x_1$ create mem. fr 7; j = 1 - | 7 1 - 7j |et| 5 take 2 = 3 & y = 7  $\gamma = 1 - 3^2 - 7$ = 0.77 32=9 7,90845 : 2 î nz 45 726 relation 200 1 32m 4m (0177) 3000 3/21.

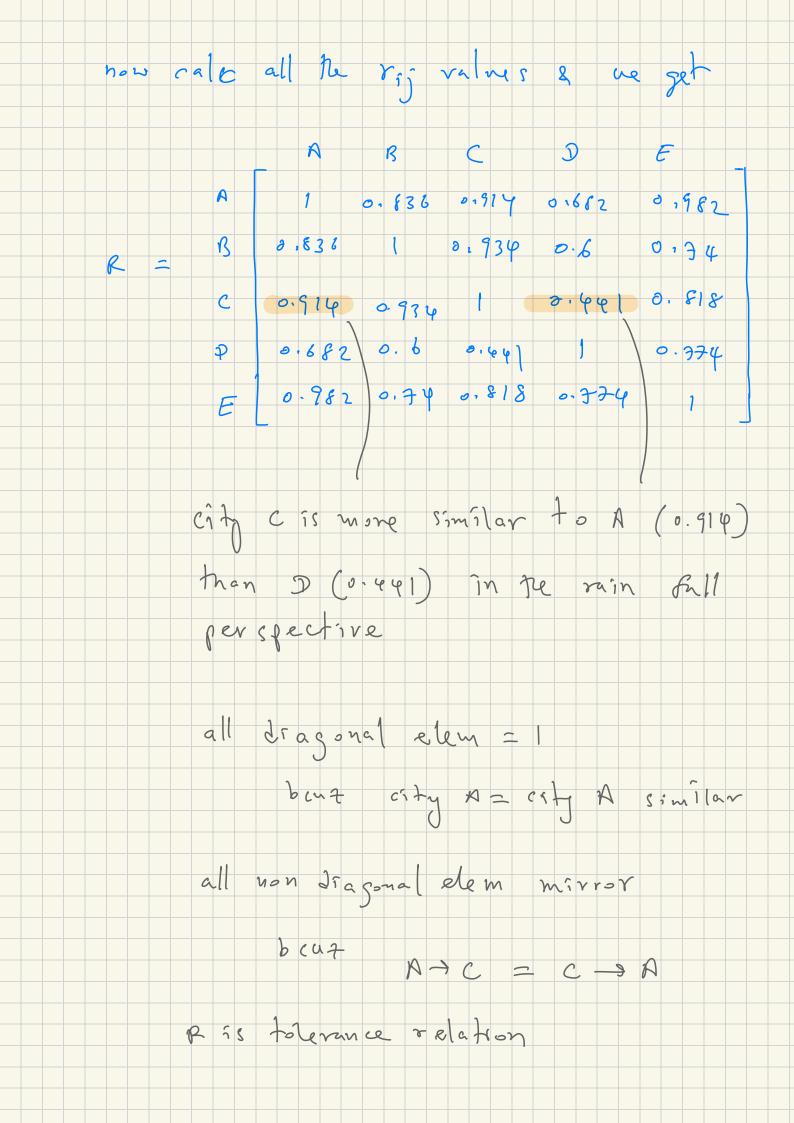


3 Similarity by 202eh in 1907 rep similarity bown two data, expressed - Data X, is rather similar to data X - Data X, is very similar to date X2 Similarity methode O Cosine Buplihle 2 Max-Min me Mod O Cosine Amplitude method ea ch universe Data set array x of size M each Xi is a vector of size m X, 2  $\{x_i, x_i, x_i, \dots, x_i, x_i, \dots, x_i, x_i, \dots, x_i, \dots,$ 

for example cities X = { col, kan, Gmp, log } n=4 each city has proportices X = { lat, long, temp, area, populations}  $X = \begin{cases} 76E, 9N, 25i, 94 km^2, 100 k \end{cases}$ X = { 77 E, 12N, 200, 741 4m², 9004 } Sup = X leog ? we've 4 citses, each city describe by a 1 x 5 vector







2 Max - Min Similarily nedhol Composition gury max-min 60162. Consider data anay  $X = \frac{1}{2} \times 1, \times 2, \times 3 - - \times 3$ and each set has elem  $\frac{x_1}{x} = \begin{cases} 3x_1, & 2x_1, & -x_1, & -x_2, & -x_1, & -x_2, & -x_1, & -x_2, & -x_2,$ tren men value for each elen  $\sum_{k=1}^{m} m_{1} n \left( \pi_{1} k, \pi_{2} k \right)$ = max (2214, 21jh) 2, j = 1, 2, -- n

