**CSA1616 Data Warehousing Data Mining**

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LAB PROGRAM 1:

Covariance and correlation Children of three ages are asked to indicate their preference for three photographs of adults. Do the data suggest that there is a significant relationship between age and photograph preference? What is wrong with this study? Photograph: Age of child A B C 5-6 years: 18 22 20 7-8 years: 2 28 40 9-10 years: 20 10 40

1. Use cov() to calculate the sample covariance between B and C.

2. Use another call to cov() to calculate the sample covariance matrix for the preferences.

3. Use cor() to calculate the sample correlation between B and C.

4. Use another call to cor() to calculate the sample correlation matrix for the preferences.

