## Name: GARDAS,Nuthan ID:20643274

Please design a controlled user study to evaluate these three methods. You need to provide the scheme of the user study (within-**subjects** or **between**-**subjects**), the number of subjects you plan to invite and their background, the tasks you give, the data you collect, the hypothesis you want to verify, and how you plan to analyze the data.

Ans-

Data:

Migration Data of US

People and their groups:

1. 3 People for each graph divided into 4 groups for 4 types of graphs.

Tasks:

1. Identify the most visual informative within 1-3 min after showing the theme of the data.
2. Rank the effectiveness of the graphs within 2-3 min of understanding of the visualization.
3. With-in subjects, ask them and rate their score percentage wise for their final preferred version.
4. Change the order and the subject list, randomizing but make sure each participant ranks all the graphs.
5. Collect the data of the ranking

Hypothesis:

Get a final ranking of the graph and its average score

Analyse:

Analyse the data by showing which is most easy to visualize and understand the underlying information.