1. **Provide the names of all group members.**

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2. **State research question #1.**

Are there any differences in the view categories proportions of children that watch sesame street across the different sites?

3. **Using your client's data set, create at least one graph (for EDA) pertaining to question #1.**
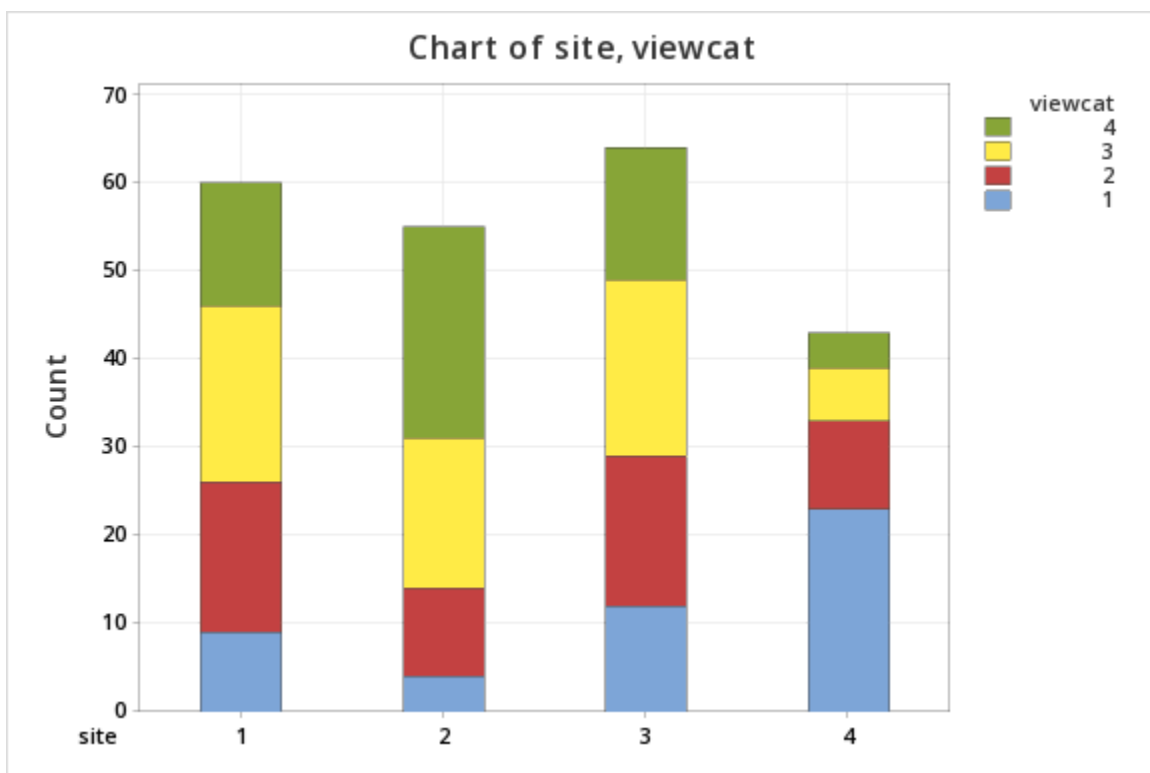

Figure1: Stack boxplot of view category and site

From figure1, firstly in site1, we can see that viewcat3 has the highest proportion. Secondly, in site2, viewcat 4 has the highest proportion. Thirdly, in site3, viewcat3 has the highest proportion. Lastly, in site 4, viewcat1 has the highest proportion. This EDA suggests that for each site there might be differences in the proportions of children that watch sesame street accounting for each view category. However, only looking at EDA cannot answer the research question yet.

4. **Provide your statistical analysis for question #1 and interpret the results.**

We performed the Chi-square test and the table below is the result

Chi-Square Test

	Chi-Square	DF	P-Value
Pearson	43.930	9	0.000
Likelihood Ratio	41.006	9	0.000

Table 1: Table of Chi-square test of homogeneity

Since the p-value is significant (less than 0.05), we reject the null hypothesis. There is sufficient evidence at the 0.05 level to conclude that proportion of children who watch sesame street differs among sites and view categories.