1.Business Overview

- Shamiri Institute is a data-driven organisation focused on developing and disseminating mental health interventions for African youths.
- The Purpose of the data analysis is to identify important trends among the questionnaires given to students.

2. Nature and Description of the data

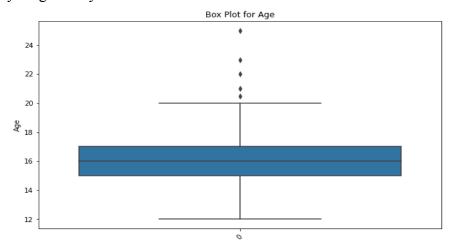
Description

- PHQ indicates Depression index measure, GAD represents Anxiety index measure, MSS indicates social support index measure.
- The data has shape of 653 rows and 33 columns
- The data has no missing values
- The data has no duplicates
- The data has no significant Outliers

Nature

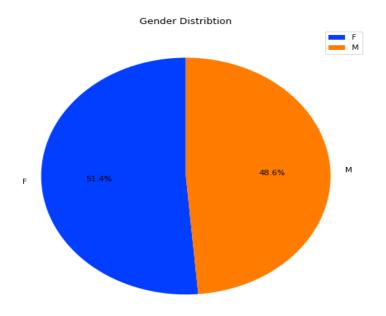
a) Age

The mean Age for the respondents is 16 years with the oldest respondent being 25 years and youngest 12 years

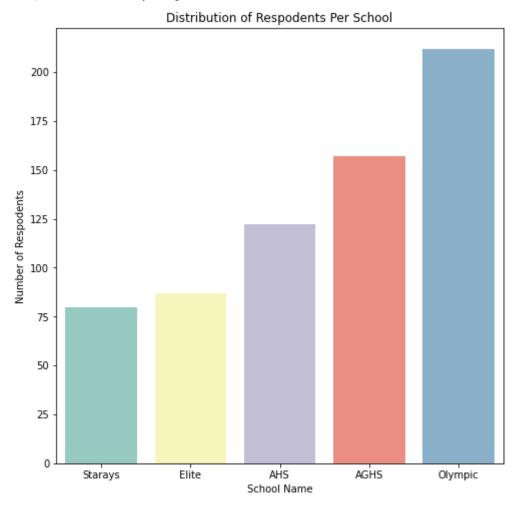


b) Gender Distribution

51.4% of the respondents were female while 48.6% were male

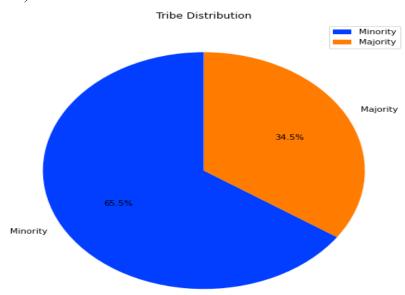


c) Distribution of Respondents Per School



Olympic School had the highest number of respondents (212) While Starays had the lowest number of respondents (76)

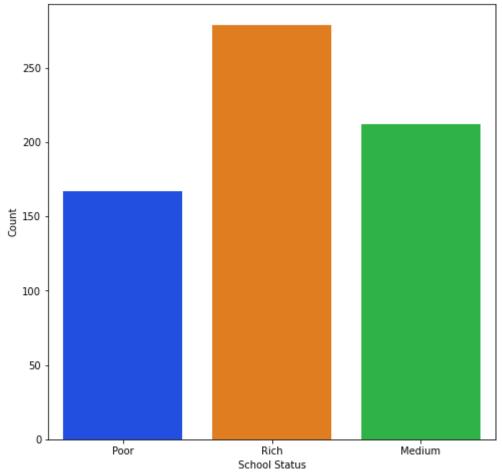
d) Tribe Distribution



65.5% Minority tribe, 34.5% Majority Tribe

e) Distribution Of School Resources

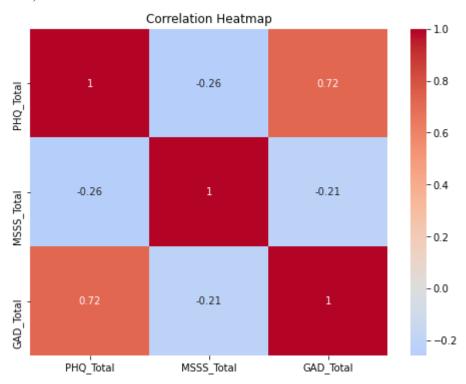




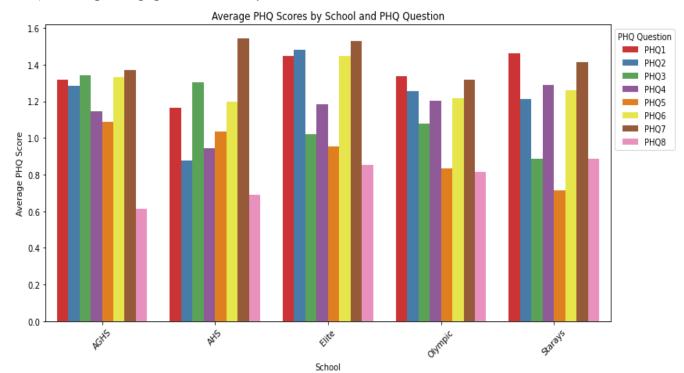
Majority of the respondents were from a Rich School.

3.EDA And Insights

a) Correlation

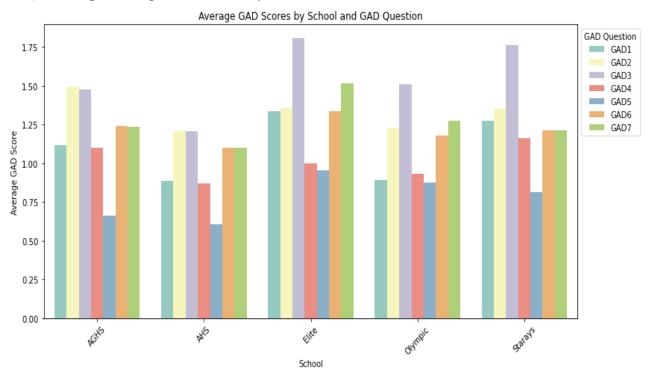


- There is a high correlation between PHQ scores and GAD scores.
- b) Average PHQ Question score by school



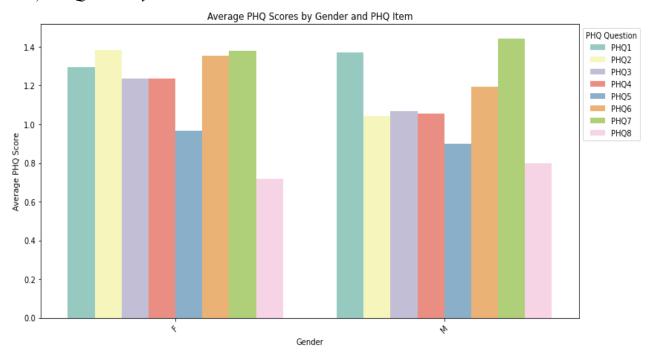
- Averagely, PHQ7 has the highest score among all schools indicating a moderate severe depression rate on the question. AHS has the highest score in PHQ7 indicating a concern
- PHQ1 has a high average score in Elite and staray school compared to other schools.
- PHQ8 is relatively low in all schools

c) Average GAD Question scores by school



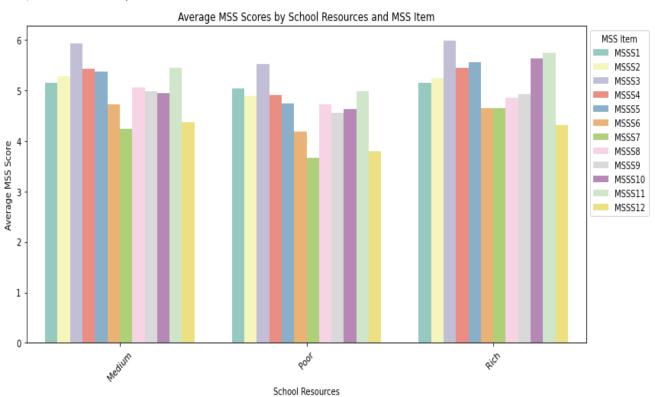
- Averagely, GAD3 has a high score in Elite, Olympic and Starays compared to AGHS and AHS
- GAD2 and GAD3 have an almost similar score in AGHS and AG compared to other schools
- GAD5 is averagely lowest in all schools
- AHS has relatively lower GAD scores compared to other schools

d) PHQ scores by Gender



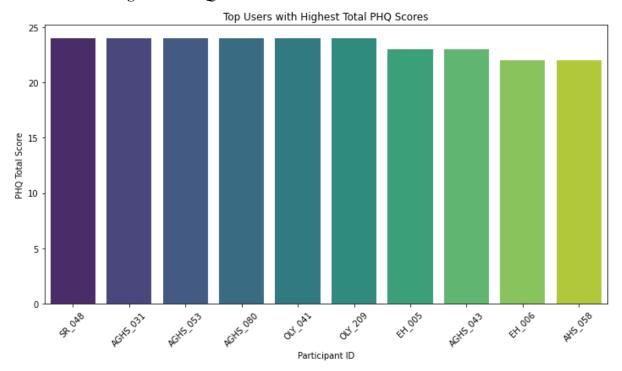
- PHQ2 had the highest score among Female while PHQ7 was the highest among men
- Both genders had a low score on PHQ8

e) MSS Score by School resources



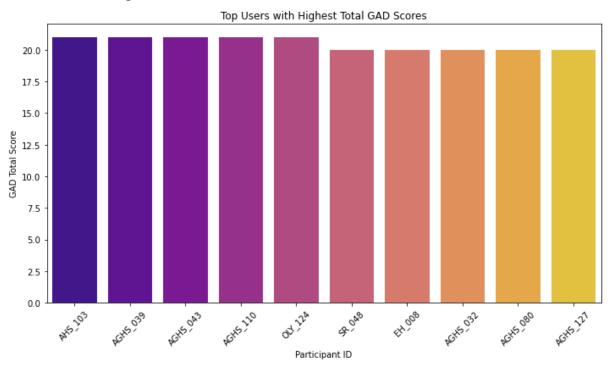
• MSS3 had the highest scores in all three school resources category

f) Individuals with high Total PHQ scores



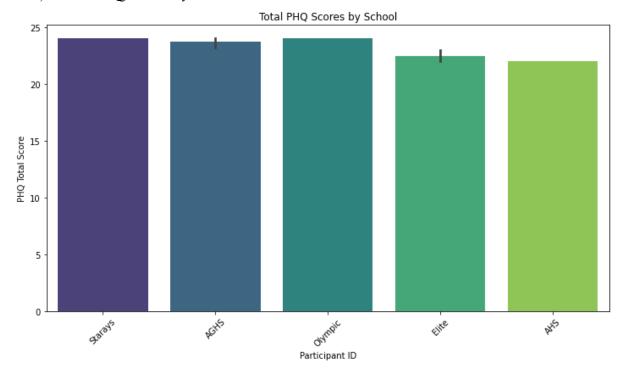
• SR048 student had the highest PHQ total score among all Participants

g) Individuals with High Total GAD scores

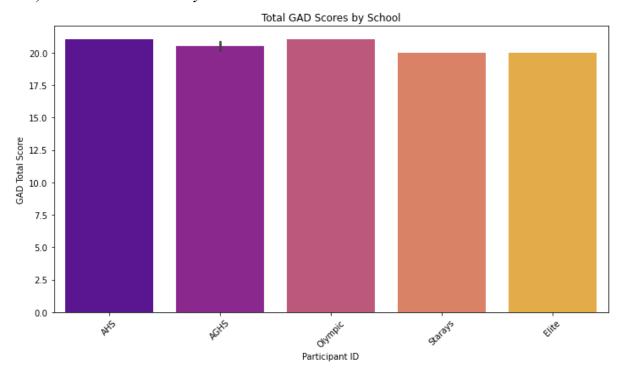


• Participant AHS103 had the highest GAD score among all participants

h) Total PHQ scores by School



- Starays school had the highest PHQ score among all schools
- i) Total GAD Scores by school



• AHS school had the highest GAD scores among all schools

4.Conclusion

- There is correlation between anxiety and depression meaning there is a cause-effect relationship between the two variables
- PHQ7 is very high across all schools and responsible team should focus on addressing the issue raised in PHQ7
- GAD3 is very high across all schools and responsible team should focus on addressing the issue raised in GAD3
- PHQ indicator is fairly similar across gender but male seem to have a higher output per question
- PHQ2 is extremely high in Elite school compared to other schools thus needing attention.
- PHQ2 average score is higher in Female than in male
- Individual SR048, AGHS031 and AGHS035 are the top three individuals with the highest PHQ scores indicating a high depression index
- Individual AHS103, AGHS039 and AGHS043 have the top most GAD scores indicating a high anxiety index
- Starayas school students had the highest total score in PHQ measure score
- AHS school students had the highest GAD measure scores