# Load the necessary libraries

library(readxl)

library(ggplot2)

>MentalHealthAnalysis <- read\_excel("path\_to\_your\_file/MentalHealthAnalysis.xls")

>MentalHealthAnalysis$Occupation <- as.factor(MentalHealthAnalysis$Occupation)

>MentalHealthAnalysis$Gender <- as.factor(MentalHealthAnalysis$Gender)

>MentalHealthAnalysis$Growing\_Stress <- as.factor(MentalHealthAnalysis$Growing\_Stress)

>MentalHealthAnalysis$Quarantine\_Frustrations <- as.factor(MentalHealthAnalysis$Quarantine\_Frustrations)

> MentalHealthAnalysis$Changes\_Habits <- as.factor(MentalHealthAnalysis$Changes\_Habits)

> MentalHealthAnalysis$Mental\_Health\_History <- as.factor(MentalHealthAnalysis$Mental\_Health\_History)

> MentalHealthAnalysis$Weight\_Change <- as.factor(MentalHealthAnalysis$Weight\_Change)

> MentalHealthAnalysis$Mood\_Swings <- as.factor(MentalHealthAnalysis$Mood\_Swings)

> MentalHealthAnalysis$Coping\_Struggles <- as.factor(MentalHealthAnalysis$Coping\_Struggles)

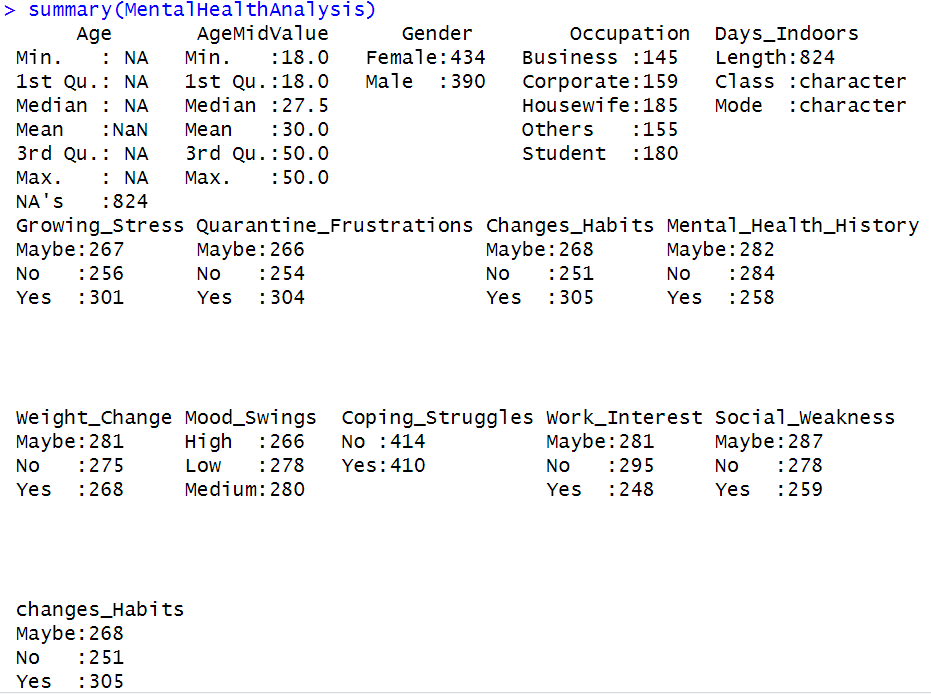
> MentalHealthAnalysis$Work\_Interest <- as.factor(MentalHealthAnalysis$Work\_Interest)

> MentalHealthAnalysis$Social\_Weakness <- as.factor(MentalHealthAnalysis$Social\_Weakness)

> MentalHealthAnalysis$Growing\_Stress <- as.factor(MentalHealthAnalysis$Growing\_Stress)

#Summary for dataset

>Summary(MentalHealthAnalysis)



ageMidValue\_summary <- summary(MentalHealthAnalysis$AgeMidValue)

gender\_table <- table(MentalHealthAnalysis$Gender)

occupation\_table <- table(MentalHealthAnalysis$Occupation)

growingStress\_table <- table(MentalHealthAnalysis$Growing\_Stress)

print("Summary for AgeMidValue:")

print(ageMidValue\_summary)

print("Frequency table for Gender:")

print(gender\_table)

print("Frequency table for Occupation:")

print(occupation\_table)

print("Frequency table for Growing\_Stress:")

print(growingStress\_table)

#Histogram:

|  |
| --- |
| library(ggplot2)  >  > ggplot(MentalHealthAnalysis, aes(x = AgeMidValue)) +  + geom\_histogram(binwidth = 1, fill = "blue", color = "black") +  + theme\_minimal() +  + labs(title = "Histogram of Age Values", x = "Age Mid Value", y = "Count")  Histogram-1.png |
|  |
| |  | | --- | | #Box Plots:  # Make sure ggplot2 is installed and loaded  library(ggplot2)  # Generate a box plot of AgeMidValue for each Occupation category  ggplot(MentalHealthAnalysis, aes(x = Occupation, y = AgeMidValue)) +  geom\_boxplot() +  theme\_light() +  labs(title = "Box Plot of Age by Occupation", x = "Occupation", y = "Age Mid Value") +  theme(axis.text.x = element\_text(angle = 45, hjust = 1)) # Rotate x-axis labels for readability | |

