Information Visualization Summer I

Class Quiz 4Assignment

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Answer:

Plot()

\* plot() is a fundamental function used for creating various types of graphs and visualizing data. It is highly versatile and can be used for scatter plots, line plots, histograms, and more.

**Example**

ibrary(tidyverse)

# tidyverse package is loaded

library(readxl)

# Readxl is used to read Excel files (.xlsx format).

file\_path <-"/Users/ajaykommineni/Downloads/SIPRI Military Expenditure Database.xlsx"

# file path is set to variable

data <- read\_excel(file\_path)

# reading file stored in variable

head(data)

# prints the top few rows of the data set

str(data)

# prints the structure

names(data)

# displays the column names

**Findings**

- military spending and GDP has a positive correlation. meaning countries with higher GDPs generally allocate more funds to defense.

#The plot reveals outliers that fall into two major categories: High Military Spending, High GDP

#Countries like the United States and China, where absolute spending is massive but remains a smaller percentage of GDP. High Military Spending, Low GDP – Nations like Saudi Arabia and Oman, where military expenditure constitutes a large share of GDP despite a moderate total economy.