Lab1

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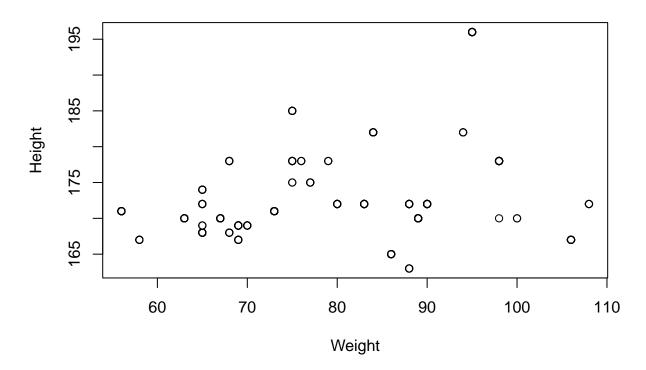
2023-02-10

```
df = read.csv("Absenteeism_at_work.csv", sep = ";", header = TRUE)
attach(df)
```

# Question 1

```
plot(Weight, Height, main = "Height VS Weight")
```

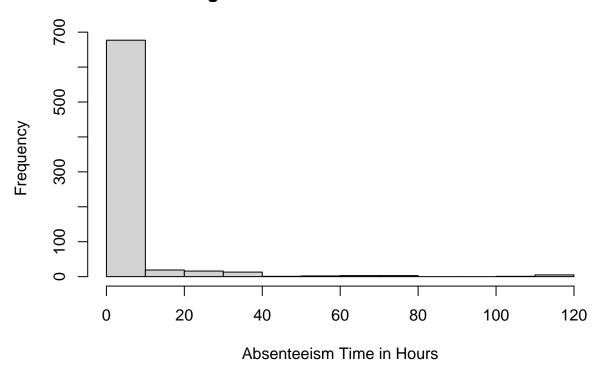
# **Height VS Weight**



This is a scatter plot of Height vs Weight to depict if there is a correlation of height with weight. The plot does not depict of any significance to suggest anything.

# Question 2

# **Historgram of Absenteeism Time in Hours**

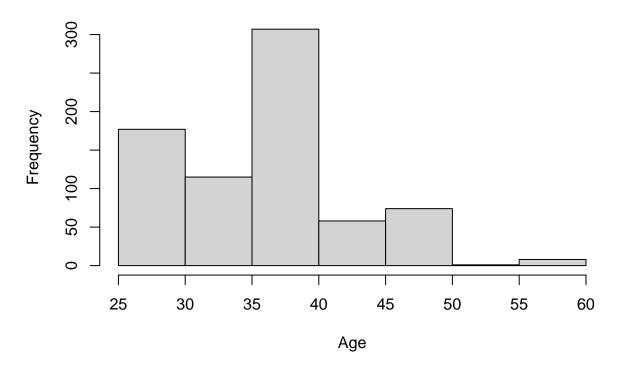


This is a histogram representing absenteeism time in hours. It displays a large skew on the histogram not being too useful to decipher any useful information.

# Question 3

hist(Age)

### **Histogram of Age**



This is a histogram displaying the age and the total number of each age group. The histogram is useful to depict useful information regarding what is the main age demographic in this data.

# Quesiton 4

```
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
## filter, lag

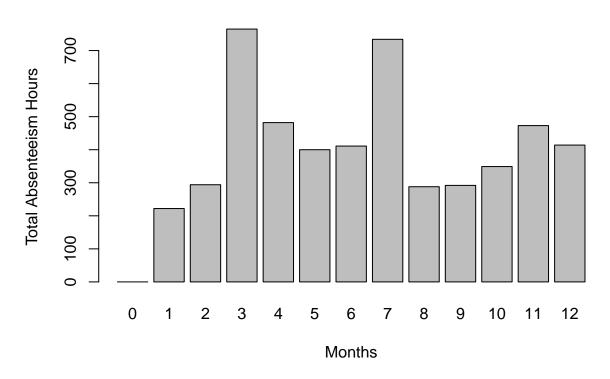
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union

df_summary <- df %>%
    group_by(Month.of.absence) %>%
    summarise(total_absenteeism_hours = sum(Absenteeism.time.in.hours))

barplot(df_summary$total_absenteeism_hours,
```

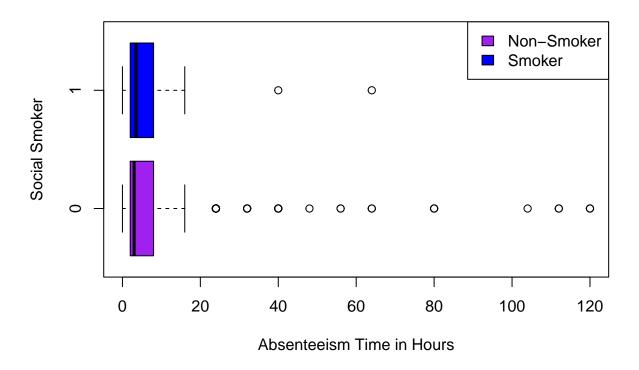
```
names.arg = df_summary$Month.of.absence,
xlab = "Months",
ylab = "Total Absenteeism Hours",
main = "Absent Hours of each Month")
```

#### **Absent Hours of each Month**



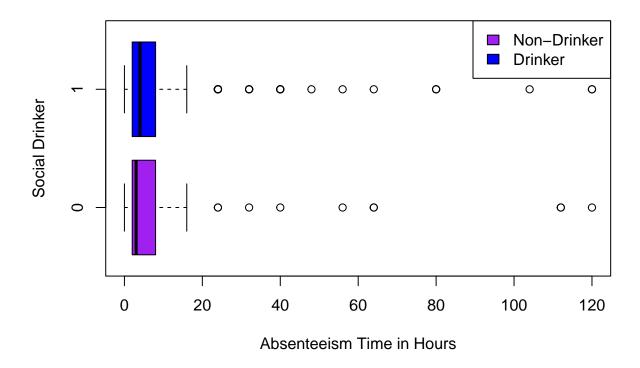
This is a barplot displaying the total absenteeism hours for each month. This plot is useful to depict useful information regarding which month has the most hours absent.

#### Question 5



This is a boxplot displaying the absenteeism time in hours between smokers and non-smokers. This plot is not very useful to depict any information as the outlier points skews the boxplot.

# Question 6



This is a boxplot displaying the absenteeism time in hours between drinkers and non-drinkers. This plot is not very useful to depict any information as the outlier points skews the boxplot.