ASSIGNMENT-IBM-1

SURYANASHU VERMA

2024-03-01

Data

Let's start by loading some data and displaying it:

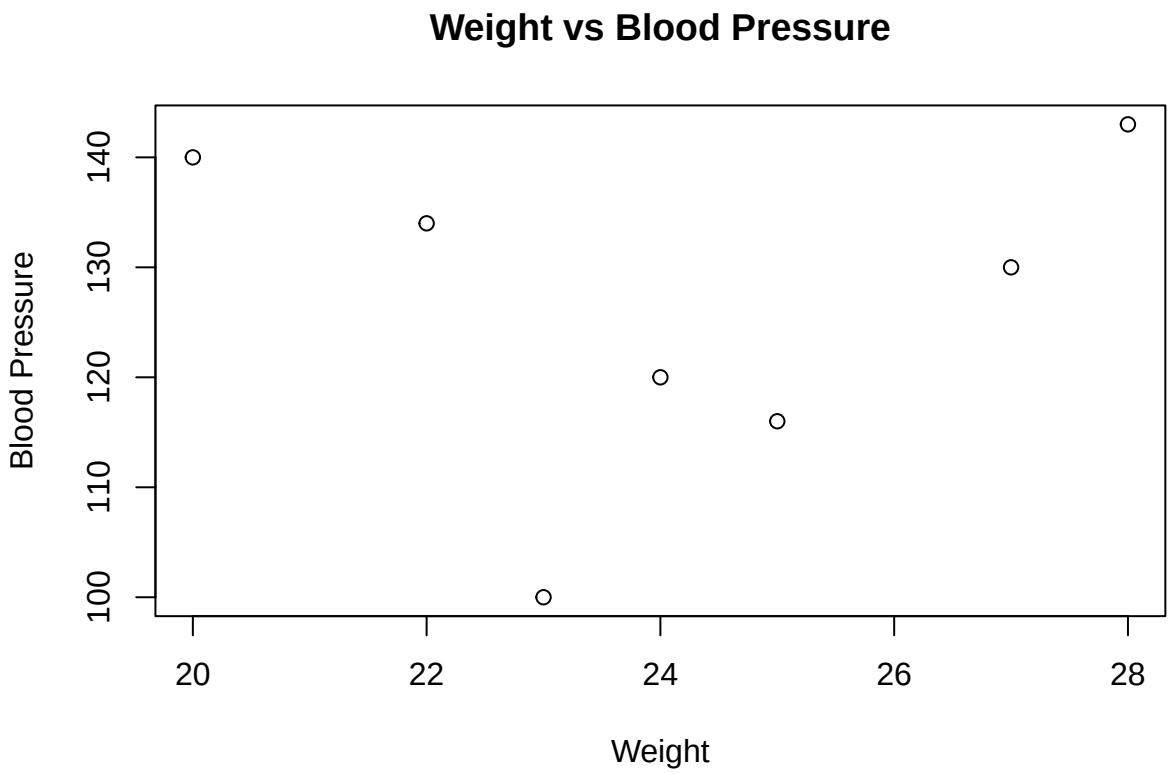
```
data <- data.frame(
  id = c(1, 2, 3, 4, 5, 6, 7),
  weight = c(20, 27, 24, 22, 23, 25, 28),
  bp = c(140, 130, 120, 134, 100, 116, 143),
  locality = c("urban", "rural", "urban", "urban", "rural", "rural", "urban"),
  smoking = c("no", "yes", "no", "yes", "yes", "no", "yes"),
  tumour = c("small", "small", "large", "small", "large", "small", "large")
)

head(data)
```

```
##   id weight  bp locality smoking tumour
## 1  1     20 140    urban      no  small
## 2  2     27 130    rural     yes  small
## 3  3     24 120    urban      no  large
## 4  4     22 134    urban     yes  small
## 5  5     23 100    rural     yes  large
## 6  6     25 116    rural      no  small
```

##Analysis

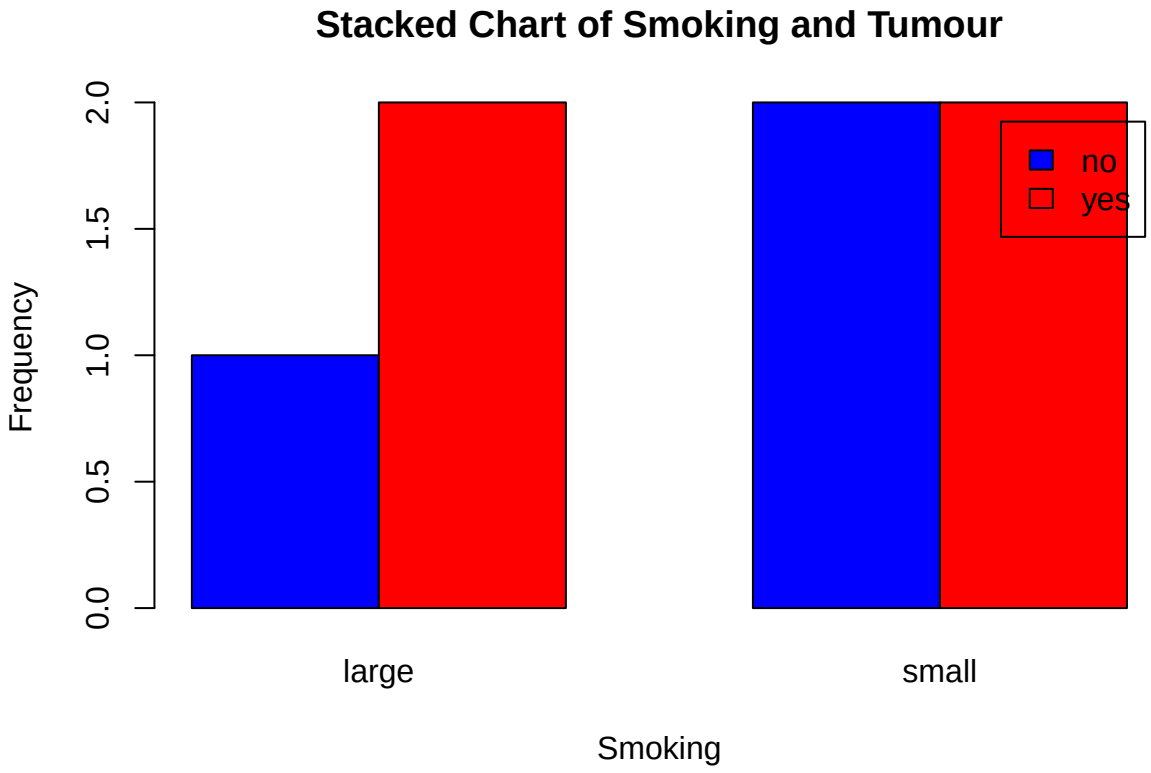
Now let's plot a graph between weight and blood pressure:

```
plot(data$weight, data$bp, xlab = "Weight", ylab = "Blood Pressure", main = "Weight vs Blood Pressure")
```



And create a stacked chart between smoking and tumour:

```
stacked_table <- table(data$smoking, data$tumour)
barplot(stacked_table, beside = TRUE, legend = TRUE, col = c("blue", "red"),
        main = "Stacked Chart of Smoking and Tumour", xlab = "Smoking", ylab = "Frequency")
```


Stacked Chart of Smoking and Tumour
Frequency
0.0
0.5
1.0
1.5
2.0
large
small
Smoking
no
yes