IT24100227

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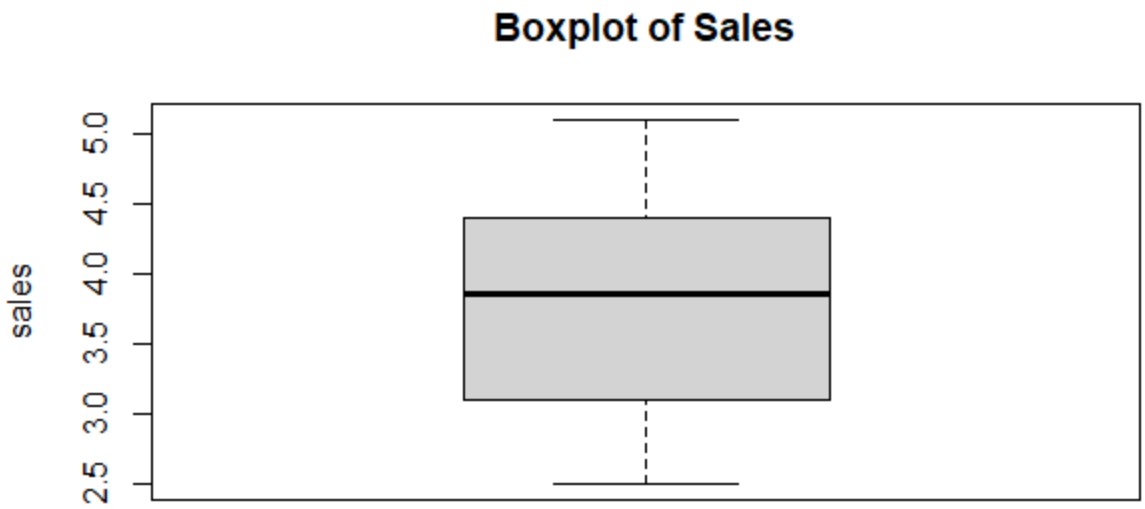
Lab 4

```r
setwd("C:\\Users\\it24100227\\Desktop\\Lab 04-20250819")

branch_data<-read.table("Exercise.txt",header=TRUE,sep=",")
fix(branch_data)
attach(branch_data)
str(branch_data)

boxplot(branch_data$Sales, main = "Boxplot of Sales",ylab= "sales")


quantile(branch_data$Advertising_X2)
summary(branch_data$Advertising_x2)
IQR(branch_data$Advertising_x2)

find_outliers <- function(x){
  q1 <- quantile(x, 0.25)
  q3 <- quantile(x, 0.75)
  IQR <- q3 - q1
  lower <- q1 - 1.5 * IQR
  upper <- q3 + 1.5 * IQR
  return(x[x < lower | x > upper])
}

find_outliers(branch_data$Years)
```






Data Editor

File Edit Help

| | Branch | Sales_X1 | Advertising_X2 | Years_X3 | var5 | var6 | var7 |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 3.4 | 120 | 4 | | | |
| 2 | 2 | 4.1 | 150 | 7 | | | |
| 3 | 3 | 2.8 | 90 | 3 | | | |
| 4 | 4 | 5 | 200 | 10 | | | |
| 5 | 5 | 3.7 | 110 | 5 | | | |
| 6 | 6 | 4.5 | 175 | 6 | | | |
| 7 | 7 | 3 | 95 | 2 | | | |
| 8 | 8 | 4.9 | 185 | 9 | | | |
| 9 | 9 | 3.2 | 105 | 4 | | | |
| 10 | 10 | 2.5 | 80 | 1 | | | |
| 11 | 11 | 3.9 | 130 | 5 | | | |
| 12 | 12 | 4.2 | 140 | 7 | | | |
| 13 | 13 | 2.7 | 100 | 3 | | | |
| 14 | 14 | 3.6 | 125 | 4 | | | |
| 15 | 15 | 4.8 | 190 | 8 | | | |
| 16 | 16 | 3.3 | 115 | 5 | | | |
| 17 | 17 | 4 | 135 | 6 | | | |
| 18 | 18 | 5.1 | 210 | 12 | | | |
| 19 | 19 | 3.8 | 145 | 6 | | | |