

DS210 Final Project Part II

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

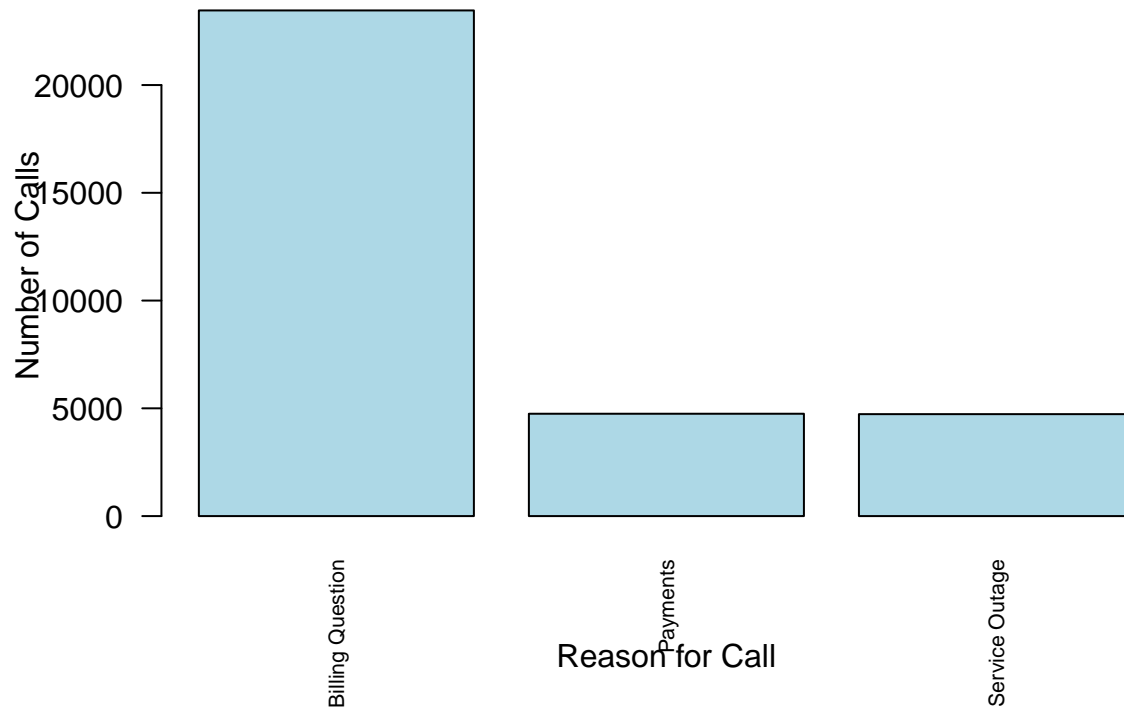
```
# Load in the data set
path_to_file <- "C:\\Users\\brach\\Downloads\\Call_Center (1).csv"
call_data = read.csv(path_to_file)

# Bar plot for the number of calls by Reason

# Calculate the number of calls for each Reason
calls_by_reason <- table(call_data$Reason)

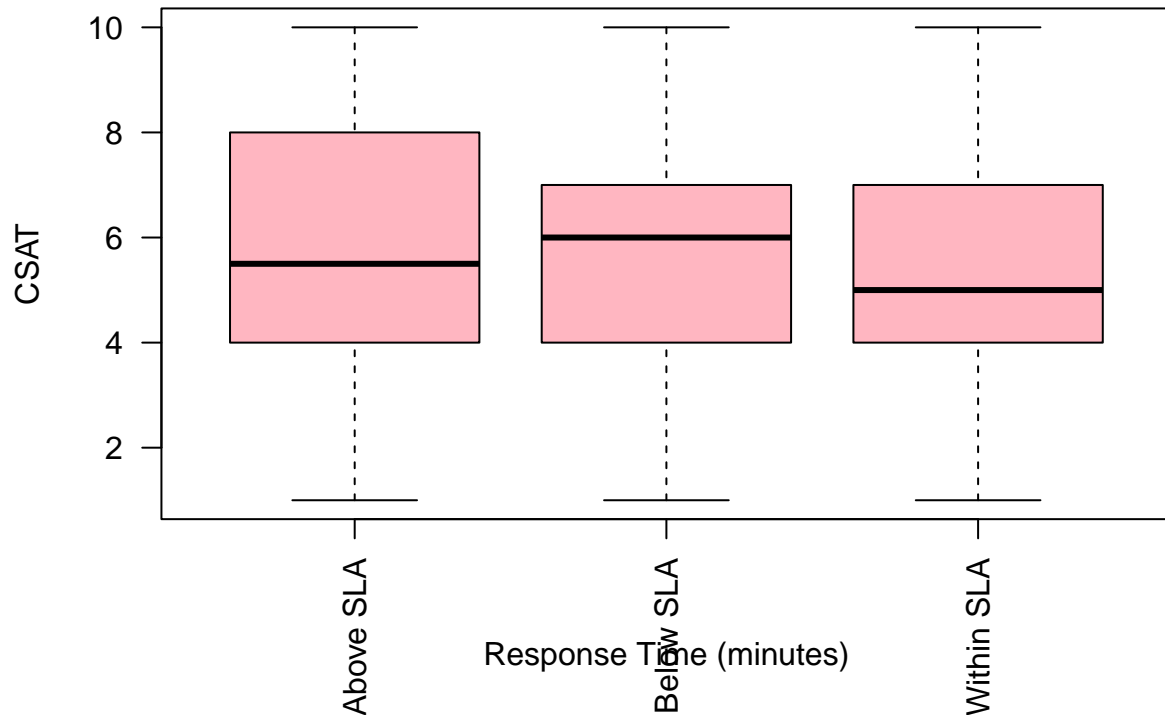
# Bar plot
bar_heights <- barplot(calls_by_reason,
  names.arg = names(calls_by_reason),
  main = "Number of Calls by Reason for Call",
  xlab = "Reason for Call",
  ylab = "Number of Calls",
  col = "lightblue",
  las = 2, # Rotate x-axis labels
  cex.names = 0.7) # Adjust size of the x-axis labels
```

Number of Calls by Reason for Call



```
# Boxplot for CSAT by Response Time  
  
# Create a box plot  
boxplot(Csat.Score ~ Response.Time, data = call_data,  
        main = "CSAT by Response Time",  
        xlab = "Response Time (minutes)",  
        ylab = "CSAT",  
        col = "lightpink",  
        las = 2)
```

CSAT by Response Time



```
# Bar Plot of Number of Calls per State

# Count the number of calls per state
calls_by_state <- table(call_data$State)

# Sort by ascending order
sorted_calls <- sort(calls_by_state, increasing = TRUE)

# Create a bar plot
barplot(sorted_calls,
        main = "Number of Calls by State",
        xlab = "State",
        ylab = "Number of Calls",
        col = "lightgreen",
        las = 2,
        cex.names = 0.8)
```

Number of Calls by State

