IT24101556

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Probability and Statistics - IT2120

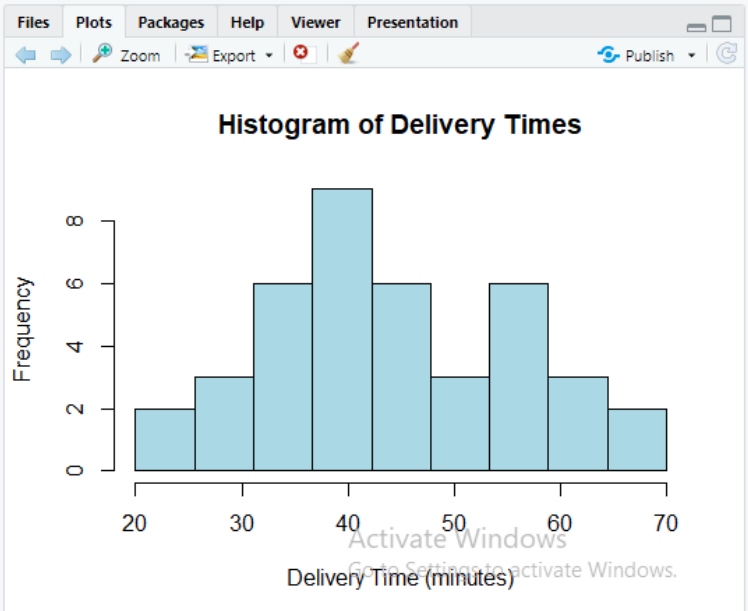
Lab05.R*

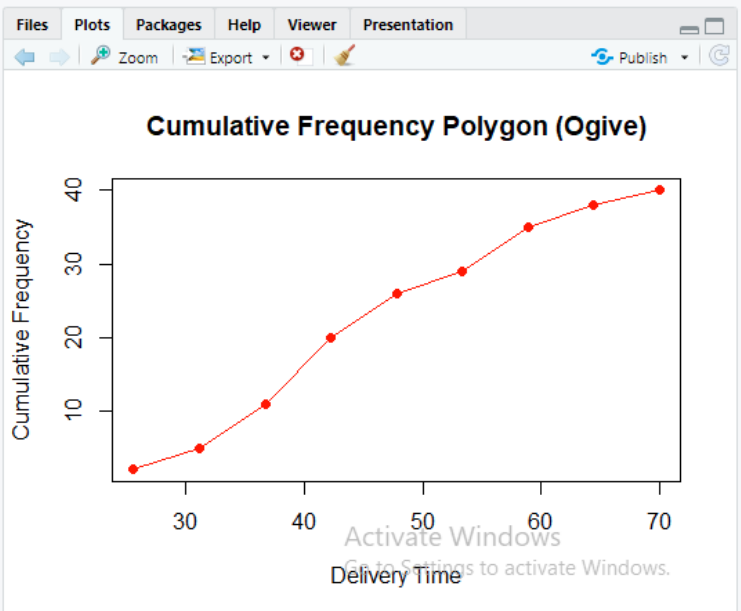
Source on Save | Run | Source

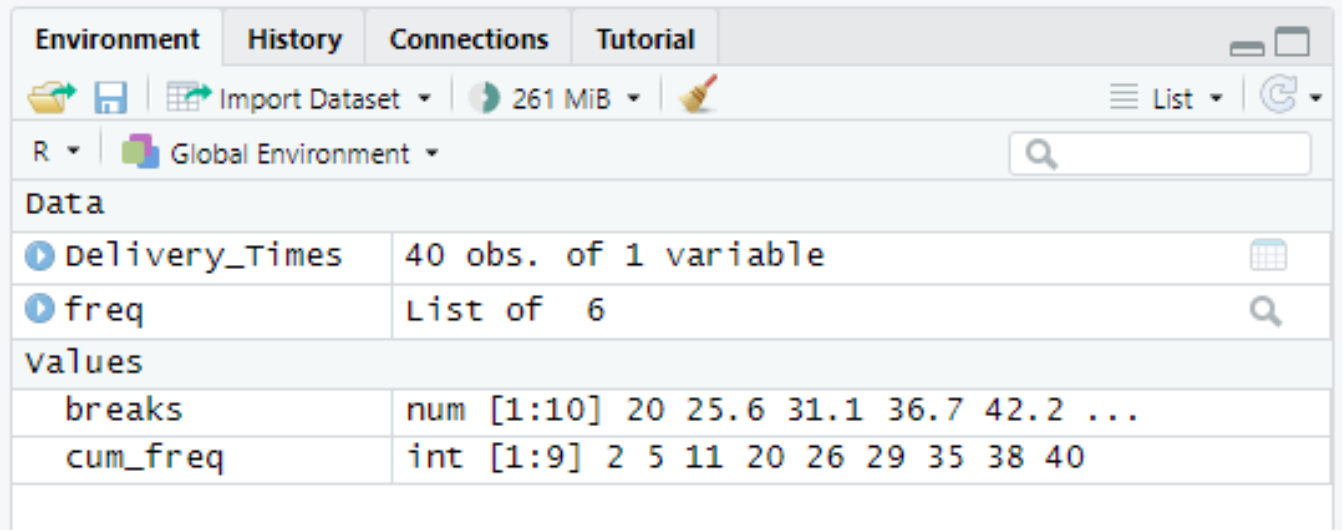
```r
setwd("C:\\Users\\it24101556\\Desktop\\IT24101556")
getwd()

#01
Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
head(Delivery_Times)

#02
breaks <- seq(20, 70, length.out = 10)
hist(Delivery_Times$Delivery_Time_.minutes.,
     breaks = breaks,
     right = FALSE,
     col = "lightblue",
     main = "Histogram of Delivery Times",
     xlab = "Delivery Time (minutes)",
     ylab = "Frequency",
     border = "black")

#04
freq <- hist(Delivery_Times$Delivery_Time_.minutes.,
             breaks = breaks,
             right = FALSE,
             plot=FALSE)

cum_freq <-cumsum(freq$counts)

plot(breaks[-1],
     cum_freq,
     type = 'o',
     pch = 16,
     col = "red",
     main = "Cumulative Frequency Polygon (Ogive)",
     xlab = "Delivery Time",
     ylab = "Cumulative Frequency")
```

34:36 (Top Level) R Script

```
[1] "C:/Users/it24101556/Desktop/IT24101556"
> #01
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE)
> head(Delivery_Times)
  Delivery_Time_.minutes.
1                      34
2                      54
3                      47
4                      29
5                      39
6                      61
> #02
> breaks <- seq(20, 70, length.out = 10)
> hist(Delivery_Times$Delivery_Time_.minutes.,
+      breaks = breaks,
+      right = FALSE,
+      col = "lightblue",
+      main = "Histogram of Delivery Times",
+      xlab = "Delivery Time (minutes)",
+      ylab = "Frequency",
+      border = "black")
> #04
> freq <- hist(Delivery_Times$Delivery_Time_.minutes.,
+              breaks = breaks,
+              right = FALSE,
+              plot=FALSE)
> cum_freq <-cumsum(freq$counts)
> plot(breaks[-1],
+      cum_freq,
+      type = 'o',
+      pch = 16,
+      col = "red",
+      main = "Cumulative Frequency Polygon (Ogive)",
+      xlab = "Delivery Time",
+      ylab = "Cumulative Frequency")
```






Environment
History
Connections
Tutorial
Import Dataset
261 MiB
List
R
Global Environment
Data
Delivery_Times
40 obs. of 1 variable
freq
List of 6
Values
breaks
num [1:10] 20 25.6 31.1 36.7 42.2 ...
cum_freq
int [1:9] 2 5 11 20 26 29 35 38 40