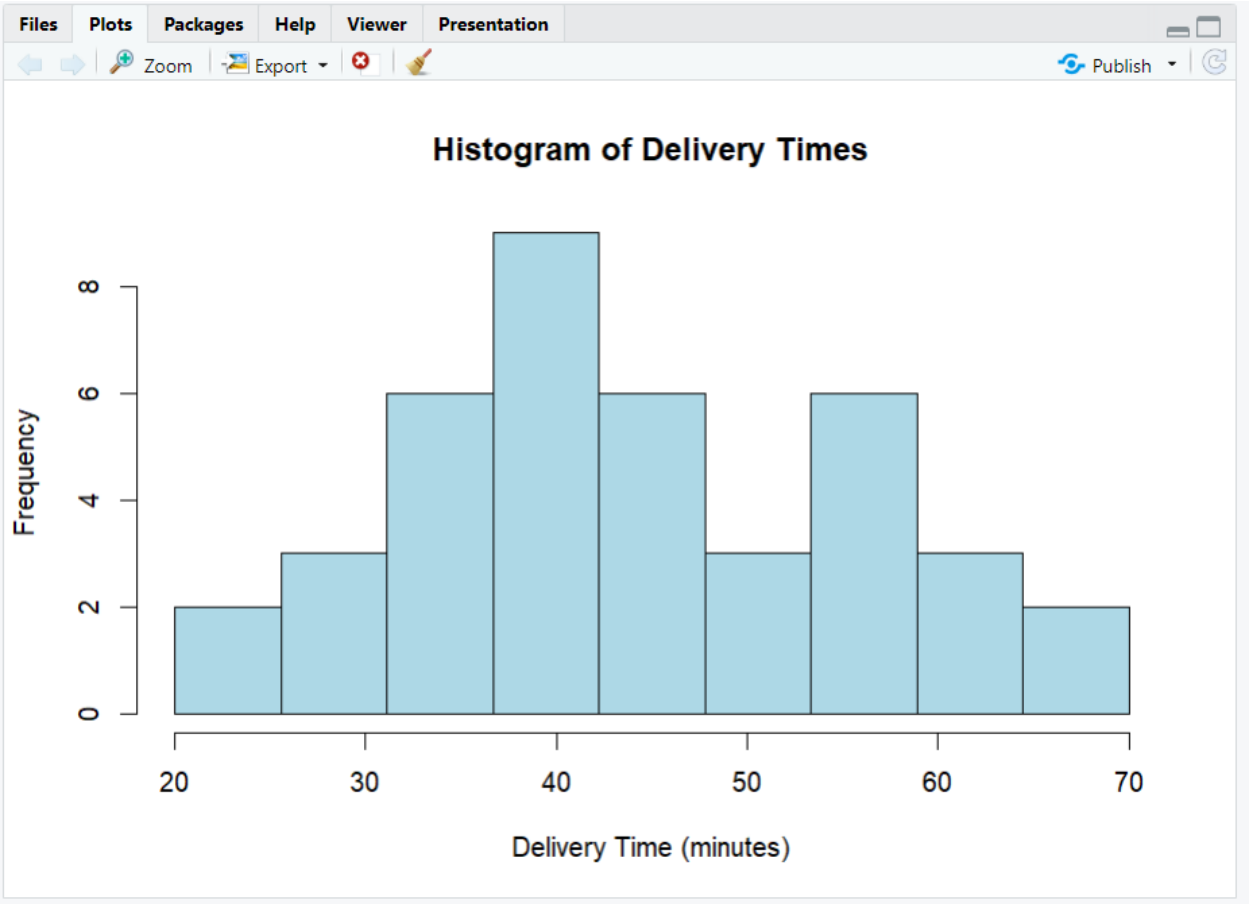
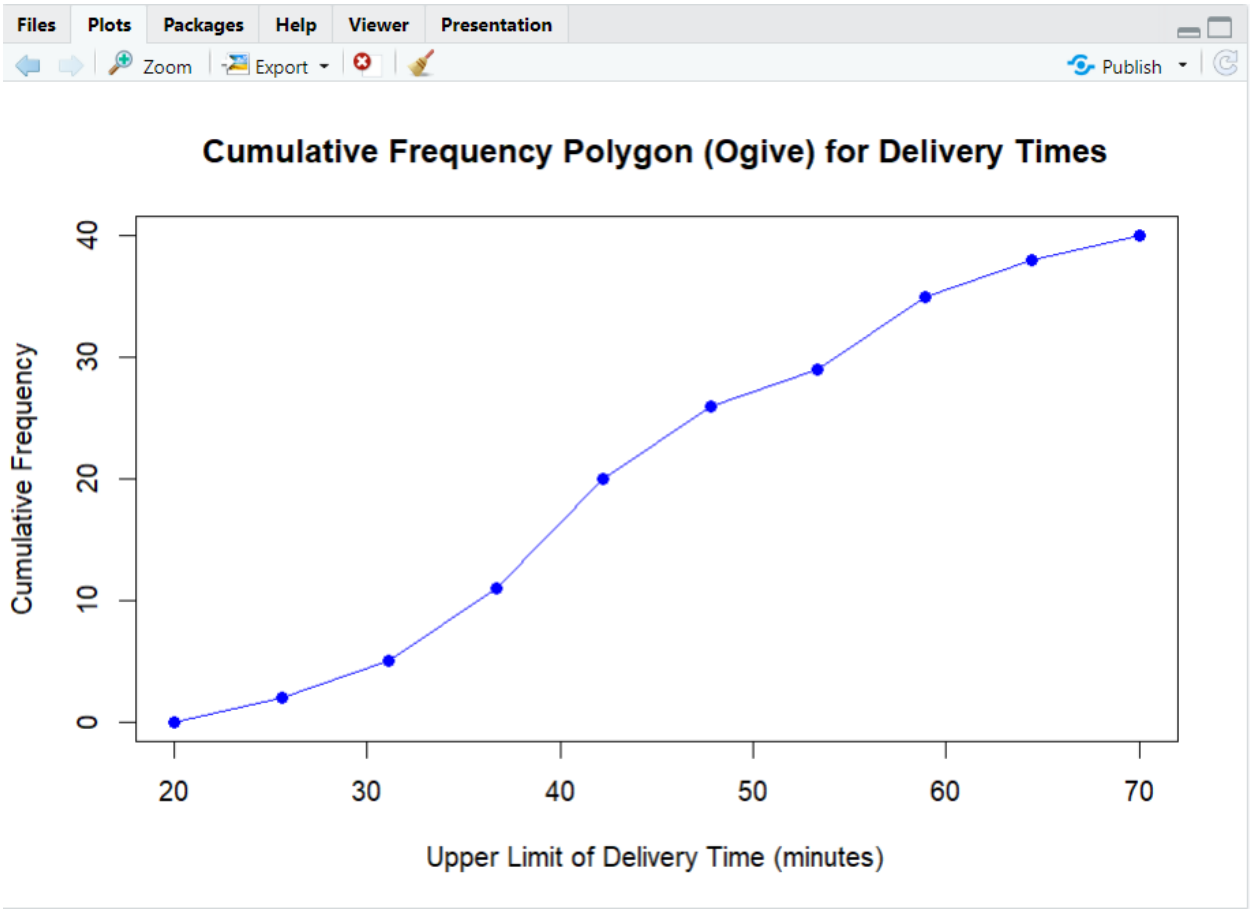
Data Editor

File Edit Help

	Delivery_Time_.minutes.	var2	var3	var4	var5
1	34				
2	54				
3	47				
4	29				
5	39				
6	61				
7	20				
8	40				
9	57				
10	36				
11	38				
12	44				
13	59				
14	38				
15	40				
16	40				
17	67				
18	66				
19	55				





Console | Terminal | Background Jobs

R 4.5.1 · C:/Users/MSI/Desktop/R/

```
> ##Exercise
> setwd("C:\\Users\\MSI\\Desktop\\R")
> getwd()
[1] "C:/Users/MSI/Desktop/R"
> Delivery_Times <- read.table("Exercise - Lab 05.txt", header = TRUE, sep = ",")
> fix(Delivery_Times)
> head(Delivery_Times)
  Delivery_Time_.minutes.
1                      34
2                      54
3                      47
4                      29
5                      39
6                      61
> str(Delivery_Times)
'data.frame':   40 obs. of  1 variable:
 $ Delivery_Time_.minutes.: num  34 54 47 29 39 61 20 40 57 36 ...
> breaks_seq <- seq(20, 70, length.out = 10)  # Breaks: 20, 25.5556, ..., 70
> hist(Delivery_Times$Delivery_Time_.minutes., breaks = breaks_seq, right = FALSE,
+      main = "Histogram of Delivery Times", xlab = "Delivery Time (minutes)",
+      ylab = "Frequency", col = "lightblue", border = "black")
> # Optional: Get frequency table from hist for verification
> hist_info <- hist(Delivery_Times$Delivery_Time_.minutes., breaks = breaks_seq, right = FALS
E, plot = FALSE)
> freq_table <- data.frame(Intervals = paste("[", round(breaks_seq[-length(breaks_seq)], 2),
", ", round(breaks_seq[-1], 2), ")", sep = ""),
+                          Frequency = hist_info$counts)
> print(freq_table)
      Intervals Frequency
1    [20, 25.56)         2
2 [25.56, 31.11)         3
3 [31.11, 36.67)         6
4 [36.67, 42.22)         9
5 [42.22, 47.78)         6
6 [47.78, 53.33)         3
7 [53.33, 58.89)         6
8 [58.89, 64.44)         3
9    [64.44, 70)         2
```

```
> # Compute cumulative frequencies
> freq <- hist_info$counts
> cum_freq <- cumsum(freq)
> # Create 'new' for ogive: starts at 0, then cumulative up to previous class
> ogive_y <- c(0, cum_freq)
> # Upper bounds are the breaks
> upper_bounds <- breaks_seq
> # Plot the ogive
> plot(upper_bounds, ogive_y, type = "o", pch = 19, col = "blue",
+      main = "Cumulative Frequency Polygon (Ogive) for Delivery Times",
+      xlab = "Upper Limit of Delivery Time (minutes)", ylab = "Cumulative Frequency",
+      ylim = c(0, max(ogive_y)))
> abline(h = 0, col = "gray")
>
```