02-Asignacion.R

Usuario

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```
#Tarea 2
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library(plyr)
accidentes <- c (0,1,0,2,2,1,4,3,0,1,5,1,2,3,4,0,1,1,3,4)
acc <- count(accidentes)
acc # vemos la primera BD credas con solo dos columnas
```
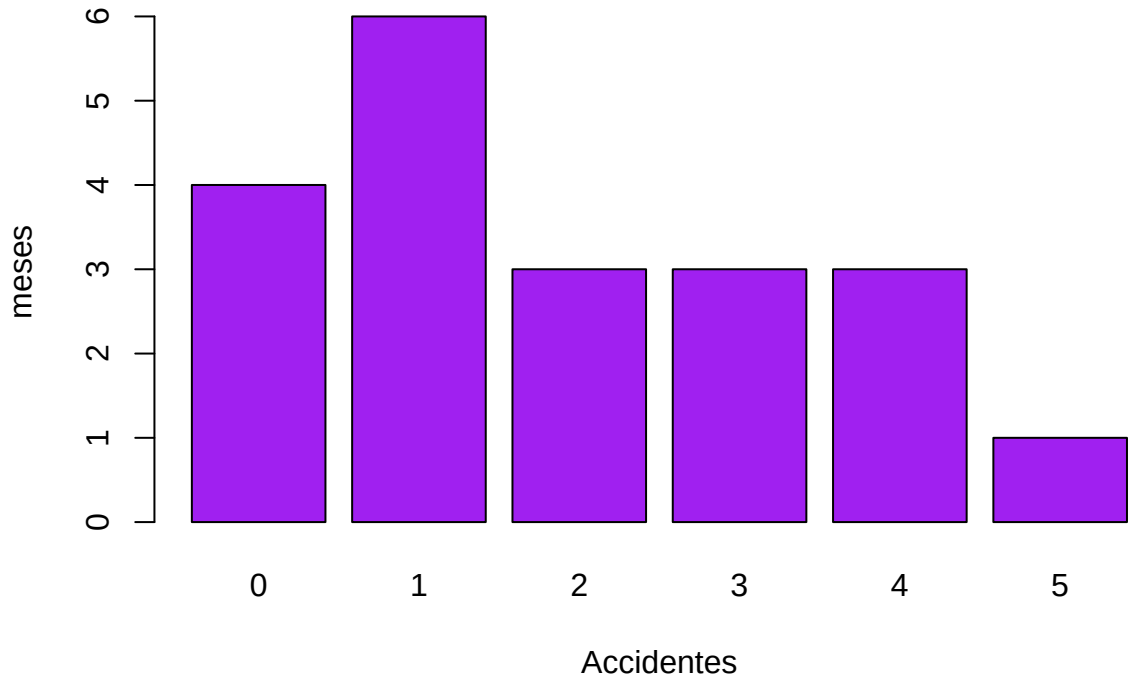

```
##   x freq
## 1 0    4
## 2 1    6
## 3 2    3
## 4 3    3
## 5 4    3
## 6 5    1
```

```
# Agregar una nueva columna a la BD "acc" y agregar la formula
acc$rf <- acc$freq/sum(acc$freq)*100
acc
```

```
##   x freq rf
## 1 0    4 20
## 2 1    6 30
## 3 2    3 15
## 4 3    3 15
## 5 4    3 15
## 6 5    1  5
```

```
barplot(acc$freq, names.arg = acc$x, xlab = "Accidentes",
        ylab = "meses", col = "purple")
```



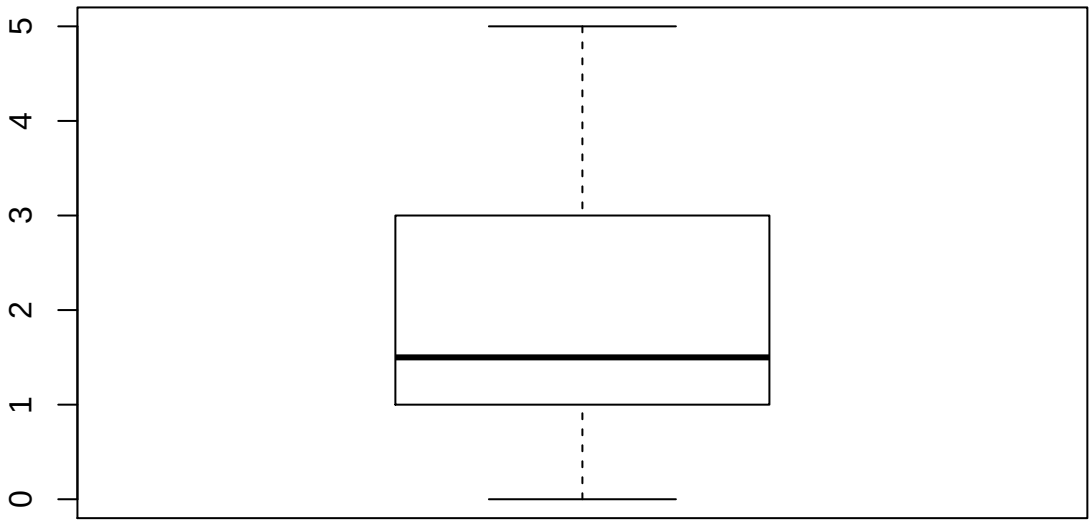

```
mean(accidentes)
```

```
## [1] 1.9
```

```
sum(accidentes)
```

```
## [1] 38
```

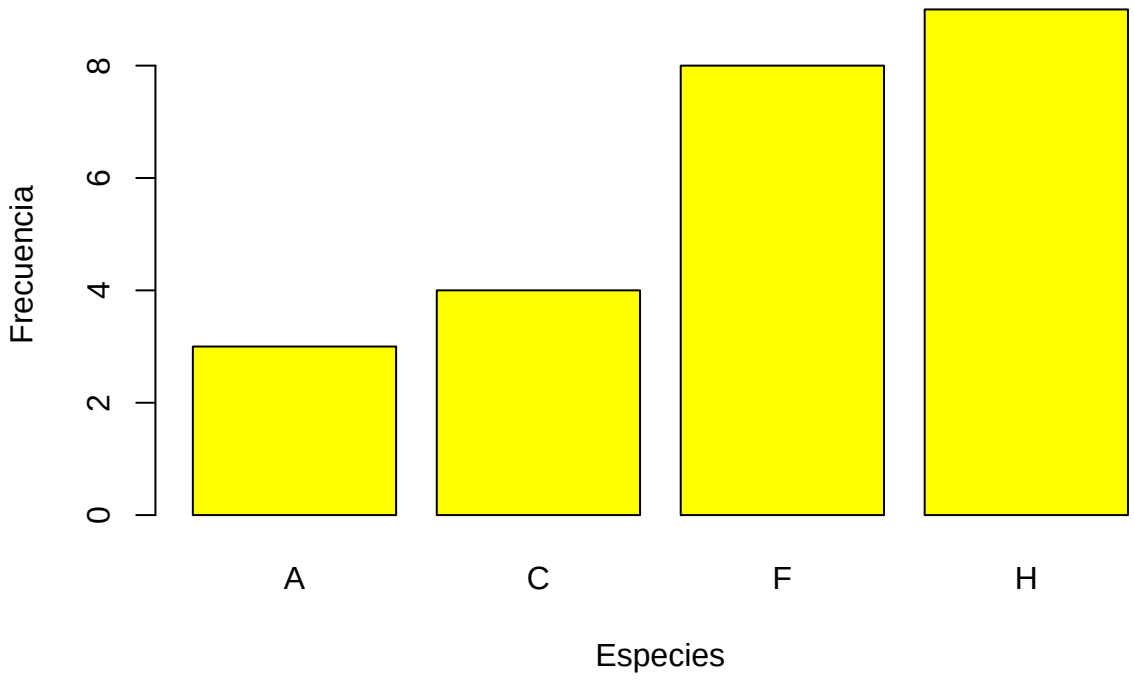
```
boxplot(accidentes)
```




```
# Ejercicio 2 ------------------------------------------------------------

especies <- c("F", "H", "F", "C", "F", "A", "H",
              "F", "H", "C", "A", "C", "F", "H",
              "H", "H", "F", "H", "A", "C", "F",
              "H", "H", "F")
.sp <- count(especies)
.sp$rf <- .sp$freq/sum(.sp$freq)*100
.sp
```

```
##   x freq       rf
## 1 A    3 12.50000
## 2 C    4 16.66667
## 3 F    8 33.33333
## 4 H    9 37.50000
```

```
barplot(.sp$freq, names.arg = .sp$x, col = "yellow",
        ylab = "Frecuencia", xlab = "Especies")
```




```
# Ejercicio 3 ------------------------------------------------------------

library(repmis)
conjunto <- source_data("https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?dl=1")
```

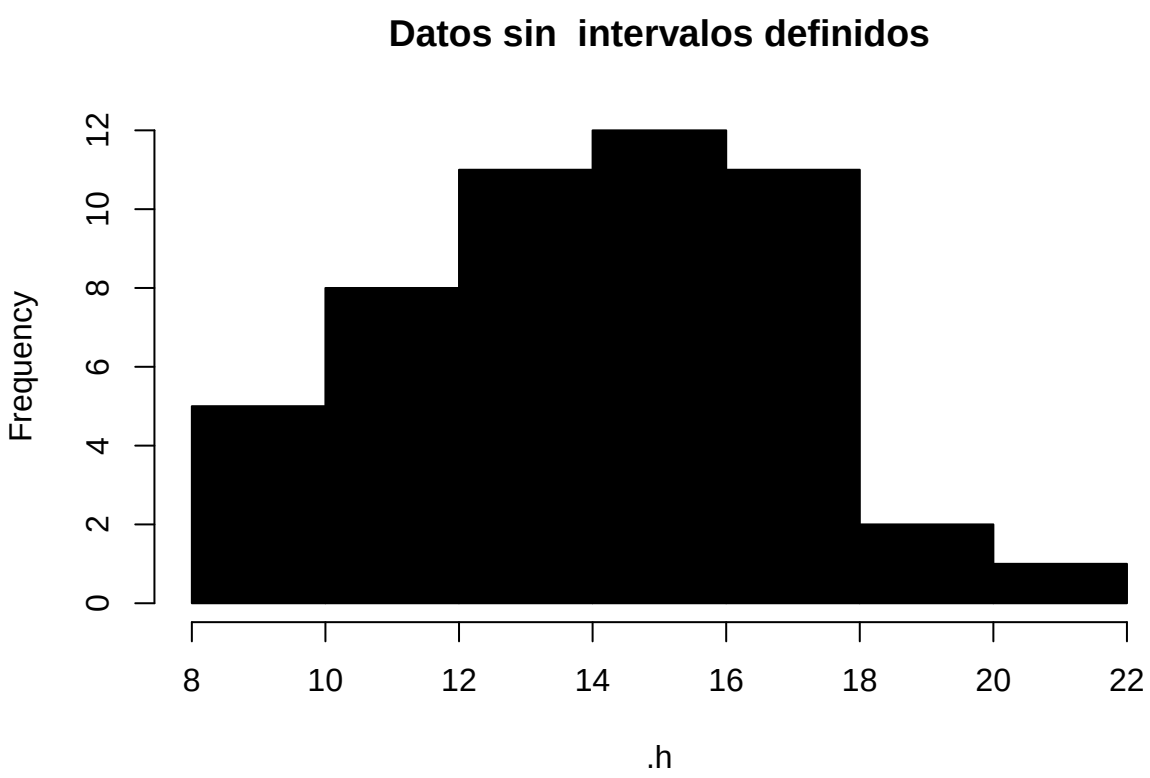
```
## Downloading data from: https://www.dropbox.com/s/hmsf07bbayxv6m3/cuadro1.csv?dl=1
```

```
## SHA-1 hash of the downloaded data file is:
## 2bdde4663f51aa4198b04a248715d0d93498e7ba
```

```
# Enconmtrar la frecuencia de las variables vecinos y especies
.vc <- table(conjunto$Vecinos, conjunto$Especie)
.vc1 <- addmargins(as.table(.vc))


# Ejercicio 4 ------------------------------------------------------------
.h <- conjunto$Altura
range(.h)
```

```
## [1]  8.47 21.46
```

```
hist(.h, main = "Datos sin  intervalos definidos", col = "black")
```




```
Intervalo <-seq(7.5, 22.5, by=5)
Intervalo
```

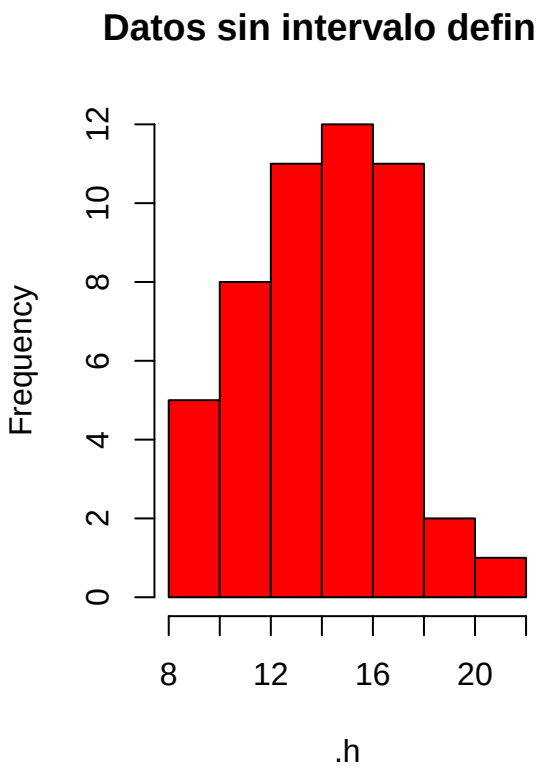
```
## [1]  7.5 12.5 17.5 22.5
```

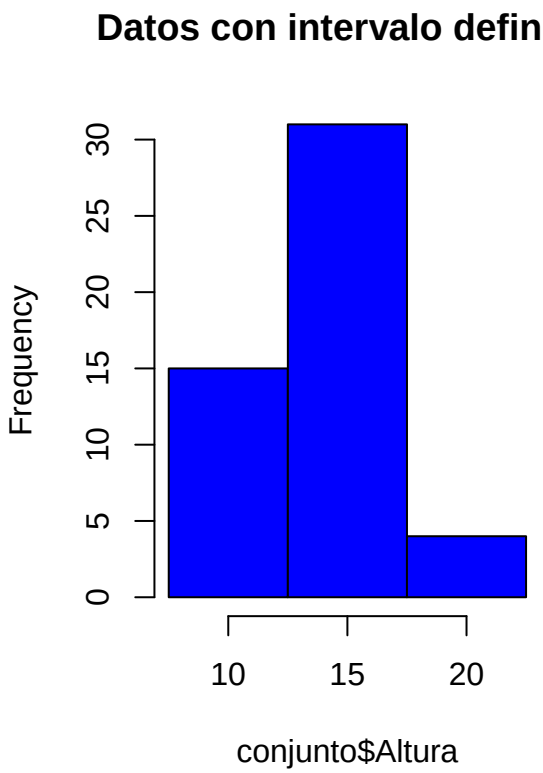
```
h.table <-cut(.h, Intervalo)
table(h.table)
```

```
## h.table
##  (7.5,12.5] (12.5,17.5] (17.5,22.5]
##          15          31           4
```

```
hist(conjunto$Altura, breaks = Intervalo, main = "Datos con intervalo definido", col = "green")
```


```
h.prop <- cbind(table(h.table))
h.per <- round(prop.table(h.prop)*100,2)

# Ejercicio 5 ------------------------------------------------------------

par(mfrow=c(1,2))
hist(.h, main = "Datos sin intervalo definido", col = "red")
hist(conjunto$Altura, breaks = Intervalo, main = "Datos con intervalo definido", col ="blue")
```






```
par(mfrow=c(1,1))
```