Tablas de frecuencia

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Lectura de la matriz

```
data(iris)
```

Tabla de frecuencias absolutas

Conversión de la matriz a data frame, reconocimiento de la variable y mostrar la tabla de **frecuencias** absolutas de la variable *Petal.length*.

```
tabla_PL<-as.data.frame(table(PL = iris$Petal.Length))
tabla_PL</pre>
```

```
##
       PL Freq
## 1
        1
             1
## 2
      1.1
             1
## 3
      1.2
             2
      1.3
             7
      1.4
## 5
             13
            13
## 6
      1.5
      1.6
             7
## 8
      1.7
## 9
      1.9
## 10
        3
             1
## 11 3.3
## 12 3.5
             2
## 13 3.6
## 14 3.7
## 15 3.8
## 16 3.9
             3
## 17
             5
## 18 4.1
## 19 4.2
## 20 4.3
             2
## 21 4.4
             4
## 22 4.5
             8
## 23 4.6
             3
## 24 4.7
```

```
## 25 4.8
## 26 4.9
             5
## 27
        5
## 28 5.1
             8
## 29 5.2
             2
## 30 5.3
             2
## 31 5.4
## 32 5.5
             3
## 33 5.6
             6
## 34 5.7
## 35 5.8
             3
## 36 5.9
             2
## 37
             2
        6
## 38 6.1
## 39 6.3
## 40 6.4
## 41 6.6
             1
## 42 6.7
## 43 6.9
```

Tabla de frecuencia absoluta, absoluta acumulada, relativa y relativa acumulada

```
##
      PL Freq freqAc
                        Rel RelAc
## 1
            1
                    1 0.007 0.007
## 2 1.1
                    2 0.007 0.013
             1
## 3
     1.2
            2
                    4 0.013 0.027
## 4 1.3
            7
                   11 0.047 0.073
## 5
     1.4
                   24 0.087 0.160
            13
## 6
     1.5
            13
                   37 0.087 0.247
## 7
     1.6
            7
                   44 0.047 0.293
## 8 1.7
            4
                   48 0.027 0.320
## 9 1.9
            2
                   50 0.013 0.333
## 10
       3
                   51 0.007 0.340
            1
## 11 3.3
            2
                   53 0.013 0.353
## 12 3.5
                   55 0.013 0.367
## 13 3.6
                   56 0.007 0.373
            1
## 14 3.7
            1
                   57 0.007 0.380
## 15 3.8
                   58 0.007 0.387
            1
## 16 3.9
                   61 0.020 0.407
## 17
                   66 0.033 0.440
       4
            5
## 18 4.1
            3
                   69 0.020 0.460
## 19 4.2
            4
                  73 0.027 0.487
## 20 4.3
                  75 0.013 0.500
## 21 4.4
                  79 0.027 0.527
```

```
## 22 4.5
                 87 0.053 0.580
## 23 4.6
           3
                 90 0.020 0.600
## 24 4.7
                95 0.033 0.633
## 25 4.8
                99 0.027 0.660
          4
## 26 4.9
          5
                104 0.033 0.693
## 27
      5
          4
                108 0.027 0.720
## 28 5.1
          8 116 0.053 0.773
## 29 5.2
          2 118 0.013 0.787
## 30 5.3
           2
                120 0.013 0.800
## 31 5.4
               122 0.013 0.813
           2
## 32 5.5
          3
                125 0.020 0.833
## 33 5.6
          6
                131 0.040 0.873
## 34 5.7
           3
                134 0.020 0.893
## 35 5.8
          3 137 0.020 0.913
## 36 5.9
          2
               139 0.013 0.927
## 37
      6
          2
                141 0.013 0.940
## 38 6.1
           3
               144 0.020 0.960
## 39 6.3
               145 0.007 0.967
## 40 6.4
               146 0.007 0.973
         1
## 41 6.6
           1
               147 0.007 0.980
           2
## 42 6.7
                149 0.013 0.993
## 43 6.9
                150 0.007 1.000
```

Construcción de los intervalos de clase

```
Petal.length Freq
## 1 (0.994,1.74]
                    48
## 2 (1.74,2.48]
## 3 (2.48,3.21]
                     1
## 4
     (3.21, 3.95]
                    10
## 5 (3.95,4.69]
                    29
## 6 (4.69,5.43]
                    32
                    22
## 7 (5.43,6.16]
## 8 (6.16,6.91]
```

Construcción de la tabla de frecuencias absolutas, frecuencia acumulada, reltiva y relativa acumulada.

```
Petal.length Freq freqAc Rel RelAc
## 1 (0.994,1.74] 48
                        48 0.320 0.320
## 2 (1.74,2.48] 2
                        50 0.013 0.333
## 3 (2.48,3.21] 1
                        51 0.007 0.340
## 4 (3.21,3.95] 10
                        61 0.067 0.407
## 5 (3.95,4.69] 29
                        90 0.193 0.600
## 6 (4.69,5.43] 32
                       122 0.213 0.813
## 7 (5.43,6.16] 22
                       144 0.147 0.960
                       150 0.040 1.000
## 8 (6.16,6.91]
```

Organización visual de la tabla.

se abre la libraría knitr

```
library(knitr)
```

kable(tabla)

Petal.length	Freq	freqAc	Rel	RelAc
(0.994, 1.74]	48	48	0.320	0.320
(1.74, 2.48]	2	50	0.013	0.333
(2.48, 3.21]	1	51	0.007	0.340
(3.21, 3.95]	10	61	0.067	0.407
(3.95, 4.69]	29	90	0.193	0.600
(4.69, 5.43]	32	122	0.213	0.813
(5.43, 6.16]	22	144	0.147	0.960
(6.16, 6.91]	6	150	0.040	1.000