

# EPM's Assets Maintenance - Descriptive Analysis

Team 74 - DS4A by Correlation1

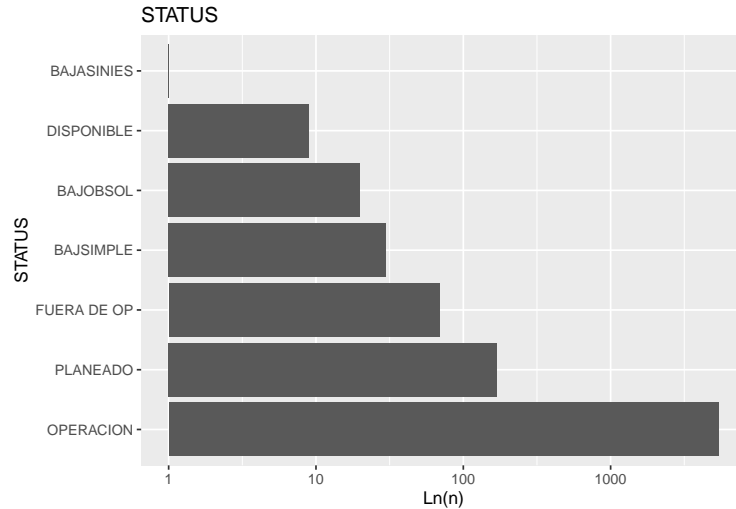


## Dataset: activos.csv

This dataset contains 5699 rows and 11 columns. In order to get a deeper understanding of the variables, it is also important to see how many values exist for each column.

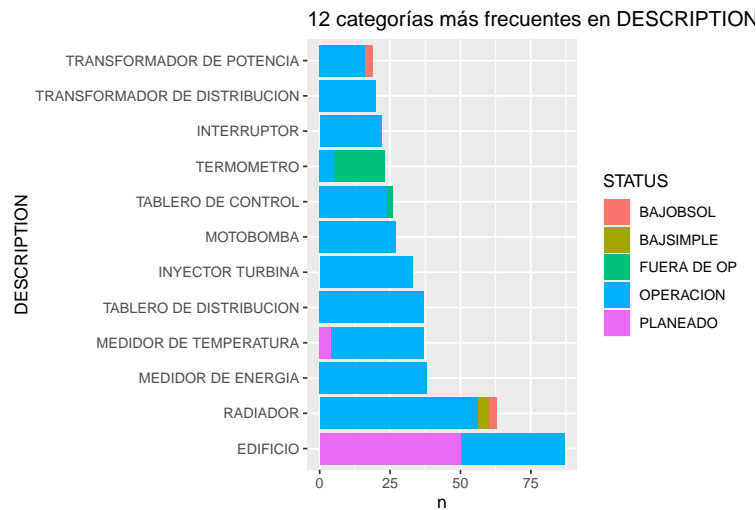
```
## Rows: 1
## Columns: 11
## $ ASSETNUM      <int> 5699
## $ DESCRIPTION   <int> 4675
## $ ASSETTAG      <int> 1792
## $ LOCATION      <int> 1450
## $ SLXJDETECNICO <int> 5603
## $ INSTALLDATE   <int> 420
## $ STATUS        <int> 7
## $ SITEID        <int> 1
## $ PRIORITY      <int> 4
## $ CLASSSTRUCTUREID <int> 187
## $ CLASSSTRUCTURE <int> 186
```

Since **ASSETNUM** variable has the same number of distinct values as the whole dataset has rows, it could be taken as an indicator, apparently a number of seven digits, *e.g.* it is not of our analytic interest by now. The Variable **SITUATED** only has 1 value, *i.e.* it is a constant, while the **STATUS** variable has 7 different values, which makes it of particular interest:

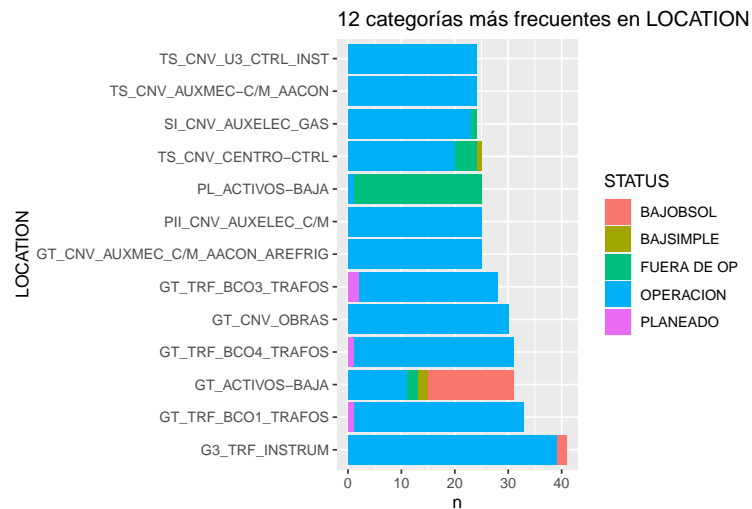


In the **STATUS** variable, the category **OPERACION** is the most frequent, followed by **PLANEADO**. It is important to stress that the scale of the frequency have been transformed through a logarithmic function. This was done because the first category was far more frequent than the second one, so the use of a typical scale would make harder to see the remaining categories' relevance.

Despite the high number of unique values in variable **DESCRIPTION**, the highest 12 categories were retrieved for the next plot, and then crossed versus **STATUS**:



Recalling that this graphic is built just with the 12 more important categories of the variable in **DESCRIPTION**, the category **OPERACION** seems to be the most important. The category **PLANEADO** exists only in two categories of the variable **DESCRIPTION**: **EDIFICIO** and barely in **MEDIDOR DE TEMPERATURA**.



According to the data dictionary, ASSETTAG is an index variable. Above it can be seen that there are no accumulations.

