## Projet Analyse de Donnée

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## 2024-11-29

## R Markdown

Chargement du jeux de donnée:

```
##
       T1_1H_R1
                            T1_2H_R1
                                               T1_3H_R1
                                                                    T1_4H_R1
##
    Min.
           :-3.58436
                         Min.
                                :-4.3034
                                                    :-2.26607
                                                                        :-2.56731
    1st Qu.:-0.22978
                         1st Qu.:-0.1404
                                            1st Qu.:-0.28249
                                                                 1st Qu.:-0.42895
##
    Median :-0.03631
                        Median: 0.1420
                                            Median :-0.05927
                                                                Median: 0.16867
##
    Mean
            :-0.02951
                         Mean
                                : 0.1767
                                            Mean
                                                    : 0.04103
                                                                Mean
                                                                        : 0.05281
    3rd Qu.: 0.12204
                         3rd Qu.: 0.3904
                                            3rd Qu.: 0.15839
                                                                 3rd Qu.: 0.44483
##
    Max.
            : 5.06654
                                : 7.2821
                                                    : 6.61788
                         Max.
                                            Max.
                                                                Max.
                                                                        : 6.87671
       T1 5H R1
                           T1 6H R1
##
                                              T2_1H_R1
                                                                   T2 2H R1
    {\tt Min.}
##
           :-5.5106
                       Min.
                               :-2.9759
                                           Min.
                                                  :-4.30401
                                                               Min.
                                                                       :-4.5825
    1st Qu.:-0.4788
                        1st Qu.:-0.6124
                                           1st Qu.:-0.43935
                                                                1st Qu.:-0.9932
##
    Median :-0.1984
                       Median :-0.3724
                                           Median: 0.13065
                                                               Median: 0.3289
##
    Mean
            :-0.1585
                       Mean
                               :-0.2416
                                           Mean
                                                  : 0.06039
                                                               Mean
                                                                       : 0.4714
##
    3rd Qu.: 0.2077
                       3rd Qu.: 0.2413
                                           3rd Qu.: 0.46011
                                                                3rd Qu.: 1.9464
                                                               Max.
##
    Max.
            : 5.8582
                       Max.
                               : 4.1009
                                                  : 8.66345
                                                                       : 8.7483
                                           Max.
       T2_3H_R1
                           T2_4H_R1
                                                                    T2_6H_R1
##
                                                T2_5H_R1
                                                     :-5.8017
                                                                        :-5.6784
##
    Min.
           :-6.6293
                       Min.
                               :-5.813548
                                             Min.
                                                                Min.
##
    1st Qu.:-2.0451
                        1st Qu.:-2.406108
                                             1st Qu.:-2.4172
                                                                 1st Qu.:-2.5552
##
    Median : 0.3733
                       Median: 0.008421
                                             Median: 0.7556
                                                                Median: 1.8857
##
    Mean
            : 0.3805
                       Mean
                               : 0.197409
                                             Mean
                                                     : 0.1521
                                                                 Mean
                                                                        : 0.2313
##
    3rd Qu.: 2.7644
                       3rd Qu.: 2.699218
                                             3rd Qu.: 2.5236
                                                                 3rd Qu.: 2.7235
##
    Max.
            : 8.9881
                               : 7.503939
                                             Max.
                                                     : 7.0606
                                                                Max.
                                                                        : 8.8815
##
       T3_1H_R1
                           T3_2H_R1
                                              T3_3H_R1
                                                                  T3_4H_R1
##
            :-2.9561
                               :-4.9884
                                                  :-5.8280
                                                                      :-6.0789
    Min.
                       Min.
                                           Min.
                                                              Min.
##
    1st Qu.:-0.4409
                       1st Qu.:-1.1066
                                                              1st Qu.:-2.4930
                                           1st Qu.:-1.5925
                       Median : 0.6914
    Median : 0.1573
                                           Median: 0.9585
                                                              Median: 0.9982
                               : 0.5878
##
    Mean
           : 0.1714
                       Mean
                                           Mean
                                                  : 0.6387
                                                              Mean
                                                                      : 0.2736
                                           3rd Qu.: 2.7533
##
    3rd Qu.: 0.6673
                       3rd Qu.: 2.3016
                                                              3rd Qu.: 2.7854
##
    Max.
            : 8.6849
                       Max.
                               : 8.6560
                                           Max.
                                                  : 8.0950
                                                                      : 7.0103
                                                              Max.
##
       T3_5H_R1
                          T3_6H_R1
                                             T1_1H_R2
                                                                  T1_2H_R2
##
            :-6.910
                                                                      :-2.75004
    Min.
                      Min.
                              :-4.7625
                                          Min.
                                                  :-2.11580
                                                              Min.
##
    1st Qu.:-2.487
                      1st Qu.:-2.0911
                                          1st Qu.:-0.28225
                                                              1st Qu.:-0.27271
##
    Median : 1.156
                      Median : 1.8690
                                          Median :-0.02432
                                                              Median :-0.04075
##
           : 0.258
                              : 0.3913
                                                 :-0.04445
                                                                      : 0.10717
    Mean
                      Mean
                                          Mean
                                                              Mean
##
    3rd Qu.: 2.709
                      3rd Qu.: 2.4879
                                          3rd Qu.: 0.15670
                                                              3rd Qu.: 0.25383
##
    Max.
            : 6.529
                                          Max.
                                                  : 4.70943
                                                                      : 7.03638
                      Max.
                              : 8.6398
                                                              Max.
##
       T1_3H_R2
                           T1_4H_R2
                                               T1_5H_R2
                                                                   T1_6H_R2
                                                    :-3.3307
##
            :-3.2539
                               :-3.50770
    Min.
                       Min.
                                            Min.
                                                               Min.
                                                                       :-2.4863
```

```
## 1st Qu.:-0.1229
                     1st Qu.:-0.51001
                                        1st Qu.:-0.6437
                                                         1st Qu.:-0.9686
   Median : 0.2674
                     Median :-0.27091
                                        Median :-0.3845
                                                         Median :-0.7215
   Mean : 0.3033
                     Mean :-0.02457
                                        Mean :-0.2410
                                                         Mean :-0.3082
   3rd Qu.: 0.5068
                     3rd Qu.: 0.27652
                                        3rd Qu.: 0.1442
                                                         3rd Qu.: 0.5814
##
   Max. : 7.1995
##
                     Max. : 6.52284
                                        Max. : 5.2469
                                                         Max. : 3.9054
##
      T2 1H R2
                         T2 2H R2
                                           T2 3H R2
                                                            T2 4H R2
   Min. :-2.38587
                      Min. :-5.8266
                                        Min. :-4.6135
                                                         Min. :-6.4553
                      1st Qu.:-1.2309
   1st Qu.:-0.48477
                                        1st Qu.:-1.4511
                                                         1st Qu.:-2.3416
##
##
   Median : 0.03105
                      Median : 0.6644
                                        Median: 0.5351
                                                         Median: 0.5323
   Mean : 0.08932
                      Mean : 0.4684
                                        Mean : 0.5999
                                                         Mean : 0.1279
   3rd Qu.: 0.61495
                      3rd Qu.: 2.1298
                                        3rd Qu.: 2.5954
                                                          3rd Qu.: 2.4618
   Max. : 8.59820
                      Max. : 8.8928
                                        Max. : 8.4956
                                                         Max. : 8.0010
##
                        T2_6H_R2
      T2_5H_R2
                                                           T3_2H_R2
##
                                          T3_1H_R2
                     Min. :-6.2234
##
   Min. :-6.1685
                                       Min. :-3.22436
                                                         Min. :-6.0944
   1st Qu.:-2.4058
                     1st Qu.:-2.6251
                                       1st Qu.:-0.61705
                                                         1st Qu.:-1.3567
##
   Median : 1.0892
                     Median : 2.0014
                                       Median : 0.07589
                                                         Median: 0.7670
##
   Mean : 0.1411
                     Mean : 0.1572
                                       Mean : 0.11618
                                                         Mean : 0.5725
   3rd Qu.: 2.5033
                     3rd Qu.: 2.5375
                                       3rd Qu.: 0.76673
                                                          3rd Qu.: 2.3150
   Max. : 7.4521
                     Max. : 8.7777
                                       Max. : 8.77729
                                                         Max. : 8.6354
##
      T3 3H R2
##
                        T3 4H R2
                                          T3 5H R2
                                                           T3 6H R2
##
   Min. :-6.0135
                     Min. :-6.0345
                                       Min. :-6.8294
                                                        Min. :-7.24672
   1st Qu.:-1.8079
                     1st Qu.:-2.2277
                                       1st Qu.:-2.5646
                                                         1st Qu.:-2.80051
   Median : 1.1183
                     Median: 1.1769
                                       Median : 1.6539
                                                        Median: 1.92082
##
   Mean : 0.5828
                     Mean : 0.3157
                                       Mean : 0.1338
                                                        Mean : 0.05484
##
   3rd Qu.: 2.8892
                     3rd Qu.: 2.6455
                                       3rd Qu.: 2.5664
                                                         3rd Qu.: 2.46450
##
   Max. : 8.2637
                     Max. : 7.4777
                                       Max. : 6.9137
                                                        Max. : 8.69285
##
      ExpT1
                        ExpT2
                                            ExpT3
##
   Length:542
                      Length:542
                                         Length:542
##
   Class : character
                      Class :character
                                         Class : character
   Mode :character
                      Mode :character
                                         Mode :character
##
##
##
```