Figure 6: Box plot to show Distribution of Diabetes Percentage with the States

```
R-squared: 0.0472778062986996
                            OLS Regression Results
Dep. Variable:
                              % OBFSF
                                       R-squared:
                                                                          0.024
Model:
                                       Adj. R-squared:
                                                                          0.024
                                  OLS
Method:
                        Least Squares F-statistic:
                                                                          44.20
                     Sun, 08 Oct 2023 Prob (F-statistic):
                                                                      1.09e-19
Date:
Time:
                                                                        -3869.5
                             03:02:28 Log-Likelihood:
No. Observations:
                                 3540 AIC:
                                                                          7745.
Df Residuals:
                                 3537
                                      BIC:
                                                                          7764.
Df Model:
Covariance Type:
                            nonrobust
                         std err
                                                 P>|t|
                                                             [0.025
                 coef
                                                                         0.9751
             17.5673
                           0.115
                                  152.799
                                                 0.000
                                                             17.342
                                                                         17.793
const
                           0.006
                                      8.780
                                                             0.042
% INACTIVE
              0.0541
                                                 0.000
                                                                          0.066
% DTARFTTC
               0.0201
                           0.007
                                                              0.006
                                                                          0.034
                             2753.404
                                                                          2.004
Omnibus:
                                        Durbin-Watson:
Prob(Omnibus):
                                0.000 Jarque-Bera (JB):
                                                                     118367.402
Skew:
                               -3.313 Prob(JB):
                                                                           0.00
Kurtosis:
                               30.543
                                        Cond. No.
                                                                           176.
```

Figure 1 Regression Results

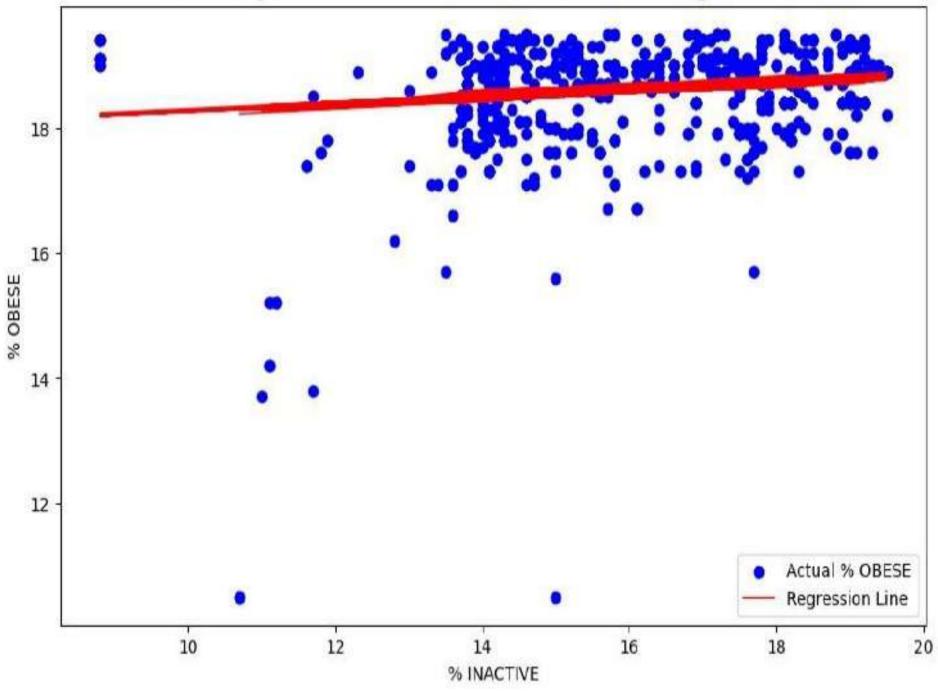


Figure 2: Linear Regression

Activate Win

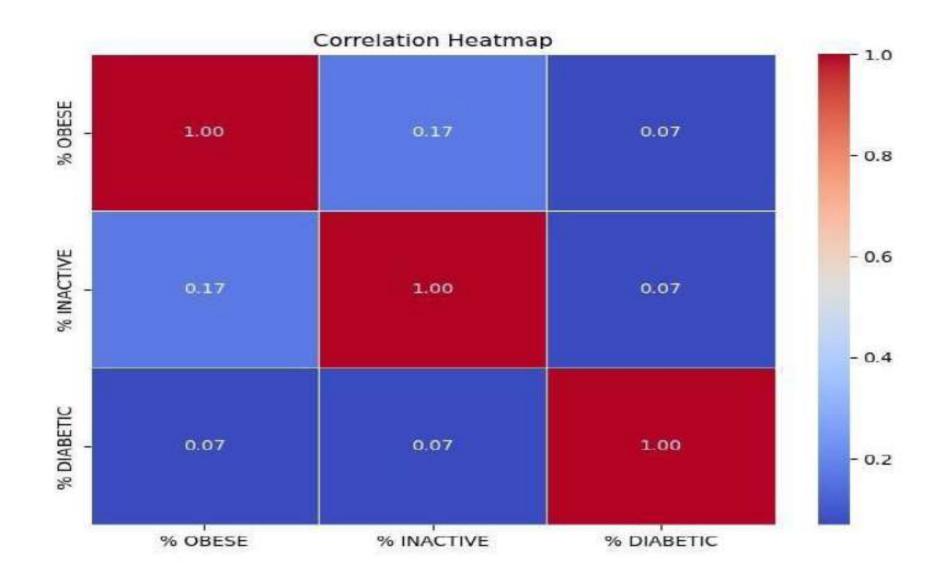


Figure 4: Heat map to show the correlation

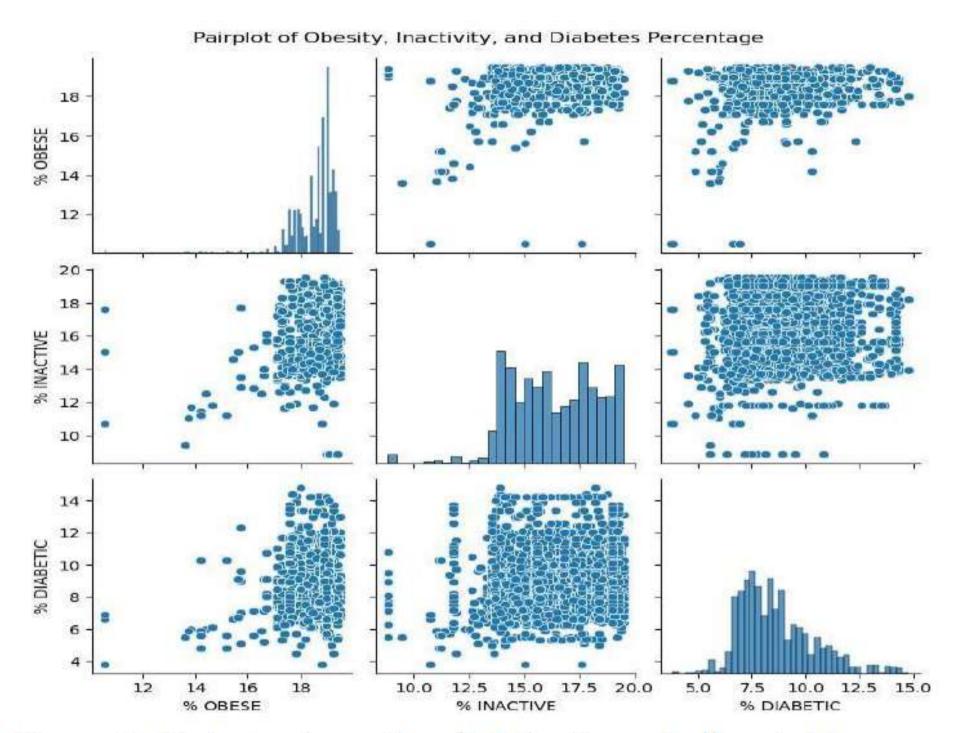


Figure 3: Plots to show the distribution of all variables.