Assignment Date	28 September 2022
Student Name	M Selvakumar
Student Roll Number	913119104091
Maximum Marks	2 Marks

#### **ASSIGNMENT**

2

# Queston-1:

Download the dataset

# Queston-2:

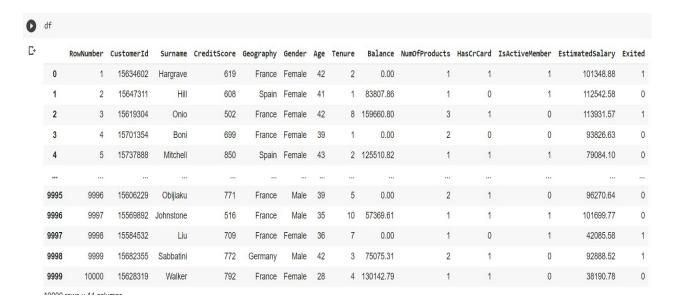
Load the dataset:



+ Code + Text

```
[ ] import pandas as pd
  import numpy as np
  import matplotlib.pyplot as plt
  import seaborn as sns
```

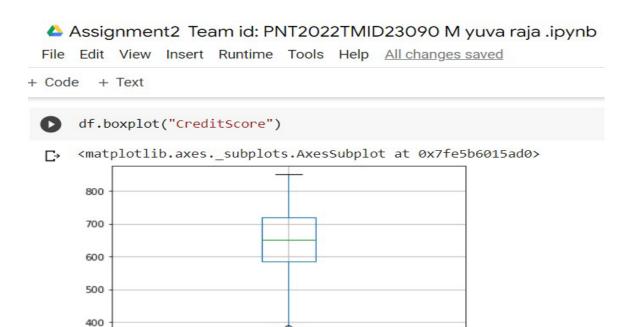
```
[ ] df=pd.read_csv("Churn_Modelling.csv")
```



Queston-3:

# **Perform Below Visualizations.**

# Univariate Analysis Bi - Variate Analysis Mult - Variate Analysis



CreditScore

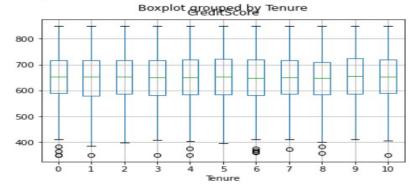
# 📤 Assignment2 Team id: PNT2022TMID23090 M yuva raja .ipynb

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# df.boxplot("CreditScore", "Tenure")

/usr/local/lib/python3.7/dist-packages/matplotlib/cbook/\_\_init\_\_
X = np.atleast\_1d(X.T if isinstance(X, np.ndarray) else np.asar
<matplotlib.axes.\_subplots.AxesSubplot at 0x7fe5b5a4fc90>



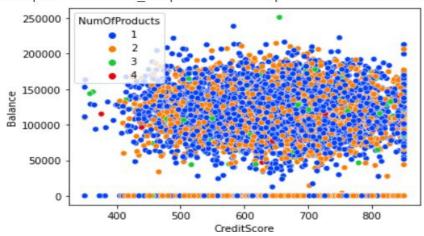
# Assignment2 Team id: PNT2022TMID23090 M yuva raja .ipynb

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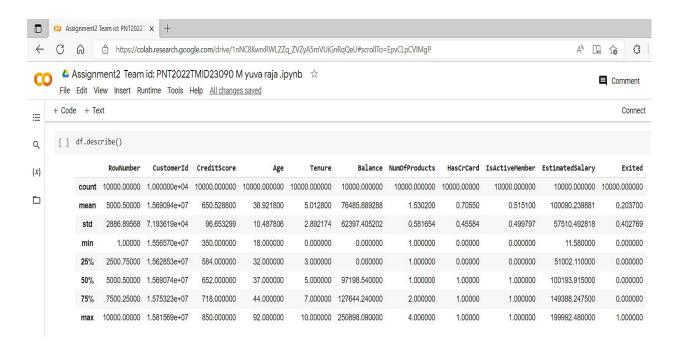
[ ] sns.scatterplot(x='CreditScore',y='Balance',data=df,palette='bri

<matplotlib.axes. subplots.AxesSubplot at 0x7fe5b57aaf50>



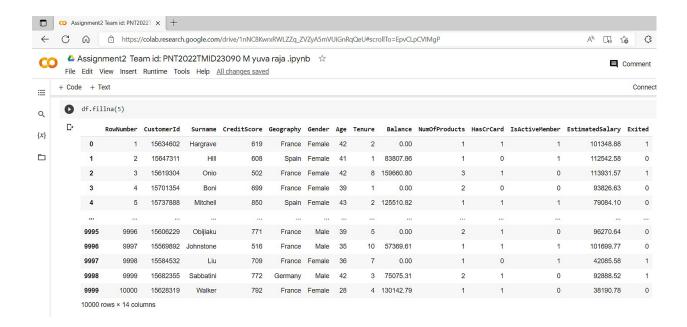
## Queston-4:

# Perform descriptive statistics on the dataset



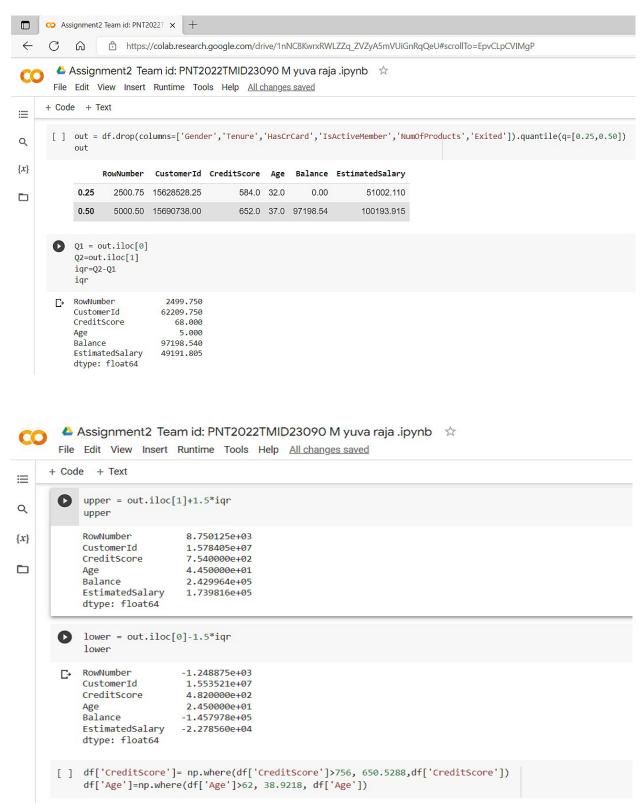
## Queston-5:

# **Handle the Missing values**



## Queston-6:

# Find the outliers & replace the outliers



## Queston-7:

## Check for Categorical columns and perform encoding

```
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       File Edit View Insert Runtime Tools Help All changes saved
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≣
       from sklearn.preprocessing import OneHotEncoder
Q
            e= OneHotEncoder(sparse=False)
            e= e.fit transform(df)
\{x\}
           array([[1., 0., 0., ..., 0., 0., 1.],
[0., 1., 0., ..., 0., 1., 0.],
                  [0., 0., 1., ..., 0., 0., 1.],
                  [0., 0., 0., ..., 0., 0., 1.],
                  [0., 0., 0., ..., 0., 0., 1.],
                  [0., 0., 0., ..., 0., 1., 0.]])
```

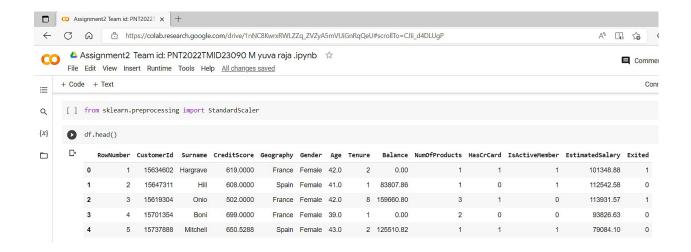
# Queston-8:

Split the data into dependent and independent variables.

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# Queston-9:

# Scale the independent variables



# Queston-10:

# Split the data into training & testing

