

Team ID	PNT2022TMID15657
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning

Data Visualization

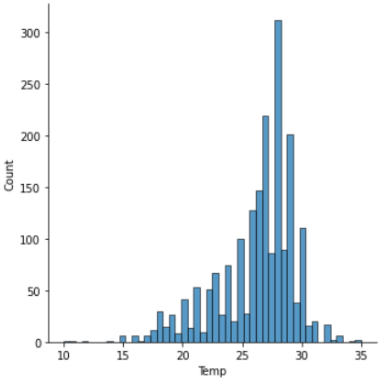
Data visualization

univariate Analysis

a)displot

In [355]:

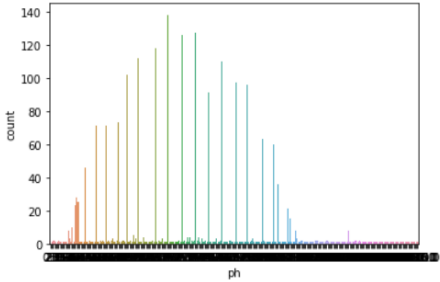
sns.displot(data.Temp)
plt.show()



b)Countplot

In [360]:

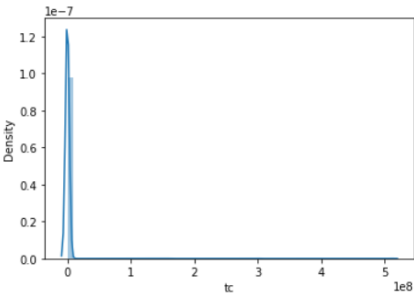
sns.countplot(data.ph)
plt.show()



c)Distplot

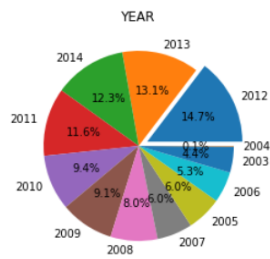
In [365]:

sns.distplot(data.tc)
plt.show()



d)Pie chart

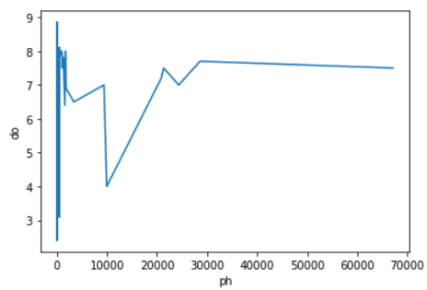
```
In [369]: plt.pie(data.year.value_counts(), [0.1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0], labels=[2012, 2013, 2014, 2011, 2010, 2009, 2008, 2007, 2005, 2006, 2003, 2004], title='YEAR', plt.show())
```



Bivariate Analysis

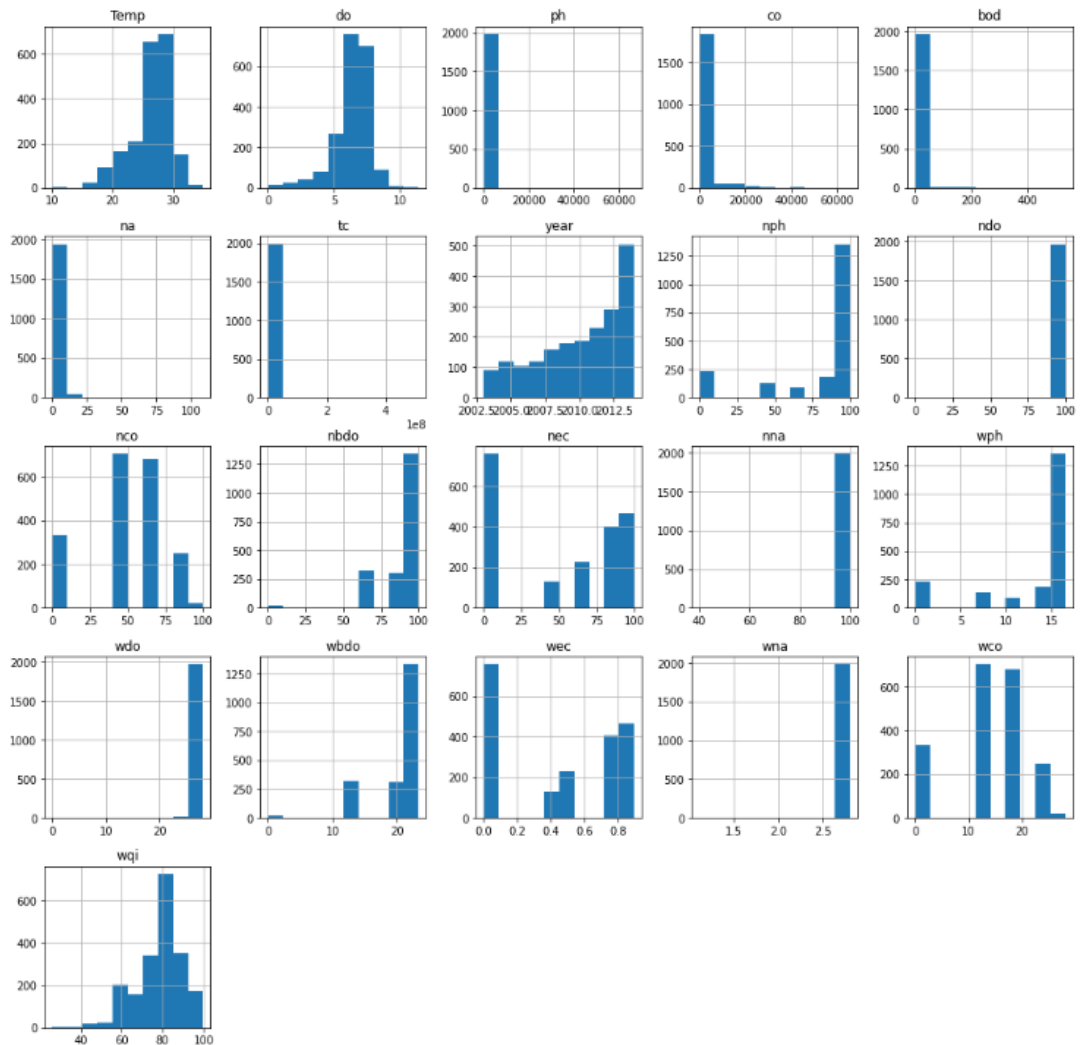
a)Line plot

```
In [374]: sns.lineplot(data.ph, data.do)
plt.show()
```



Multivariate analysis

```
In [395]: data.hist(figsize=(17,17))
plt.show()
```



b) Scatter plot

```
In [383]: sns.scatterplot(data.ph,data.bod)
plt.show()
```

