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ASSINGMENT-02

**DATASET PREPARATIONAND FEATURE EXTRACTION FOR THE WATER QUALITY ANALYSIS**

* **PREPARE THE 500 SAMPLES OF WATER DATA WITH REQUIRED MINERALS**

**I was saved 500 samples of water data with required minerals in excel csv file format.**

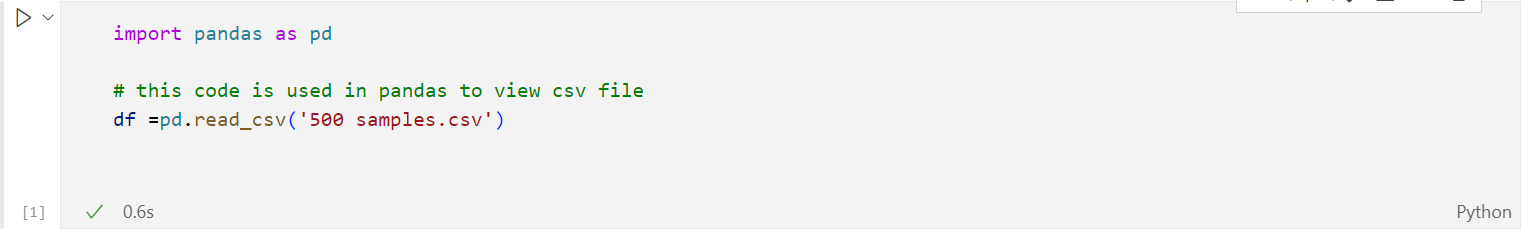
**‘500 samples.csv’**

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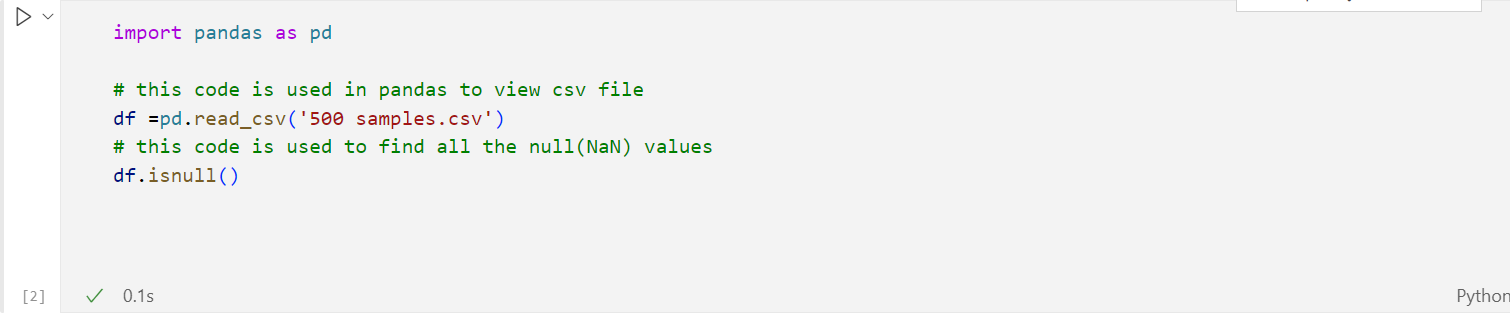
**You can see the 500 samples on double clicking on above table**

* Data cleaning operations with pandas (python)

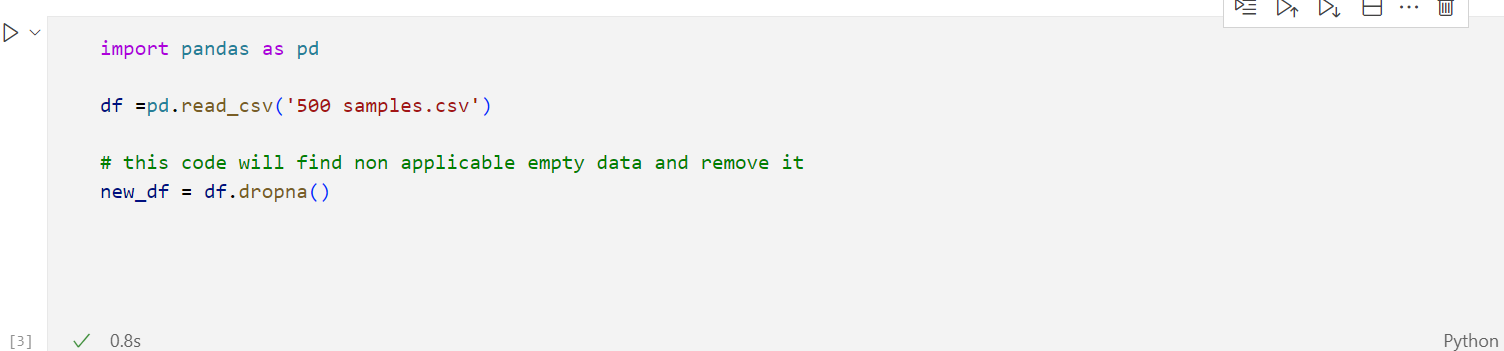
1. **This code is used in pandas to view your csv file import pandas as pd**

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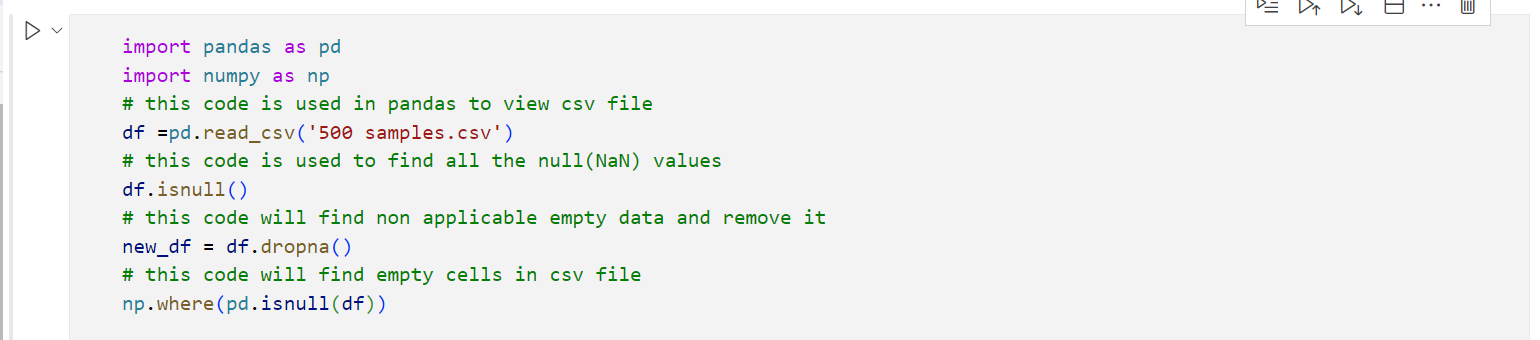
1. **This code will used to find all the null values (pandas consider null values as NaN )**

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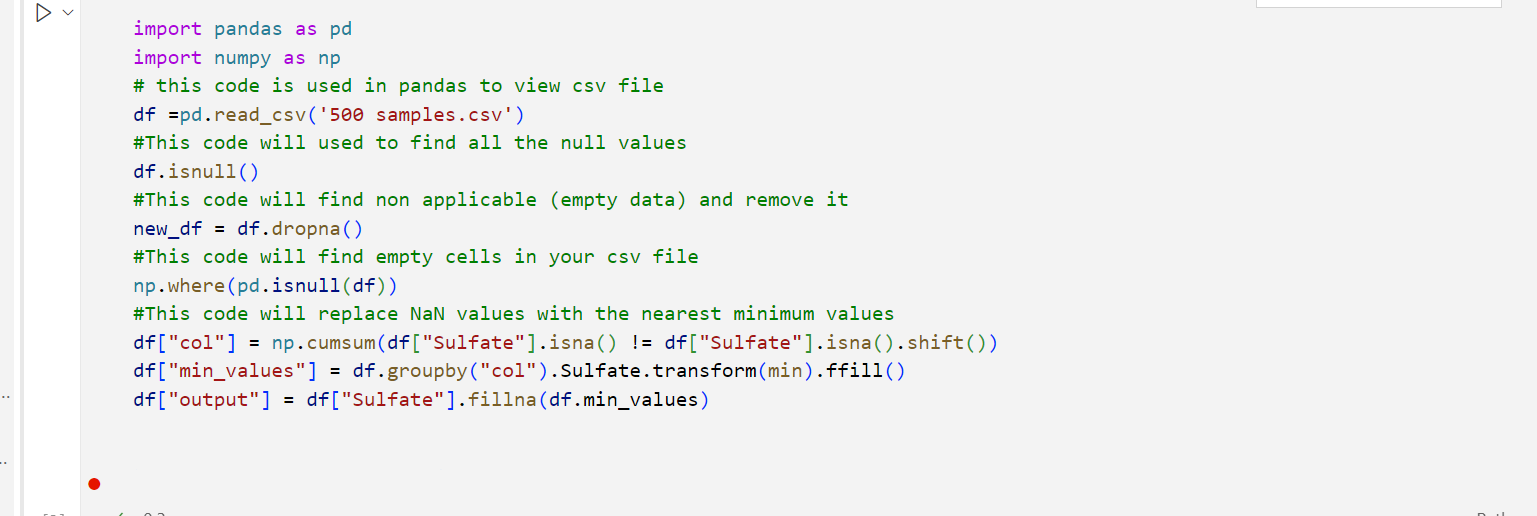
1. **This code will find non applicable (empty data) and remove it new\_df = df.dropna()**

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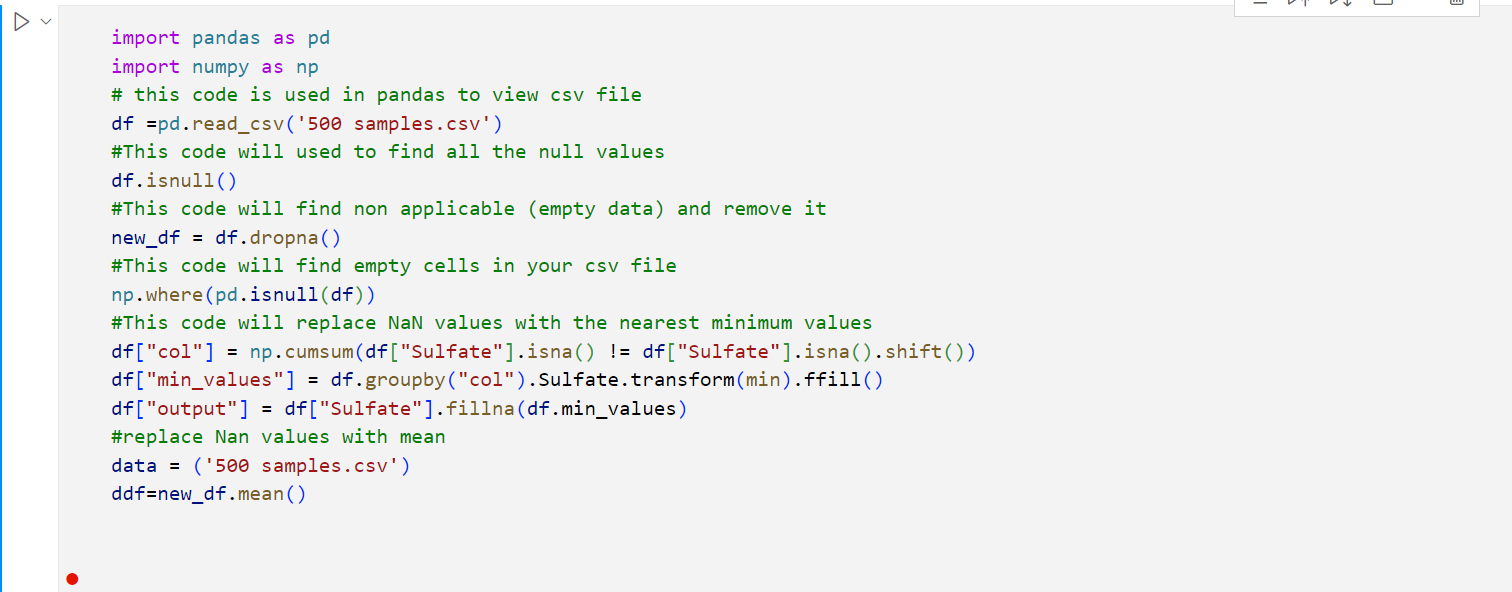
1. **This code will find empty cells in your csv file**



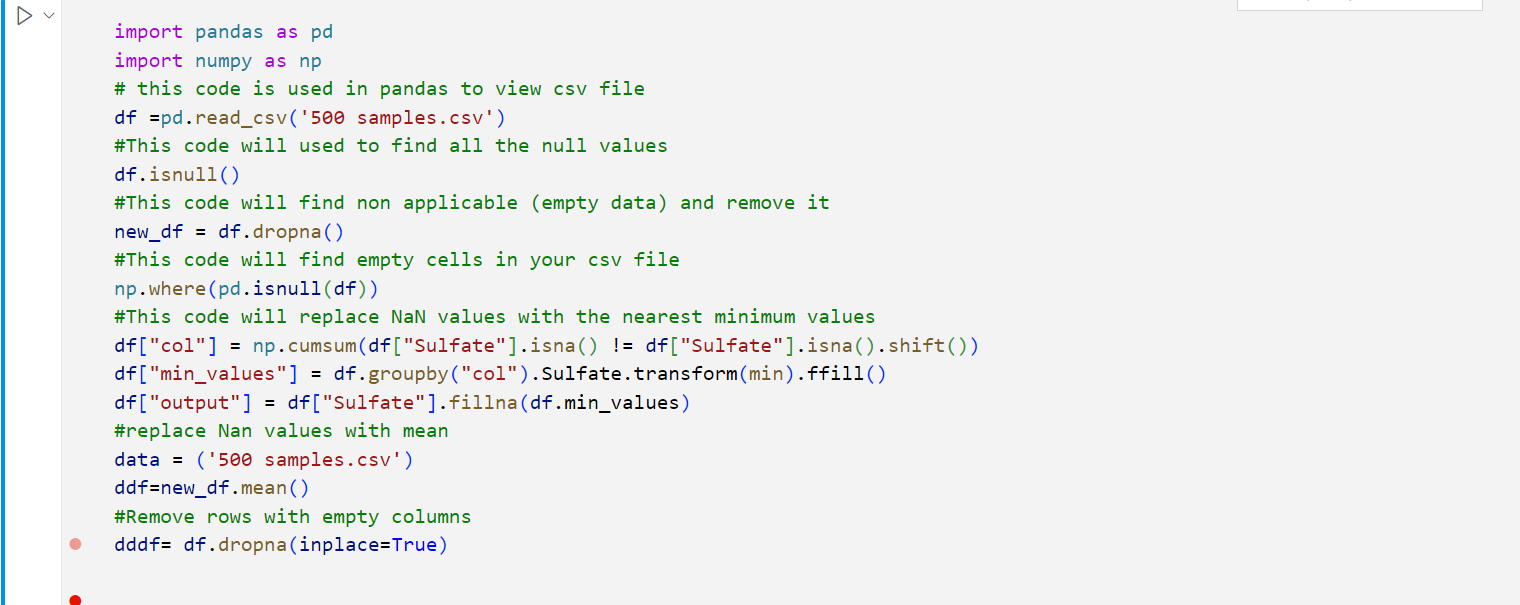
1. **This code will replace NaN values with the nearest minimum value**



1. **replace Nan values with mean**



1. **Remove rows with empty columns**



**FULL IMPLEMENTED**



**OUTPUT**

