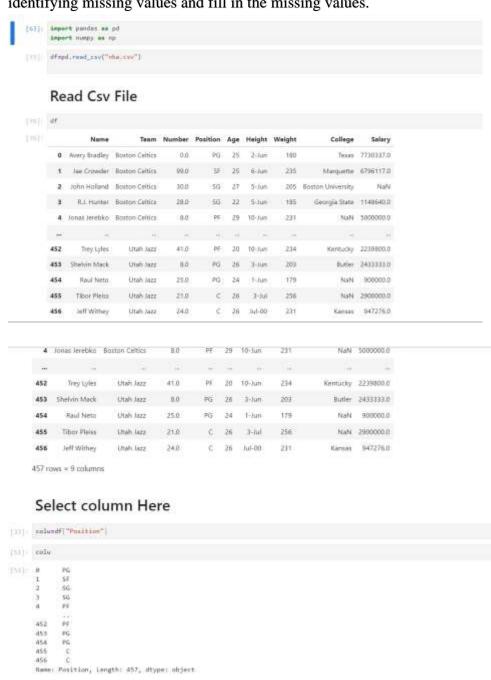
Name: Abhishek Mali Roll No.: 213070 PRN No.: 22320024

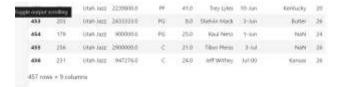
Tutorial No.1

1. Perform the following operations using Python on suitable data sets, read data from different formats(like csv, xls),indexing and selecting data, sort data, describe attributes of data, checking data types of each column, counting unique values of data, format of each column, converting variable data type (e.g. from long to short, vice versa), identifying missing values and fill in the missing values.



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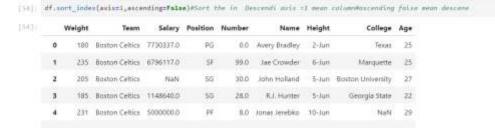
Describe



Row index



Sorting Values



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Checking The DataType



Unique Values

```
[59]: df.nunique()#Unique Value
[59]: Name 457
```

Checking The DataType

Unique Values

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Format Of The Column

Converting Variable DataType

```
[##] var_change

[##] var_change

[##] ## 180.0

1 255.0

2 205.0

3 185.0

4 238.0

452 234.8

453 203.0

454 179.0

455 256.0

455 251.0

Rame: Weight, Longth: 457, Stype: float64
```

isNull Fun

#It show missing value

```
日↑↓古早Ⅱ
(68): df.ismull().sum()
[68]: Name
    Number
             2
    Position 0
     Age
    Height
             8
    Weight
             à
    College
    Salary
             12
    dtype: int64
ren
```