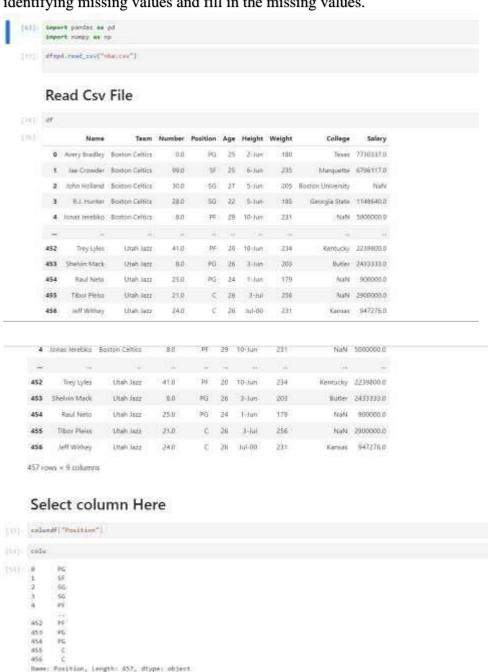
Name: Abhishek Mali Roll No.: 213070 PRN No.: 22320024

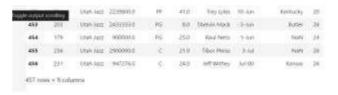
### **Tutorial No.1**

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.



### Vishwakarma Institute of Information Technology

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



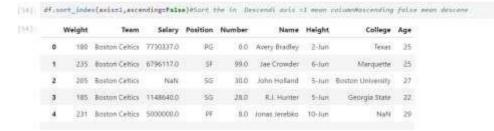
#### Describe



#### Row index



### Sorting Values



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

# Checking The DataType



# **Unique Values**

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

### Checking The DataType

### **Unique Values**

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

### Format Of The Column

```
class 'pandal curs frame DataFrame')
Rangarders 157 metries, 0 to 456
Duts columns (total = columns)

# Column Non-Nail Count Dtype

# Manne 457 non-mail objett

1 Term 457 non-mail mbjett

2 Staber 455 non-mail thight

5 Neight 457 non-mail thight

1 Term 10 total

5 Neight 457 non-mail biget

8 Manne 457 non-mail biget

8 Manne 457 non-mail intig

9 Colings 375 non-mail intig

1 Colings 375 non-mail biget

8 Salery 457 non-mail intig

1 Term 23.3 & 88

[51] df:info()

Coling 7 Colings 375 non-mail biget

1 Term 457 non-mail biget

1 Term 557 non-mail biget

1 Term 557 non-mail biget

1 Term 10 total 0 columns);

8 Caler fram Hail Count Dtype

0 Name 457 non-mail object

1 Term 457 non-mail object

2 Nameber 457 non-mail object

3 Focition 457 non-mail object

1 Term 457 non-mail object

8 Salery 7 Colings 375 non-mail object

1 Manne 457 non-mail object

1 Salery 458 non-mail object

1 Manne 457 non-mail object

1 Manne 457 non-mail object

3 Focition 457 non-mail object

5 Maight 457 non-mail object

6 Mainty 458 non-mail object

7 Colings 375 non-mail object

8 Salary 458 non-mail object

9 Salary 458 non-mail object

1 Term 457 non-mail object

1 Term 458 non-mail object

2 Term 458 non-mail object

3 Term 458 non-mail object

4 Salary 458 non-mail object

5 Term 458 non-mail object

1 Term 4
```

### Converting Variable DataType

## isNull Fun

#It show missing value

```
(di): df.ismil().sm()
                                                                                                  百个小古早日
[68]: Nane
    Team
    Burber
             2
    Position 0
    Age
             0
    Height
            . 8
    Weight
    College
            84
             13
    Salary
    dtype: int64
FRE
```