# **Lab Assignment 25**

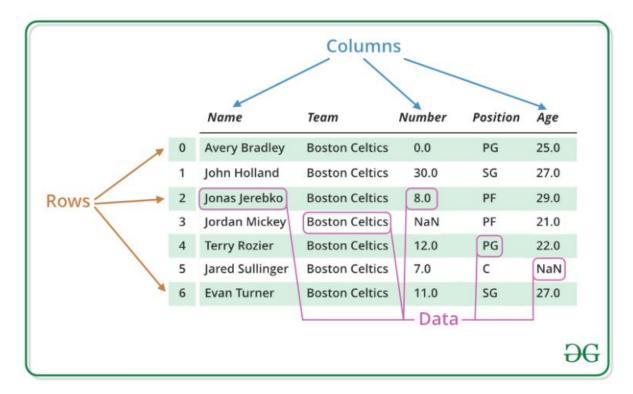
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**Topic: Panda Dataframe** 

**Python Pandas DataFrame:-**

**Pandas DataFrame** is two-dimensional size-mutable, potentially heterogeneous tabular data structure with labeled axes (rows and columns). A Data frame is a two-dimensional data structure, i.e., data is aligned in a tabular fashion in rows and columns. Pandas DataFrame consists of three principal components, the **data**, **rows**, and **columns**.



### Questions:

1. Create sample DataFrame using pandas with example

#### Code:

# Output:

```
Hindu English
Math
         88
  78
 92
         91
                  90
 85
         85
                  83
 97
         87
                  97
 85
         88
                  96
```

2. Read 8362\_data.csv print complete data and display columns[ student name,attendance,mcq,lab]

### Code:

```
#Q2. Read 8362_data.csv print complete data and display columns[ student name,attendance,mcq,lab]
import pandas as pd
data= pd.read_csv('8362_data.csv')
print(data[['Student Name','Attendance %','FD MCQ %','TD Lab %']].to_string(index=False))

16
```

# Output:

,			
	Attendance %	FD MCQ %	TD Lab %
Dashmeet Singh	95	87	88
Mr Ketan	66	17	36
Harsh panchal	40	17	48
Rahil Ahmad khan	79	46	61
vishal singh	13	0	4
Kishan Mishra	31	18	18
Shubham Kumar	60	72	83
Sonal Garg	66	46	65
RATAN SRIVASTAV	71	83	82
Rohit verma	89	85	85
Yashika Gupta	80	86	84
Dishant Kumar Moga	75	83	85
Abhishek .	73	65	66
Aryan Verma	88	90	88
Aryan Verma	88	90	88
Ankush .	94	79	87
Riya Singla	78	76	80
Rajneesh Singh	51	19	7
Khushi Chaudhary	13	0	11
Chauhan Vandana Ramdayal	87	88	85
Bittu Samui	43	36	14
Vikranth Singh	12	17	31
Divyanshi Dyori	20	16	27
Kunal Bisht	12	16	7
Navneet P	96	94	87
Abhinandan Kumar	93	92	80
Aafrin Alam	56	89	84
	·		

3. Display data using head() Function,tail() Function and Slicing data[3:20]

## Code:

```
#Q3.Display data using head() Function,tail() Function and Slicing data[3:20]
import pandas as pd

data= pd.read_csv('8362_data.csv')

APP=data[['Student Name','Attendance %','FD MCQ %','TD Lab %']]

print(APP.head(5).to_string(index=False))

print(APP.tail(3).to_string(index=False))

print(APP.loc[3:19].to_string(index=False))
```

## Output:

```
Student Name
                  Attendance %
                                FD MCQ %
                                           TD Lab %
  Dashmeet Singh
                            95
                                       87
                                                 88
        Mr Ketan
                             66
                                       17
   Harsh panchal
                             40
                                       17
                                                 48
Rahil Ahmad khan
                            79
                                                 61
                                       46
    vishal singh
                             13
                                       0
                                                 4
    Student Name Attendance % FD MCQ % TD Lab %
      Navneet P
                           96
                                      94
                                                87
Abhinandan Kumar
                           93
                                      92
                                                80
    Aafrin Alam
                           56
                                      89
                                                84
           Student Name Attendance % FD MCQ % TD Lab %
      Rahil Ahmad khan
                                    79
                                                        61
                                              46
           vishal singh
                                              0
                                                        4
          Kishan Mishra
                                              18
          Shubham Kumar
                                    60
                                                        83
             Sonal Garg
                                    66
                                              46
                                                        65
        RATAN SRIVASTAV
                                                        82
                                              83
            Rohit verma
                                    89
           Yashika Gupta
                                    80
                                              86
                                                        84
     Dishant Kumar Moga
                                                        85
                                    75
                                              83
             Abhishek .
                                              65
            Aryan Verma
                                    88
                                              90
                                                        88
               Ankush .
                                    94
                                              79
                                                        87
            Riya Singla
                                              76
                                                        80
         Rajneesh Singh
                                              19
       Khushi Chaudhary
                                              0
Chauhan Vandana Ramdayal
                                    87
                                                        85
                                              88
            Bittu Samui
                                    43
                                              36
```

4. Export data set using .to\_csv() only selected columns[ student name, attendance, mcq, lab]

#### Code:

```
#Q4. Export data set using .to_csv() only selected columns[ student name,attendance,mcq,lab]
import pandas as pd

data = pd.read_csv('8362_data.csv')

APP= data[['Student Name','Attendance %','FD MCQ %','TD Lab %']]
print(APP.head(5).to_string(index=False))
print(APP.tail(3).to_string(index=False))

print(APP.loc[3:19].to_string(index=False))

APP.to_csv('Result.csv')
```

### Output:

4	Α	В	С	D	E	F	G
1		Student !	Attendar	FD MCQ 9	TD Lab %		
2	0	Dashmee	95	87	88		
3	1	Mr Ketan	66	17	36		
4	2	Harsh pa	40	17	48		
5	3	Rahil Ahi	79	46	61		
6	4	vishal sir	13	0	4		
7	5	Kishan M	31	18	18		
8	6	Shubham	60	72	83		
9	7	Sonal Ga	66	46	65		
10	8	RATAN SF	71	83	82		
11	9	Rohit ver	89	85	85		
12	10	Yashika (	80	86	84		
13	11	Dishant I	75	83	85		
14	12	Abhishel	73	65	66		
15	13	Aryan Ve	88	90	88		
16	14	Ankush .	94	79	87		
17	15	Riya Sing	78	76	80		
18	16	Rajneesh	51	19	7		
19	17	Khushi Cl	13	0	11		
20	18	Chauhan	87	88	85		
21	19	Bittu San	43	36	14		
22	20	Vikranth	12	17	31		
23	21	Divyansh	20	16	27		
24	22	Kunal Bis	12	16	7		
25	23	Navneet	96	94	87		
26	24	Abhinan	93	92	80		
27	25	Aafrin Al	56	89	84		
28							