KeytoDataScience.com

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1 Indexing and Selecting Data on Columns

Indexing in pandas means simply selecting particular rows and columns of data from a DataFrame. Indexing could mean selecting all the rows and some of the columns, some of the rows and all of the columns, or some of each of the rows and columns. Indexing can also be known as **Subset Selection**.

Since a dataframe is two-dimensional, we can perform basic operations on rows/columns like:

- selecting,
- · deleting,
- adding,
- renaming

1.1 Column Selection

In Order to select a column in Pandas DataFrame, we can access the columns by calling them by their columns name.

```
Name Qualification
O Jai Msc
1 Princi MA
2 Gaurav MCA
3 Anuj Phd
```

1.2 Column Addition

In Order to add a column in Pandas DataFrame, we can declare a new list as a column and add to a existing Dataframe.

```
In [2]: # Declare a list that is to be converted into a column
    address = ['Delhi', 'Bangalore', 'Chennai', 'Patna']
    score = [40,56,23,98]

# Using 'Address' as the column name
    # and equating it to the list
    df['Address'] = address
    df['Score'] = score
    # Observe the result
    df
```

Out[2]:		Name	Age	Qualification	Address	Score
	0	Jai	27	Msc	Delhi	40
	1	Princi	24	MA	Bangalore	56
	2	Gaurav	22	MCA	Chennai	23
	3	Anuj	32	Phd	Patna	98

1.3 Column Deletion

In Order to delete a column in Pandas DataFrame, we can use the drop() method. Columns is deleted by dropping columns with column names.

```
In [3]: # dropping passed columns
    df.drop(["Address", "Score"], axis = 1, inplace = True)
# display
    print(df)
```

```
Name Age Qualification
0 Jai 27 Msc
1 Princi 24 MA
2 Gaurav 22 MCA
3 Anuj 32 Phd
```

1.4 Columns Names

While analyzing the real datasets which are often very huge in size, we might need to get the column names in order to perform some certain operations.

Let's discuss how to get column names in Pandas dataframe.

Method #1: Simply iterating over columns

```
In [4]: # iterating the columns
for col in df.columns:
    print(col)
```

Name Age

Qualification

Method #2: Using columns with dataframe object

```
In [5]: # list(data) or
list(df.columns)
Out[5]: ['Name', 'Age', 'Qualification']
```

Method #3: Using sorted() method

Sorted() method will return the list of columns sorted in alphabetical order.

```
In [6]: # using sorted() method
    sorted(df)

Out[6]: ['Age', 'Name', 'Qualification']
```

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2 Indexing and Selecting Data on Rows

2.1 Row Selection:

Pandas provide a unique method to retrieve rows from a Data frame.

DataFrame.loc[] method is used to retrieve rows from Pandas DataFrame.

Rows can also be selected by passing integer location to an iloc[] function.

```
In [7]: #index by name
```

```
df.set_index("Name",inplace=True)
         df
         # retrieving row by loc method
         first = df.loc["Jai"]
         second = df.loc["Anuj"]
         print(first, "\n\n", second)
        Age
                          27
        Qualification
                         Msc
        Name: Jai, dtype: object
         Age
                            32
        Qualification
                         Phd
        Name: Anuj, dtype: object
In [8]:
         # Using iloc[] function
         df.iloc[2,:]
        Age
                           22
Out[8]:
        Qualification
                         MCA
        Name: Gaurav, dtype: object
```

2.2 Row Addition

In Order to add a Row in Pandas DataFrame, we can concat the old dataframe with new one.

ut[9]:		Address	Age	Name	Qualification
	0	Noida	33	Navin	Btech
	1	Delhi	27	Jai	Msc
	2	Gurgaon	24	Princi	MA
	3	Haryana	22	Gaurav	MCA
	4	Bihar	32	Anuj	Phd

2.3 Row Deletion

In Order to delete a row in Pandas DataFrame, we can use the drop() method. Rows is deleted by dropping Rows by index label.

```
In [10]: # dropping passed values
    df.drop([0], inplace = True)

# display
    df
```

```
Out[10]:
             Address Age Name Qualification
                Delhi
                        27
                               Jai
                                           Msc
          2
            Gurgaon
                        24
                             Princi
                                            MA
              Haryana
                        22 Gaurav
                                           MCA
                                           Phd
                Bihar
                        32
                              Anuj
```

2.4 Row Names

How to get rows/index names in Pandas dataframe

```
In [11]:
          # iterate the indices and print each one
          for row in df.index:
              print(row, end= " ")
         1 2 3 4
In [12]:
          print(df)
          print(list(df.index))
          print(list(df.index.values))
                           Name Qualification
            Address Age
         1
             Delhi 27
                           Jai
                                         Msc
         2 Gurgaon 24 Princi
                                          MA
         3 Haryana 22 Gaurav
                                          MCA
            Bihar 32
                                          Phd
                           Anuj
         [1, 2, 3, 4]
         [1, 2, 3, 4]
```

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3 Indexing and Selecting Data on Rows and Columns

Pandas Dataframe type has two attributes called 'columns' and 'index' which can be used to change the column names as well as the row indexes.

```
In [13]: # first import the libraries
import pandas as pd
```

```
Out[13]: Name Age

0 Tom 15

1 Nick 26

2 John 17

3 Peter 28
```

Method #1: Changing the column name and row index using df.columns and df.index attribute.

- In order to change the column names, we provide a Python list containing the names for column df.columns= ['First_col', 'Second_col', 'Third_col',].
- In order to change the row indexes, we also provide a python list to it df.index=['row1', 'row2', 'row3',].

```
In [14]: # Change the column names
    df.columns =['Col_1', 'Col_2']

# Change the row indexes
    df.index = ['Row_1', 'Row_2', 'Row_3', 'Row_4']

# printing the data frame
    df
```

```
Out[14]: Col_1 Col_2

Row_1 Tom 15

Row_2 Nick 26

Row_3 John 17

Row_4 Peter 28
```

Method #2: Using rename() function with dictionary to change a column name.

Let's change the first column name from "Col_1" to "Names" using rename() function

Out[15]: Names Col_2

	Names	Col_2
Row_1	Tom	15
Row_2	Nick	26
Row_3	John	17
Row_4	Peter	28

```
In [16]:
# We can change multiple column names by
# passing a dictionary of old names and
# new names, to the rename() function.
df = df.rename({"Names":"Student Name","Col_2":"Marks"}, axis='columns')

df
```

```
        Row_1
        Tom
        15

        Row_2
        Nick
        26

        Row_3
        John
        17

        Row_4
        Peter
        28
```

Method #3: Using Lambda Function to rename the columns.

A lambda function is a small anonymous function which can take any number of arguments, but can only have one expression. Using the lambda function we can modify all of the column names at once. Let's add 'x' at the end of each column name using lambda function

```
In [17]: df = df.rename(columns=lambda x: x+'_x')
# this will modify all the column names
df
```

```
        Row_1
        Tom
        15

        Row_2
        Nick
        26

        Row_3
        John
        17

        Row_4
        Peter
        28
```

Method #4: Using list to rename the columns.

We can pass the list with updated columns names we want to change.

```
In [18]: # this will modify the name of columns
    df.columns = ['Name','Student_Marks']
    df
```

```
Out[18]:
                 Name Student_Marks
          Row_1
                  Tom
                                 15
          Row_2
                  Nick
                                 26
          Row_3
                  John
                                 17
          Row_4
                  Peter
                                 28
         Method #5: Using lambda function change the row index.
In [19]:
          # Let's change the row index using the Lambda function
          # To change the row indexes
          df = pd.DataFrame({"A":['Tom','Nick','John','Peter'],
                              "B":[25,16,27,18]})
          df
Out[19]:
               A B
          0
             Tom 25
             Nick 16
             John 27
          3 Peter 18
In [20]:
          # this will increase the row index value by 10 for each row
          df = df.rename(index = lambda x: x + 10)
          df
Out[20]:
                Α
                  В
          10
             Tom 25
              Nick 16
          11
             John 27
          12
          13 Peter 18
         Method #6: Change both Column and Row indexes
In [21]:
          # increase all the row index label by value 5
          # append a value 'x' at the end of each column name.
          df = df.rename(index = lambda x: x + 5,
                          columns = lambda x: x + 'x')
          df
Out[21]:
               Ax Bx
```

Tom 25

15

```
        Ax
        Bx

        16
        Nick
        16

        17
        John
        27

        18
        Peter
        18
```

Method #7: Get unique values from a column in Pandas DataFrame

```
In [22]:
          # create a dictionary with five fields each
          data = {
              'A':['A1', 'A2', 'A3', 'A4', 'A5'],
              'B':['B1', 'B2', 'B3', 'B4', 'B4'],
              'C':['C1', 'C2', 'C3', 'C3', 'C3'],
              'D':['D1', 'D2', 'D2', 'D2', 'D2'],
              'E':['E1', 'E1', 'E1', 'E1', 'E1'] }
          # Convert the dictionary into DataFrame
          dframe = pd.DataFrame(data)
          dframe
             A B C D E
Out[22]:
         0 A1 B1 C1 D1 E1
         1 A2 B2 C2 D2 E1
         2 A3 B3 C3 D2 E1
         3 A4 B4 C3 D2 E1
         4 A5 B4 C3 D2 E1
In [23]:
          # Get the unique values of 'B' column
          dframe.B.unique()
         array(['B1', 'B2', 'B3', 'B4'], dtype=object)
Out[23]:
In [24]:
          # Get the unique values of 'E' column
          dframe.E.unique()
         array(['E1'], dtype=object)
Out[24]:
In [25]:
          # Get the count unique values of 'B' column
          dframe.B.nunique()
Out[25]:
In [26]:
          # Get the count unique values of 'E' column
          dframe.E.nunique()
```

```
Out[26]: 1
```

IMPORTANT:

Selecting Rows and Columns Based on Conditions in Python Pandas DataFrame - KeytoDataScience

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4 Iterating over rows and columns in Pandas DataFrame

In Pandas Dataframe we can iterate an element in two ways:

- Iterating over **rows**
- Iterating over columns

```
        Out[27]:
        name
        degree
        score

        0
        aparna
        MBA
        90

        1
        pankaj
        BCA
        40

        2
        sudhir
        M.Tech
        80

        3
        Geeku
        MBA
        98
```

Method #1: Iterate over rows using iterrows()

```
In [28]: # iterating over rows using iterrows() function
    for i, j in df.iterrows():
        print(i,"\n-----\n",j)
        print("_____")

0
-----
name aparna
degree MBA
score 90
```

```
score 90
Name: 0, dtype: object

1
-----
name pankaj
degree BCA
score 40
```

```
Name: 1, dtype: object

2
-----
name sudhir
degree M.Tech
score 80
Name: 2, dtype: object

3
-----
name Geeku
degree MBA
score 98
Name: 3, dtype: object
```

Method #2: Iterate over rows using itertuples()

Method #3: Iterate over columns using list

```
In [29]: # using a itertuples()
for i in df.itertuples():
    print(i)

Pandas(Index=0, name='aparna', degree='MBA', score=90)
Pandas(Index=1, name='pankaj', degree='BCA', score=40)
Pandas(Index=2, name='sudhir', degree='M.Tech', score=80)
Pandas(Index=3, name='Geeku', degree='MBA', score=98)
```

Now we iterate through columns in order to iterate through columns we first create a list of dataframe columns and then iterate through list.

```
In [30]: # creating a list of dataframe columns
    columns = list(df)

    for i in columns:
        # printing the third element of the column
        print (df[i][2])

sudhir
M.Tech
```

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5 Sorting using Pandas

80

display
data.head()

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			ь.			а.	

	Name	Team	Number	Position	Age	Height	Weight	College	Salary
152	Aaron Brooks	Chicago Bulls	0.0	PG	31.0	6-0	161.0	Oregon	2250000.0
356	Aaron Gordon	Orlando Magic	0.0	PF	20.0	6-9	220.0	Arizona	4171680.0
328	Aaron Harrison	Charlotte Hornets	9.0	SG	21.0	6-6	210.0	Kentucky	525093.0
404	Adreian Payne	Minnesota Timberwolves	33.0	PF	25.0	6-10	237.0	Michigan State	1938840.0
312	Al Horford	Atlanta Hawks	15.0	С	30.0	6-10	245.0	Florida	12000000.0

Example #1: Sorting by Name and Team

In the following example, A data frame is made from the csv file and the data frame is sorted in ascending order of Team and in every Team the Name is also sorted in Ascending order.

```
In [32]:
```

Out[32]:

	Name	Team	Number	Position	Age	Height	Weight	College	Salary
312	Al Horford	Atlanta Hawks	15.0	С	30.0	6-10	245.0	Florida	12000000.0
318	Dennis Schroder	Atlanta Hawks	17.0	PG	22.0	6-1	172.0	NaN	1763400.0
323	Jeff Teague	Atlanta Hawks	0.0	PG	27.0	6-2	186.0	Wake Forest	8000000.0
309	Kent Bazemore	Atlanta Hawks	24.0	SF	26.0	6-5	201.0	Old Dominion	2000000.0
311	Kirk Hinrich	Atlanta Hawks	12.0	SG	35.0	6-4	190.0	Kansas	2854940.0
•••									
376	Markieff Morris	Washington Wizards	5.0	PF	26.0	6-10	245.0	Kansas	8000000.0
375	Nene Hilario	Washington Wizards	42.0	С	33.0	6-11	250.0	NaN	13000000.0
378	Otto Porter Jr.	Washington Wizards	22.0	SF	23.0	6-8	198.0	Georgetown	4662960.0
379	Ramon Sessions	Washington Wizards	7.0	PG	30.0	6-3	190.0	Nevada	2170465.0

	Name	Team	Number	Position	Age	Height	Weight	College	Salary
457	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

458 rows × 9 columns

Example #2: Passing list to Ascending Parameter

As shown in the above example, a Data frame can be sorted with respect to multiple columns by passing a list to the 'by' Parameter.

We can also pass a list to the 'ascending' Parameter to tell pandas which column to sort how (ascending/descing). The index of Boolean in 'ascending' parameter should be same as the index of column name in 'by' Parameter.

Out[33]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	322	Walter Tavares	Atlanta Hawks	22.0	С	24.0	7-3	260.0	NaN	1000000.0
	310	Tim Hardaway Jr.	Atlanta Hawks	10.0	SG	24.0	6-6	205.0	Michigan	1304520.0
	321	Tiago Splitter	Atlanta Hawks	11.0	С	31.0	6-11	245.0	NaN	9756250.0
	320	Thabo Sefolosha	Atlanta Hawks	25.0	SF	32.0	6-7	220.0	NaN	4000000.0
	315	Paul Millsap	Atlanta Hawks	4.0	PF	31.0	6-8	246.0	Louisiana Tech	18671659.0
	•••									
	380	Garrett Temple	Washington Wizards	17.0	SG	30.0	6-6	195.0	LSU	1100602.0
	372	Drew Gooden	Washington Wizards	90.0	PF	34.0	6-10	250.0	Kansas	3300000.0
	369	Bradley Beal	Washington Wizards	3.0	SG	22.0	6-5	207.0	Florida	5694674.0
	368	Alan Anderson	Washington Wizards	6.0	SG	33.0	6-6	220.0	Michigan State	4000000.0
	457	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

Example #3: Changing position of Null values

In the give data, there are many null values in different columns which are put in the last by default. In this example, the Data Frame is sorted with respect to Salary column and Null values are kept at the top.

Out[34]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	2	John Holland	Boston Celtics	30.0	SG	27.0	6-5	205.0	Boston University	NaN
	46	Elton Brand	Philadelphia 76ers	42.0	PF	37.0	6-9	254.0	Duke	NaN
	171	Dahntay Jones	Cleveland Cavaliers	30.0	SG	35.0	6-6	225.0	Duke	NaN
	264	Jordan Farmar	Memphis Grizzlies	4.0	PG	29.0	6-2	180.0	UCLA	NaN
	269	Ray McCallum	Memphis Grizzlies	5.0	PG	24.0	6-3	190.0	Detroit	NaN
	270	Xavier Munford	Memphis Grizzlies	14.0	PG	24.0	6-3	180.0	Rhode Island	NaN
	273	Alex Stepheson	Memphis Grizzlies	35.0	PF	28.0	6-10	270.0	USC	NaN
	350	Briante Weber	Miami Heat	12.0	PG	23.0	6-2	165.0	Virginia Commonwealth	NaN
	353	Dorell Wright	Miami Heat	11.0	SF	30.0	6-9	205.0	NaN	NaN
	397	Axel Toupane	Denver Nuggets	6.0	SG	23.0	6-7	210.0	NaN	NaN
	409	Greg Smith	Minnesota Timberwolves	4.0	PF	25.0	6-10	250.0	Fresno State	NaN
	457	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
	32	Thanasis Antetokounmpo	New York Knicks	43.0	SF	23.0	6-7	205.0	NaN	30888.0
	291	Orlando Johnson	New Orleans Pelicans	0.0	SG	27.0	6-5	220.0	UC Santa Barbara	55722.0
	130	Phil Pressey	Phoenix Suns	25.0	PG	25.0	5-11	175.0	Missouri	55722.0

6 Revision - Basic operations on a Data Frame

```
In [35]:  # importing pandas module
import pandas as pd

# making data frame
df = pd.read_csv("https://media.geeksforgeeks.org/wp-content/uploads/nba.csv")

df.head(5)
```

Out[35]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	0	Avery Bradley	Boston Celtics	0.0	PG	25.0	6-2	180.0	Texas	7730337.0
	1	Jae Crowder	Boston Celtics	99.0	SF	25.0	6-6	235.0	Marquette	6796117.0
	2	John Holland	Boston Celtics	30.0	SG	27.0	6-5	205.0	Boston University	NaN
	3	R.J. Hunter	Boston Celtics	28.0	SG	22.0	6-5	185.0	Georgia State	1148640.0
	4	Jonas Jerebko	Boston Celtics	8.0	PF	29.0	6-10	231.0	NaN	5000000.0

Method #1: Fetch **n** smallest or largest values of a column

```
In [36]:
# five smallest values in column Salary
df.nsmallest(5, ['Salary'])
```

Out[36]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	32	Thanasis Antetokounmpo	New York Knicks	43.0	SF	23.0	6-7	205.0	NaN	30888.0
	130	Phil Pressey	Phoenix Suns	25.0	PG	25.0	5-11	175.0	Missouri	55722.0
	291	Orlando Johnson	New Orleans Pelicans	0.0	SG	27.0	6-5	220.0	UC Santa Barbara	55722.0
	135	Alan Williams	Phoenix Suns	15.0	С	23.0	6-8	260.0	UC Santa Barbara	83397.0
	175	Jordan McRae	Cleveland Cavaliers	12.0	SG	25.0	6-5	179.0	Tennessee	111196.0

```
In [37]: # five largest values in column age
df.nlargest(5, ['Age'])
```

Out[37]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	298	Tim Duncan	San Antonio Spurs	21.0	С	40.0	6-11	250.0	Wake Forest	5250000.0

	Name	Team	Number	Position	Age	Height	Weight	College	Salary
304	Andre Miller	San Antonio Spurs	24.0	PG	40.0	6-3	200.0	Utah	250750.0
400	Kevin Garnett	Minnesota Timberwolves	21.0	PF	40.0	6-11	240.0	NaN	8500000.0
102	Pablo Prigioni	Los Angeles Clippers	9.0	PG	39.0	6-3	185.0	NaN	947726.0
261	Vince Carter	Memphis Grizzlies	15.0	SG	39.0	6-6	220.0	North Carolina	4088019.0

In [38]:

Ten largest values in column Weight
df.nlargest(10, ['Weight'])

Out[38]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	405	Nikola Pekovic	Minnesota Timberwolves	14.0	С	30.0	6-11	307.0	NaN	12100000.0
	302	Boban Marjanovic	San Antonio Spurs	40.0	С	27.0	7-3	290.0	NaN	1200000.0
	330	Al Jefferson	Charlotte Hornets	25.0	С	31.0	6-10	289.0	NaN	13500000.0
	395	Jusuf Nurkic	Denver Nuggets	23.0	С	21.0	7-0	280.0	NaN	1842000.0
	188	Andre Drummond	Detroit Pistons	0.0	С	22.0	6-11	279.0	Connecticut	3272091.0
	41	Kevin Seraphin	New York Knicks	1.0	С	26.0	6-10	278.0	NaN	2814000.0
	23	Brook Lopez	Brooklyn Nets	11.0	С	28.0	7-0	275.0	Stanford	19689000.0
	56	Jahlil Okafor	Philadelphia 76ers	8.0	С	20.0	6-11	275.0	Duke	4582680.0
	155	Cristiano Felicio	Chicago Bulls	6.0	PF	23.0	6-10	275.0	NaN	525093.0

Method #2: Apply uppercase to a column in Pandas dataframe

Cleveland

Cavaliers

Timofey

Mozgov

176

Out[39]:		Name	Team	Number	Position	Age	Height	Weight	College	Salary
	0	AVERY BRADLEY	Boston Celtics	0.0	PG	25.0	6-2	180.0	Texas	7730337.0

20.0

C 29.0

7-1

275.0

NaN 4950000.0

	Name	Team	Number	Position	Age	Height	Weight	College	Salary
1	JAE CROWDER	Boston Celtics	99.0	SF	25.0	6-6	235.0	Marquette	6796117.0
2	JOHN HOLLAND	Boston Celtics	30.0	SG	27.0	6-5	205.0	Boston University	NaN
3	R.J. HUNTER	Boston Celtics	28.0	SG	22.0	6-5	185.0	Georgia State	1148640.0
4	JONAS JEREBKO	Boston Celtics	8.0	PF	29.0	6-10	231.0	NaN	5000000.0

```
# removing null values to avoid errors
df.dropna(inplace = True)

# Applying upper() method on 'College' column
df['College'].apply(lambda x: x.upper()).head()
```

Out[40]: 0 TEXAS
1 MARQUETTE
3 GEORGIA STATE
6 LSU
7 GONZAGA
Name: College, dtype: object

Method #3: Selecting some rows and some columns:

In order to select two rows and three columns, we select a two rows which we want to select and three columns and put it in a separate list like this:

Team Number Position

```
Name
Avery Bradley Boston Celtics 0.0 PG
R.J. Hunter Boston Celtics 28.0 SG
```

Method #4: Selecting rows and columns using .loc:

In order to select all of the rows and some columns, we use single colon [:] to select all of rows and list of some columns which we want to select like this:

```
In [42]: # retrieving all rows and some columns by loc method
    first = data.loc[:, ["Team", "Number", "Position"]]
    first
```

Name	Team	Number	Position
Name			
Avery Bradley	Boston Celtics	0.0	PG
Jae Crowder	Boston Celtics	99.0	SF
John Holland	Boston Celtics	30.0	SG
R.J. Hunter	Boston Celtics	28.0	SG
Jonas Jerebko	Boston Celtics	8.0	PF
•••			
Shelvin Mack	Utah Jazz	8.0	PG
Raul Neto	Utah Jazz	25.0	PG
Tibor Pleiss	Utah Jazz	21.0	С
Jeff Withey	Utah Jazz	24.0	С
NaN	NaN	NaN	NaN

458 rows × 3 columns

Method #5: Selecting rows and columns using .iloc:

```
In [43]:
          # retrieving rows by iloc method
          row2 = data.iloc[3]
          row2
                     Boston Celtics
         Team
Out[43]:
         Number
                                28.0
         Position
                                  SG
         Age
                                22.0
         Height
                                 6-5
         Weight
                               185.0
         College
                      Georgia State
         Salary
                          1148640.0
         Name: R.J. Hunter, dtype: object
In [44]:
          # retrieving two rows and two columns by iloc method
          row2 = data.iloc [[3, 4], [1, 2]]
          print(row2)
                        Number Position
         Name
         R.J. Hunter
                           28.0
                                      SG
                                      ΡF
         Jonas Jerebko
                           8.0
In [45]:
          # retrieving all rows and some columns by iloc method
          row2 = data.iloc [:, [1, 2]]
          row2
```

Name		
Avery Bradley	0.0	PG
Jae Crowder	99.0	SF
John Holland	30.0	SG
R.J. Hunter	28.0	SG
Jonas Jerebko	8.0	PF
•••		
Shelvin Mack	8.0	PG
Raul Neto	25.0	PG
Tibor Pleiss	21.0	С
Jeff Withey	24.0	С
NaN	NaN	NaN

Number Position

458 rows × 2 columns

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(Optional): This Pandas exercise will help the learners to get a better understanding of data analysis problems. This practice page consists of a huge set of Pandas programs like Pandas Dataframe/series, handling Rows/Columns, grouping and all sort of frequently encounterd problems.

Pandas Practice Excercises Questions & Solutions

Great Job!

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