```
In [6]: # Anatomy of a dataframe
          import pandas as pd # importing pandas
          meteorites = pd.read_csv('Meteorite_Landings.csv', nrows=5) # assign dataframe to n
 In [7]: # show dataframe
          meteorites
 Out[7]:
                                                    mass
                                                           fall
                name
                        id nametype
                                          recclass
                                                                               reclat
                                                                                        reclong (
                                                                     year
                                                      (g)
                                                                01/01/1880
          0
                                               L5
              Aachen
                         1
                                 Valid
                                                       21
                                                          Fell
                                                                  12:00:00
                                                                            50.77500
                                                                                         6.08333
                                                                      AM
                                                                01/01/1951
          1
                         2
                                              H6
               Aarhus
                                 Valid
                                                      720 Fell
                                                                  12:00:00
                                                                            56.18333
                                                                                        10.23333
                                                                      AM
                                                                01/01/1952
          2
                Abee
                         6
                                 Valid
                                             EH4
                                                  107000 Fell
                                                                  12:00:00
                                                                            54.21667 -113.00000
                                                                      AM
                                                                01/01/1976
          3 Acapulco
                        10
                                 Valid Acapulcoite
                                                     1914 Fell
                                                                  12:00:00
                                                                            16.88333
                                                                                       -99.90000
                                                                      AM
                                                                01/01/1902
                                 Valid
                                                      780 Fell
               Achiras 370
                                               L6
                                                                  12:00:00
                                                                           -33.16667
                                                                                       -64.95000
                                                                      AM
 In [8]:
         meteorites.name # method to find values in the name column
          0
 Out[8]:
                 Aachen
                 Aarhus
          1
          2
                    Abee
          3
               Acapulco
                Achiras
          Name: name, dtype: object
In [10]: meteorites.columns # method to find the columns in the dataframe
Out[10]: Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
                  'reclat', 'reclong', 'GeoLocation'],
                dtype='object')
In [11]: meteorites.index # shows the indexes in the dataframe
Out[11]: RangeIndex(start=0, stop=5, step=1)
          # Using API in dataframe (INCORRECT)
In [14]:
          import requests
          response = requests.get(
```

```
'https://data.nasa.gov/resource/gh4-9sfh.json',
   params = {'$limit': 50_000}
)

if response.ok:
   payload = respsonse.json()

else:
   print(f'Request was not successful and returned code: {response.status_code}.')
   payload = None
```

Request was not successful and returned code: 404.

In [19]: payload

```
Out[19]: [{'name': 'Aachen',
            'id': '1',
            'nametype': 'Valid',
            'recclass': 'L5',
            'mass': '21',
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            'id': '2',
            'nametype': 'Valid',
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            'mass': '720',
            'fall': 'Fell'
            'year': '1951-01-01T00:00:00.000',
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            'nametype': 'Valid',
            'recclass': 'EH4',
            'mass': '107000',
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            'reclong': '-113.000000',
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            'nametype': 'Valid',
            'recclass': 'L6',
            'mass': '780',
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            'reclat': '-33.166670',
            'reclong': '-64.950000',
            'geolocation': {'latitude': '-33.16667', 'longitude': '-64.95'}},
           {'name': 'Adhi Kot',
            'id': '379',
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            'recclass': 'EH4',
            'mass': '4239',
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```

```
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 'reclat': '32.100000',
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```

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```
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```

```
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```

```
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 ':@computed_region_nnqa_25f4': '429'},
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 'id': '48915',
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 'mass': '3950',
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 'geolocation': {'latitude': '27.66667', 'longitude': '78.25'}},
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 'id': '2294',
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```

```
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 'year': '1898-01-01T00:00:00.000',
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 'geolocation': {'latitude': '48.7', 'longitude': '37.5'}},
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{'name': 'Angra dos Reis (stone)',
```

```
'id': '2302',
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```

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 'mass': '41',
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```

```
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 'nametype': 'Valid',
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 'geolocation': {'latitude': '53.66667', 'longitude': '55.98333'}},
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'recclass': 'Stone-uncl',
 'mass': '10400',
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 'year': '1623-01-01T00:00:00.000',
 'reclat': '50.383330',
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 'mass': '3500',
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 ':@computed_region_cbhk_fwbd': '15',
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 'recclass': 'L6',
 'mass': '260000',
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 'year': '2008-01-01T00:00:00.000',
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'reclat': '12.666670',
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 'year': '1865-01-01T00:00:00.000',
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 'geolocation': {'latitude': '26.71667', 'longitude': '84.21667'}},
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 'id': '55529',
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 'recclass': 'C',
 'mass': '992.5',
 'fall': 'Fell',
 'year': '2012-01-01T00:00:00.000',
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 'geolocation': {'latitude': '38.80389', 'longitude': '-120.90806'},
 ':@computed_region_cbhk_fwbd': '8',
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 ':@computed_region_cbhk_fwbd': '29',
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':@computed_region_nnqa_25f4': '1637'},
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 'geolocation': {'latitude': '49.4', 'longitude': '14.65'}},
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 'recclass': 'L5',
 'mass': '9000',
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 'year': '1867-01-01T00:00:00.000',
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 'reclong': '5.416670',
 'geolocation': {'latitude': '36.18333', 'longitude': '5.41667'}},
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 'mass': '10000',
 'fall': 'Fell',
 'year': '2000-01-01T00:00:00.000',
 'reclat': '59.704440',
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 'geolocation': {'latitude': '59.70444', 'longitude': '-134.20139'}},
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 'mass': '1000',
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 'geolocation': {'latitude': '34.72', 'longitude': '137.305'}},
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 'mass': '720',
 'fall': 'Fell',
 'year': '1880-01-01T00:00:00.000',
 'reclat': '35.383330',
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 'geolocation': {'latitude': '35.38333', 'longitude': '134.9'}},
{'name': 'Talampaya',
 'id': '23791',
 'nametype': 'Valid',
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 'mass': '1421',
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'fall': 'Fell',
 'year': '1995-01-01T00:00:00.000'},
{'name': 'Tambakwatu',
 'id': '23795',
 'nametype': 'Valid',
 'recclass': 'L6',
 'mass': '10500',
 'fall': 'Fell',
 'year': '1975-01-01T00:00:00.000',
 'reclat': '-7.750000',
 'reclong': '112.766670',
 'geolocation': {'latitude': '-7.75', 'longitude': '112.76667'}},
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 'id': '48691',
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 'recclass': 'H5',
 'mass': '100000',
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 'year': '2008-01-01T00:00:00.000',
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 'geolocation': {'latitude': '31.16333', 'longitude': '-7.015'}},
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 'recclass': 'L5',
 'mass': '905',
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 'year': '1918-01-01T00:00:00.000',
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 'geolocation': {'latitude': '35.43333', 'longitude': '136.23333'}},
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 'id': '23873',
 'nametype': 'Valid',
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 'mass': '3850',
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 'year': '1965-01-01T00:00:00.000',
 'reclat': '45.400000',
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 'geolocation': {'latitude': '45.4', 'longitude': '122.9'}},
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 'reclat': '32.950000',
 'reclong': '10.416670',
 'geolocation': {'latitude': '32.95', 'longitude': '10.41667'}},
{'name': 'Tathlith',
 'id': '23885',
 'nametype': 'Valid',
 'recclass': 'L6',
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'mass': '2500',
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 'recclass': 'L6',
 'mass': '6000',
 'fall': 'Fell',
 'year': '1929-01-01T00:00:00.000',
 'reclat': '35.133330',
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 'geolocation': {'latitude': '35.13333', 'longitude': '44.45'}},
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 'recclass': 'L6',
 'mass': '21000',
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 'year': '1937-01-01T00:00:00.000',
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 'geolocation': {'latitude': '46.71667', 'longitude': '23.5'}},
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 'year': '1879-01-01T00:00:00.000',
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 'reclong': '142.950000',
 'geolocation': {'latitude': '-25.73333', 'longitude': '142.95'}},
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 'id': '23898',
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 'mass': '28500',
 'fall': 'Fell',
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 'geolocation': {'latitude': '58.03333', 'longitude': '26.95'}},
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 'recclass': 'H6',
 'mass': '342',
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 'year': '1950-01-01T00:00:00.000',
 'reclat': '33.400000',
 'reclong': '70.600000',
 'geolocation': {'latitude': '33.4', 'longitude': '70.6'}},
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{'name': 'Thika',
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 'nametype': 'Valid',
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 'mass': '14200',
 'fall': 'Fell',
 'year': '2011-01-01T00:00:00.000',
 'reclat': '-1.002780',
 'reclong': '37.150280',
 'geolocation': {'latitude': '-1.00278', 'longitude': '37.15028'}},
{'name': 'Thuathe',
 'id': '23976',
 'nametype': 'Valid',
 'recclass': 'H4/5',
 'mass': '45300',
 'fall': 'Fell',
 'year': '2002-01-01T00:00:00.000',
 'reclat': '-29.333330',
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 'geolocation': {'latitude': '-29.33333', 'longitude': '27.58333'}},
{'name': 'Tianzhang',
 'id': '23984',
 'nametype': 'Valid',
 'recclass': 'H5',
 'mass': '2232',
 'fall': 'Fell',
 'year': '1986-01-01T00:00:00.000',
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 'reclong': '118.990000',
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 'mass': '28000',
 'fall': 'Fell',
 'year': '1878-01-01T00:00:00.000',
 'reclat': '49.600000',
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{'name': 'Tillaberi',
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'mass': '3000',
 'fall': 'Fell',
 'year': '1970-01-01T00:00:00.000',
 'reclat': '14.250000',
 'reclong': '1.533330',
 'geolocation': {'latitude': '14.25', 'longitude': '1.53333'}},
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 'nametype': 'Valid',
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 'mass': '65500',
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 'year': '1807-01-01T00:00:00.000',
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 'reclong': '35.200000',
 'geolocation': {'latitude': '54.5', 'longitude': '35.2'}},
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 'mass': '230',
 'fall': 'Fell',
 'year': '1934-01-01T00:00:00.000',
 'reclat': '13.633330',
 'reclong': '79.416670',
 'geolocation': {'latitude': '13.63333', 'longitude': '79.41667'}},
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 'reclat': '29.481950',
 'reclong': '-7.611230',
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 'nametype': 'Valid',
 'recclass': 'H6',
 'mass': '20000',
 'fall': 'Fell',
 'year': '1869-01-01T00:00:00.000',
 'reclat': '-7.083330',
 'reclong': '111.533330',
 'geolocation': {'latitude': '-7.08333', 'longitude': '111.53333'}},
{'name': 'Tjerebon',
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 'nametype': 'Valid',
 'recclass': 'L5',
 'mass': '16500',
 'fall': 'Fell',
 'year': '1922-01-01T00:00:00.000',
 'reclat': '-6.666670',
 'reclong': '106.583330',
 'geolocation': {'latitude': '-6.66667', 'longitude': '106.58333'}},
```

```
{'name': 'Tomakovka',
            'id': '24019',
            'nametype': 'Valid',
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            'mass': '600',
            'fall': 'Fell',
            'year': '1905-01-01T00:00:00.000',
            'reclat': '47.850000',
            'reclong': '34.766670',
            'geolocation': {'latitude': '47.85', 'longitude': '34.76667'}},
           ...]
In [20]: # creating dataframe from payLoad
         import pandas as pd
         df = pd.DataFrame(payload)
         df.head(3)
Out[20]:
              name id nametype recclass
                                             mass fall
                                                                 year
                                                                           reclat
                                                                                     reclong g
                                                              1880-01-
          0 Aachen 1
                             Valid
                                       L5
                                               21 Fell
                                                                       50.775000
                                                                                    6.083330
                                                        01T00:00:00.000
                                                              1951-01-
          1 Aarhus 2
                             Valid
                                       H6
                                              720 Fell
                                                                       56.183330
                                                                                   10.233330
                                                        01T00:00:00.000
                                                              1952-01-
              Abee 6
                             Valid
                                      EH4 107000 Fell
                                                                       54.216670 -113.000000
                                                        01T00:00:00.000
         import pandas as pd # importing pandas
In [23]:
         meteorites = pd.read_csv('Meteorite_Landings.csv') # assign dataframe to name/conta
In [24]: meteorites.shape #output [no. rows, no. columns]
Out[24]: (45716, 10)
In [25]: meteorites.columns # shows the column names
Out[25]: Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
                 'reclat', 'reclong', 'GeoLocation'],
                dtype='object')
In [27]: meteorites.dtypes # shows the data types per column
```

Out[27]: name object id int64 nametype object object recclass mass (g) float64 fall object object year float64 reclat reclong float64 GeoLocation object dtype: object

In [31]: meteorites.head(10) # shows the first nth number of data (uses 10 in this example)

In [31]:	me	teorites.	head(10) # shows	s the first	nth numbe	er of	data (uses	10 in this	s example)
Out[31]:		name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
	0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333
	1	Aarhus	2	Valid	Н6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333	10.23333
	2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667	-113.00000
	3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000
	4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667	-64.95000
	5	Adhi Kot	379	Valid	EH4	4239.0	Fell	01/01/1919 12:00:00 AM	32.10000	71.80000
	6	Adzhi- Bogdo (stone)	390	Valid	LL3-6	910.0	Fell	01/01/1949 12:00:00 AM	44.83333	95.16667
	7	Agen	392	Valid	H5	30000.0	Fell	01/01/1814 12:00:00 AM	44.21667	0.61667
	8	Aguada	398	Valid	L6	1620.0	Fell	01/01/1930 12:00:00 AM	-31.60000	-65.23333
	9	Aguila Blanca	417	Valid	L	1440.0	Fell	01/01/1920 12:00:00 AM	-30.86667	-64.55000

In [30]: meteorites.tail(5) # show the last nth number of data (uses 5 in this example)

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U	ш	т		-5	И	- 1	-

	name	id	nametype	recclass	mass (g)	fall	year	reclat	r
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	29.03700	17
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	13.78333	8
45713	Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	49.25000	17
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	49.78917	41
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333	-115
4									

In [33]: meteorites.info() # shows index range, column name, number of NON EMPTY row of data

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 45716 entries, 0 to 45715
Data columns (total 10 columns):

#	Column	Non-Null Count	Dtype
0	name	45716 non-null	object
1	id	45716 non-null	int64
2	nametype	45716 non-null	object
3	recclass	45716 non-null	object
4	mass (g)	45585 non-null	float64
5	fall	45716 non-null	object
6	year	45425 non-null	object
7	reclat	38401 non-null	float64
8	reclong	38401 non-null	float64
9	GeoLocation	38401 non-null	object
d+vn	os • float6//3) in+64(1) ohi	oct(6)

dtypes: float64(3), int64(1), object(6)

memory usage: 3.5+ MB

In [35]: meteorites['name','year'] # error due to not using list in accessing multiple column

```
KeyError
                                          Traceback (most recent call last)
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:3805, in
Index.get_loc(self, key)
  3804 try:
-> 3805
            return self._engine.get_loc(casted_key)
  3806 except KeyError as err:
File index.pyx:167, in pandas._libs.index.IndexEngine.get_loc()
File index.pyx:196, in pandas. libs.index.IndexEngine.get loc()
File pandas\\_libs\\hashtable_class_helper.pxi:7081, in pandas._libs.hashtable.PyObj
ectHashTable.get_item()
File pandas\\ libs\\hashtable class helper.pxi:7089, in pandas. libs.hashtable.PyObj
ectHashTable.get_item()
KeyError: ('name', 'year')
The above exception was the direct cause of the following exception:
KeyError
                                         Traceback (most recent call last)
Cell In[35], line 1
----> 1 meteorites['name','year']
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\frame.py:4102, in DataFr
ame.__getitem__(self, key)
  4100 if self.columns.nlevels > 1:
            return self._getitem_multilevel(key)
-> 4102 indexer = self.columns.get_loc(key)
  4103 if is_integer(indexer):
           indexer = [indexer]
  4104
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:3812, in
Index.get_loc(self, key)
  3807
           if isinstance(casted_key, slice) or (
  3808
                isinstance(casted_key, abc.Iterable)
                and any(isinstance(x, slice) for x in casted_key)
  3809
  3810
           ):
                raise InvalidIndexError(key)
  3811
-> 3812
           raise KeyError(key) from err
  3813 except TypeError:
          # If we have a listlike key, _check_indexing_error will raise
  3814
           # InvalidIndexError. Otherwise we fall through and re-raise
  3815
  3816
          # the TypeError.
  3817
          self._check_indexing_error(key)
KeyError: ('name', 'year')
```

Out[36]:		name	year
	0	Aachen	01/01/1880 12:00:00 AM
	1	Aarhus	01/01/1951 12:00:00 AM
	2	Abee	01/01/1952 12:00:00 AM
	3	Acapulco	01/01/1976 12:00:00 AM
	4	Achiras	01/01/1902 12:00:00 AM
	•••		
	45711	Zillah 002	01/01/1990 12:00:00 AM
	45712	Zinder	01/01/1999 12:00:00 AM
	45713	Zlin	01/01/1939 12:00:00 AM
	45714	Zubkovsky	01/01/2003 12:00:00 AM
	45715	Zulu Queen	01/01/1976 12:00:00 AM

45716 rows × 2 columns

In [37]: meteorites[100:104] # uses python indexing/slicing to call data; NOTE: Last index

\cap .	4- [27	т.
υu	니	5/	.

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclon
100	Benton	5026	Valid	LL6	2840.0	Fell	01/01/1949 12:00:00 AM	45.95000	-67.5500
101	Berduc	48975	Valid	L6	270.0	Fell	01/01/2008 12:00:00 AM	-31.91000	-58.3283
102	Béréba	5028	Valid	Eucrite- mmict	18000.0	Fell	01/01/1924 12:00:00 AM	11.65000	-3.6500
103	Berlanguillas	5029	Valid	L6	1440.0	Fell	01/01/1811 12:00:00 AM	41.68333	-3.8000
4									•

In [38]: meteorites.iloc[100:104, [0,3,4,6]] # use positional indexing

Out[38]:		r	name	recclas	ss mass (g)			year			
	100	В в	enton	LI	_6 2840.0	01/01/	1949	12:00:00 AM			
	101	l Be	erduc	l	_6 270.0	01/01/	2008	12:00:00 AM			
	102	2 Be	éréba	Eucrite-mmi	ct 18000.0	01/01/	1924	12:00:00 AM			
	103	B Berlang	uillas	l	_6 1440.0	01/01/	1811	12:00:00 AM			
Tn [20].	mot	conitos	ilosī	[0,3,4,6]]							
In [39]:	ille	eorites.	1100[[0,5,4,6]]							
Out[39]:		name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong	Ge
	0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333	
	3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000	
	4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667	-64.95000	
	6	Adzhi- Bogdo (stone)	390	Valid	LL3-6	910.0	Fell	01/01/1949 12:00:00 AM	44.83333	95.16667	
	4										•
In [40]:	met	eorites.	loc[1	00:104, 'ma	ss (g)':'ye	ar'] #	can	use positio	nal and na	mes	
Out[40]:		mass (g	g) fal	II	yea	r					
	100	2840	.0 Fe	II 01/01/194	9 12:00:00 AN	1					
	101	270	.0 Fe	II 01/01/200	8 12:00:00 AN	1					
	102	18000	.0 Fe	II 01/01/192	4 12:00:00 AN	1					
	103	1440	.0 Fe	II 01/01/181	1 12:00:00 AM	1					
	104	1 960	.0 Fe	II 01/01/200	4 12:00:00 AN	1					

In [41]: meteorites.iloc[100:104, 'mass (g)':'year'] # iloc is stricly indexing

```
TypeError
                                         Traceback (most recent call last)
Cell In[41], line 1
----> 1 meteorites.iloc[100:104, 'mass (g)':'year']
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexing.py:1184, in _Lo
cationIndexer. getitem (self, key)
           if self._is_scalar_access(key):
  1182
  1183
                return self.obj._get_value(*key, takeable=self._takeable)
-> 1184 return self._getitem_tuple(key)
  1185 else:
  1186
          # we by definition only have the 0th axis
  1187
           axis = self.axis or 0
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexing.py:1694, in _iL
ocIndexer. getitem tuple(self, tup)
  1691 with suppress(IndexingError):
            return self._getitem_lowerdim(tup)
  1692
-> 1694 return self._getitem_tuple_same_dim(tup)
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexing.py:1020, in _Lo
cationIndexer._getitem_tuple_same_dim(self, tup)
  1017 if com.is null slice(key):
           continue
  1018
-> 1020 retval = getattr(retval, self.name)._getitem_axis(key, axis=i)
  1021 # We should never have retval.ndim < self.ndim, as that should
  1022 # be handled by the _getitem_lowerdim call above.
  1023 assert retval.ndim == self.ndim
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexing.py:1729, in _iL
ocIndexer._getitem_axis(self, key, axis)
  1723
          raise IndexError(
                "DataFrame indexer is not allowed for .iloc\n"
  1724
  1725
                "Consider using .loc for automatic alignment."
  1726
  1728 if isinstance(key, slice):
-> 1729
          return self._get_slice_axis(key, axis=axis)
  1731 if is iterator(key):
  1732
          key = list(key)
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexing.py:1764, in _iL
ocIndexer._get_slice_axis(self, slice_obj, axis)
           return obj.copy(deep=False)
  1761
  1763 labels = obj._get_axis(axis)
-> 1764 labels._validate_positional_slice(slice_obj)
  1765 return self.obj._slice(slice_obj, axis=axis)
File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:4197, in
Index._validate_positional_slice(self, key)
  4191 @final
  4192 def _validate_positional_slice(self, key: slice) -> None:
  4193
  4194
            For positional indexing, a slice must have either int or None
  4195
           for each of start, stop, and step.
  4196
-> 4197
           self._validate_indexer("positional", key.start, "iloc")
```

```
4198
                    self._validate_indexer("positional", key.stop, "iloc")
                    self._validate_indexer("positional", key.step, "iloc")
           4199
        File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:6697, in
        Index._validate_indexer(self, form, key, kind)
           6692 """
           6693 If we are positional indexer, validate that we have appropriate
           6694 typed bounds must be an integer.
           6696 if not lib.is_int_or_none(key):
                    self._raise_invalid_indexer(form, key)
        -> 6697
        File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:4301, in
        Index._raise_invalid_indexer(self, form, key, reraise)
           4299 if reraise is not lib.no default:
           4300
                    raise TypeError(msg) from reraise
        -> 4301 raise TypeError(msg)
        TypeError: cannot do positional indexing on Index with these indexers [mass (g)] of
        type str
In [44]: meteorites.iloc[-1, -1] # outputs the last row and last column
Out[44]: '(33.98333, -115.68333)'
In [46]: # Boolean mask
         # Here you can you bitwise operators (&, |, `) or logical (AND, OR)
         (meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')
Out[46]: 0
                   False
         1
                   False
          2
                   False
          3
                   False
          4
                   False
                   . . .
         45711
                   True
          45712
                  False
          45713
                  False
         45714
                   True
         45715
                   True
         Length: 45716, dtype: bool
In [48]: | meteorites[(meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')] # outputs
```

_			
() i	14-1	71.92	
Vι	4 L I	+0	

	name	id	nametype	recclass	mass (g)	fall	year	reclat	
37	Northwest Africa 5815	50693	Valid	L5	256.80	Found	NaN	0.00000	
757	Dominion Range 03239	32591	Valid	L6	69.50	Found	01/01/2002 12:00:00 AM	NaN	
804	Dominion Range 03240	32592	Valid	LL5	290.90	Found	01/01/2002 12:00:00 AM	NaN	
1111	Abajo	4	Valid	Н5	331.00	Found	01/01/1982 12:00:00 AM	26.80000	-1
1112	Abar al' Uj 001	51399	Valid	H3.8	194.34	Found	01/01/2008 12:00:00 AM	22.72192	
•••			•••						
45709	Zhongxiang	30406	Valid	Iron	100000.00	Found	01/01/1981 12:00:00 AM	31.20000	1
45710	Zillah 001	31355	Valid	L6	1475.00	Found	01/01/1990 12:00:00 AM	29.03700	
45711	Zillah 002	31356	Valid	Eucrite	172.00	Found	01/01/1990 12:00:00 AM	29.03700	
45714	Zubkovsky	31357	Valid	L6	2167.00	Found	01/01/2003 12:00:00 AM	49.78917	
45715	Zulu Queen	30414	Valid	L3.7	200.00	Found	01/01/1976 12:00:00 AM	33.98333	-1

18854 rows × 10 columns

1 **—**

In [49]: meteorites.query("`mass (g)` > 1e6 and fall == 'Fell'")

```
Out[49]:
                 name
                            id nametype recclass
                                                      mass (g) fall
                                                                                   reclat
                                                                                            reclon
                                                                          year
                                                                    01/01/1969
           29
                Allende
                         2278
                                     Valid
                                              CV3
                                                     2000000.0 Fell
                                                                       12:00:00
                                                                                26.96667 -105.3166
                                                                           AM
                                                                    01/01/1976
          419
                   Jilin 12171
                                     Valid
                                               H5
                                                                       12:00:00
                                                                                44.05000
                                                    4000000.0 Fell
                                                                                           126.1666
                                                                           AM
                                                                    01/01/1998
                 Kunya-
          506
                        12379
                                     Valid
                                               H5
                                                     1100000.0 Fell
                                                                       12:00:00
                                                                                42.25000
                                                                                            59.2000
               Urgench
                                                                           AM
                                                                    01/01/1948
                Norton
          707
                        17922
                                     Valid
                                           Aubrite
                                                     1100000.0 Fell
                                                                       12:00:00
                                                                                39.68333
                                                                                           -99.8666
                County
                                                                           AM
                                                                    01/01/1947
               Sikhote-
                                              Iron,
                                                    23000000.0 Fell
          920
                        23593
                                     Valid
                                                                       12:00:00
                                                                                46.16000
                                                                                           134.6533
                                              IIAB
                   Alin
                                                                           AM
         meteorites.fall.value_counts() # counts the values in the used column using DOT ope
In [50]:
Out[50]: fall
          Found
                    44609
          Fell
                     1107
          Name: count, dtype: int64
In [52]: # checking unique values to a specific subset of dataframe; normalize TRUE is used
          meteorites.value_counts(subset = ['nametype', 'fall'], normalize = True)
Out[52]: nametype fall
          Valid
                     Found
                              0.974145
                     Fell
                              0.024215
          Relict
                     Found
                              0.001641
          Name: proportion, dtype: float64
In [53]: # checking unique values to a specific subset of dataframe; normalize FALSE is use
          meteorites.value_counts(subset = ['nametype', 'fall'], normalize = False)
                    fall
          nametype
Out[53]:
          Valid
                     Found
                              44534
                     Fell
                               1107
          Relict
                     Found
                                 75
          Name: count, dtype: int64
In [56]:
          float(meteorites['mass (g)'].mean()) # shows the mean of the chosen column; cast t
Out[56]: numpy.float64
         type(meteorites['mass (g)'].mean()) # checks type
In [57]:
Out[57]: numpy.float64
```

```
In [60]: meteorites['mass (g)'].quantile([0.01, 0.05, 0.5, 0.95, 0.99]) # shows quartile
Out[60]: 0.01
                     0.44
         0.05
                      1.10
         0.50
                     32.60
         0.95
                  4000.00
         0.99
                 50600.00
         Name: mass (g), dtype: float64
In [59]: meteorites['mass (g)'].median() # shows median value
Out[59]: 32.6
         meteorites['mass (g)'].max() # shows the maximum value
In [61]:
Out[61]: 6000000.0
In [63]: meteorites.loc[meteorites['mass (g)'].idxmax()] # shows the index of the maximum va
Out[63]: name
                                          Hoba
          id
                                         11890
                                         Valid
         nametype
         recclass
                                      Iron, IVB
         mass (g)
                                     60000000.0
         fall
                                          Found
                       01/01/1920 12:00:00 AM
         year
         reclat
                                      -19.58333
         reclong
                                      17.91667
         GeoLocation
                        (-19.58333, 17.91667)
         Name: 16392, dtype: object
In [64]: meteorites.recclass.nunique() # shows the number of unique values
Out[64]: 466
In [66]: meteorites.name.nunique()
Out[66]: 45716
In [69]: meteorites.recclass.unique() # outputs the ungie values
```

```
Out[69]: array(['L5', 'H6', 'EH4', 'Acapulcoite', 'L6', 'LL3-6', 'H5', 'L',
                 'Diogenite-pm', 'Unknown', 'H4', 'H', 'Iron, IVA', 'CR2-an', 'LL5',
                 'CI1', 'L/LL4', 'Eucrite-mmict', 'CV3', 'Ureilite-an',
                 'Stone-uncl', 'L3', 'Angrite', 'LL6', 'L4', 'Aubrite',
                 'Iron, IIAB', 'Iron, IAB-sLL', 'Iron, ungrouped', 'CM2', 'OC',
                 'Mesosiderite-A1', 'LL4', 'C2-ung', 'LL3.8', 'Howardite',
                 'Eucrite-pmict', 'Diogenite', 'LL3.15', 'LL3.9', 'Iron, IAB-MG',
                 'H/L3.9', 'Iron?', 'Eucrite', 'H4-an', 'L/LL6', 'Iron, IIIAB',
                 'H/L4', 'H4-5', 'L3.7', 'LL3.4', 'Martian (chassignite)', 'EL6',
                 'H3.8', 'H3-5', 'H5-6', 'Mesosiderite', 'H5-7', 'L3-6', 'H4-6',
                 'Ureilite', 'Iron, IID', 'Mesosiderite-A3/4', 'CO3.3', 'H3',
                 'EH3/4-an', 'Iron, IIE', 'L/LL5', 'H3.7', 'CBa', 'H4/5', 'H3/4',
                 'H?', 'H3-6', 'L3.4', 'Iron, IAB-sHL', 'L3.7-6', 'EH7-an', 'Iron',
                 'CR2', 'CO3.2', 'K3', 'L5/6', 'CK4', 'Iron, IIE-an', 'L3.6',
                 'LL3.2', 'Pallasite', 'CO3.5', 'Lodranite', 'Mesosiderite-A3',
                 'L3-4', 'H5/6', 'Pallasite, PMG', 'Eucrite-cm', 'L5-6', 'C03.6',
                 'Martian (nakhlite)', 'LL3.6', 'C3-ung', 'H3-4', 'C03.4', 'EH3',
                 'Iron, IAB-ung', 'Winonaite', 'LL', 'Eucrite-br', 'Iron, IIF',
                 'R3.8-6', 'L4-6', 'EH5', 'LL3.00', 'H3.4', 'Martian (shergottite)',
                 'Achondrite-ung', 'LL3.3', 'C', 'H/L3.6', 'Iron, IIIAB-an', 'LL7',
                 'Mesosiderite-B2', 'LL4-6', 'CO3.7', 'L/LL6-an',
                 'Iron, IAB complex', 'Pallasite, PMG-an', 'H3.9/4', 'L3.8',
                 'LL5-6', 'LL3.8-6', 'L3.9', 'L4-5', 'L3-5', 'LL4/5', 'L4/5',
                 'H3.9', 'H3.6-6', 'H3.8-5', 'H3.8/4', 'H3.9-5', 'CH3', 'R3.8-5',
                 'L3.9/4', 'E4', 'C03', 'Chondrite-ung', 'H~5', 'H~6', 'L/LL3.10',
                 'EL5', 'LL3', 'L~6', 'L~3', 'H~4', 'L(LL)3.5-3.7', 'Iron, IIIE-an',
                 'H3.6', 'L3.4-3.7', 'L3.5', 'CM1/2', 'Martian (OPX)', 'Brachinite',
                 'LL7(?)', 'LL6(?)', 'Eucrite-Mg rich', 'H3.5-4', 'EL3', 'R3.6',
                 'H3.5', 'CM1', 'L/LL3', 'H7', 'L(?)3', 'L3.2', 'L3.7-3.9',
                 'Mesosiderite-B1', 'Eucrite-unbr', 'LL3.7', 'CO3.0', 'LL3.5',
                 'L3.7-4', 'CV3-an', 'Lunar (anorth)', 'L3.3', 'Iron, IAB-sLM',
                 'Lunar', 'Iron, IC', 'Iron, IID-an', 'Iron, IIIE', 'Iron, IVA-an',
                 'CK6', 'L3.1', 'CK5', 'H3.3', 'H3.7-6', 'E6', 'H3.0', 'H3.1',
                 'L3.0', 'L/LL3.4', 'C6', 'LL3.0', 'Lunar (gabbro)', 'R4', 'C4',
                 'Iron, IIG', 'Iron, IIC', 'C1-ung', 'H5-an', 'EH4/5', 'Iron, IIIF',
                 'R3-6', 'Mesosiderite-B4', 'L6/7', 'Relict H', 'L-imp melt', 'CK3',
                 'H3-an', 'Iron, IVB', 'R3.8', 'L~5', 'Mesosiderite-an',
                 'Mesosiderite-A2', 'Pallasite, PES', 'C4-ung', 'Iron, IAB?',
                 'Mesosiderite-A', 'R3.5-6', 'H3.9-6', 'Ureilite-pmict', 'LL~6',
                 'CK4/5', 'EL4', 'Lunar (feldsp. breccia)', 'L3.9-6', 'H-an',
                 'L/LL3-6', 'L/LL3-5', 'H/L3.5', 'H/L3', 'R3-4', 'CK3-an', 'LL4-5',
                 'H/L6', 'L3/4', 'H-imp melt', 'CR', 'Chondrite-fusion crust',
                 'Iron, IAB-sLH', 'H(L)3-an', 'L(LL)3', 'H(L)3', 'R3', 'L7',
                 'CM-an', 'L/LL~6', 'L/LL~5', 'L~4', 'L/LL~4', 'LL(L)3', 'H3.2',
                 'L-melt breccia', 'H6-melt breccia', 'H5-melt breccia',
                 'H-melt rock', 'Eucrite-an', 'Lunar (bas/anor)', 'LL5/6', 'LL3/4',
                 'H3.4/3.5', 'Lunar (basalt)', 'H/L5', 'H(5?)', 'LL-imp melt',
                 'Mesosiderite?', 'H~4/5', 'L6-melt breccia', 'L3.5-3.7',
                 'Iron, IIAB-an', 'L3.3-3.7', 'L3.2-3.6', 'L3.3-3.6',
                 'Acapulcoite/Lodranite', 'Mesosiderite-B', 'CK5/6', 'L3.05', 'C2',
                 'C4/5', 'L/LL3.2', 'Iron, IIIAB?', 'L3.5-5', 'L/LL(?)3', 'H4(?)',
                 'Iron, IAB-sHH', 'Relict iron', 'EL4/5', 'L5-7', 'Diogenite-an',
                 'L-melt rock', 'CR1', 'H5 ', 'L5 ', 'H4 ', 'L4 ', 'E', 'L6 ',
                 'H3 ', 'LL6 ', 'H-metal', 'H6 ', 'L-metal', 'Relict OC'
                 'Mesosiderite-A4', 'L/LL5/6', 'H3.8-4', 'CBb', 'EL6/7', 'EL7',
                 'CH/CBb', 'CO3.8', 'H/L~4', 'Mesosiderite-C2', 'R5', 'H4/6',
```

```
'H3.7-5', 'LL3.7-6', 'H3.7/3.8', 'L3.7/3.8', 'EH-imp melt', 'R',
'Fusion crust', 'Aubrite-an', 'R6', 'LL-melt rock', 'L3.5-3.9',
'L3.2-3.5', 'L3.3-3.5', 'L3.0-3.7', 'E3-an', 'K', 'E3',
'Acapulcoite/lodranite', 'CK4-an', 'L(LL)3.05', 'L3.10', 'CB',
'Diogenite-olivine', 'EL-melt rock', 'EH6', 'Pallasite, ungrouped',
'L/LL4/5', 'L3.8-an', 'Iron, IAB-an', 'C5/6-ung', 'CV2',
'Iron, IC-an', 'Lunar (bas. breccia)', 'L3.8-6', 'R3/4', 'R3.9',
'CK', 'LL3.10', 'R4/5', 'L3.8-5', 'Mesosiderite-C', 'Enst achon',
'H/L3-4', 'L(H)3', 'LL6/7', 'LL3.1', 'OC3', 'R3.7', 'CO3 ', 'CH3 ',
'LL~4', 'LL~4/5', 'L(LL)~4', 'H3.05', 'H3.10',
'Impact melt breccia', 'LL3-5', 'H/L3.7', 'LL3-4', 'CK3/4',
'Martian', 'CO3.1', 'Lunar (bas/gab brec)', 'Achondrite-prim',
'LL<3.5', 'CK3.8', 'L/LL-melt rock', 'H6/7', 'EL6 ',
'Iron, IAB-sHL-an', 'CM2-an', 'R3-5', 'L4-melt rock',
'L6-melt rock', 'H/L4/5', 'EL3/4', 'H/L6-melt rock',
'Enst achon-ung', 'L3-7', 'R3.4', 'LL3.05', 'LL4/6', 'LL3.8-4',
'H3.15', 'C3.0-ung', 'LL-melt breccia', 'LL6-melt breccia',
'L5-melt breccia', 'LL(L)3.1', 'LL6-an', 'L4-melt breccia',
'Howardite-an', 'H4-melt breccia', 'Martian (basaltic breccia)',
'L3-melt breccia', 'L~4-6', 'LL~5', 'R3.5-4', 'CR7',
'H-melt breccia', 'Lunar (norite)', 'L3.00', 'H3.0-3.4', 'L/LL4-6',
'CM', 'EH7', 'L4-an', 'E-an', 'H3.8/3.9', 'L3.9-5', 'H3.8-6',
'H3.4-5', 'L3.0-3.9', 'L3.5-3.8', 'H3.2-3.7', 'L3.6-4',
'Iron, IIE?', 'C3/4-ung', 'L/LL3.5', 'L/LL3.6/3.7', 'H/L4-5',
'LL~3', 'Pallasite?', 'LL5-7', 'LL3.9/4', 'H3.8-an', 'CR-an',
'L/LL5-6', 'L(LL)5', 'L(LL)6', 'LL3.1-3.5', 'E5', 'Lodranite-an',
'H3.2-6', 'H(?)4', 'E5-an', 'H3.2-an', 'EH6-an', 'Stone-ung',
'C1/2-ung', 'L/LL'], dtype=object)
```

In [70]: meteorites.describe() # shows summary statistics of each column

Out[70]: id mass (g) reclat reclong **count** 45716.000000 4.558500e+04 38401.000000 38401.000000 61.074319 **mean** 26889.735104 1.327808e+04 -39.122580 16860.683030 5.749889e+05 46.378511 80.647298 min 1.000000 0.000000e+00 -87.366670 -165.433330 12688.750000 7.200000e+00 -76.714240 0.000000 **50%** 24261.500000 3.260000e+01 -71.500000 35.666670 **75%** 40656.750000 2.026000e+02 0.000000 157.166670 max 57458.000000 6.000000e+07 354.473330

```
In [ ]:
In [ ]:
```

81.166670

Using the 2019_Yellow_Taxi_Trip_Data.csv dataset, accomplish the following items and submit a PDF of the notebook:

- 1. Create a DataFrame by reading in the 2019_Yellow_Taxi_Trip_Data.csv file. Examine the first 5 rows.
- 2. Find the dimensions (number of rows and number of columns) in the data.
- 3. Using the data in the 2019_Yellow_Taxi_Trip_Data.csv file, calculate summary statistics for the fare_amount, tip_amount, tolls_amount, and total_amount columns.
- 4. Isolate the fare_amount, tip_amount, tolls_amount, and total_amount for the longest trip by distance (trip_distance).

```
In [71]: # 1
   import pandas as pd
   df = pd.read_csv('2019_Yellow_Taxi_Trip_Data.csv') # Load the dataframe

   df.head(5) # examine the first five rows
```

Out[71]:		vendorid	tpep_pickup_datetime	tpep_dropoff_datetime	passenger_count	trip_distance
	0	2	2019-10- 23T16:39:42.000	2019-10- 23T17:14:10.000	1	7.93
	1	1	2019-10- 23T16:32:08.000	2019-10- 23T16:45:26.000	1	2.00
	2	2	2019-10- 23T16:08:44.000	2019-10- 23T16:21:11.000	1	1.36
	3	2	2019-10- 23T16:22:44.000	2019-10- 23T16:43:26.000	1	1.00
	4	2	2019-10- 23T16:45:11.000	2019-10- 23T16:58:49.000	1	1.96
	4					•

```
In [73]: # 2
df.shape # shows the dimensions of the dataframe (rows, columns)
```

Out[73]: (10000, 18)

```
In [78]: # 3
    df[['fare_amount', 'tip_amount', 'total_amount']].describe()
    # using list accessing to output the descriptive statistic for specific columns
```

	fare_amount	tip_amount	tolls_amount	total_amount
count	10000.000000	10000.000000	10000.000000	10000.000000
mean	15.106313	2.634494	0.623447	22.564659
std	13.954762	3.409800	6.437507	19.209255
min	-52.000000	0.000000	-6.120000	-65.920000
25%	7.000000	0.000000	0.000000	12.375000
50%	10.000000	2.000000	0.000000	16.300000
75%	16.000000	3.250000	0.000000	22.880000
max	176.000000	43.000000	612.000000	671.800000

In [81]: # 4

df.loc[df['trip_distance'].idxmax()][['fare_amount', 'tip_amount', 'tolls_amount',

''' First is to use the loc method and declare which column to find the maximum val us to find the row with the max value for the distance. Then the column list afterw which columns from the row to output'''

Out[81]: fare_amount 176.0 tip amount 18.29

tolls_amount 6.12 total_amount 201.21 Name: 8338, dtype: object

Conclusion / Reflection

After learning some of the basic functions and methods in python pandas I am now able to create dataframes by loading from other files. The different functions or attributes in the python pandas help me gain insight about the data I am loading. I think the syntax was easy follow and their function was straightforward so most of them is easy to remember. My learnings were tested in the first exercise which was okay for me. The first two tasks wer easy to understand and I was able to accomplish it immediately. However, I think I still need to learn how to perform operations or analysis while accesing multiple columns. This is because I had to trial error different types of accessing the columns needed. I think I need to practice more on that area and perform different operations when dealing with using multiple columns.