

```
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]:
```

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
0	Aachen	1	Valid	L5	21	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333
1	Aarhus	2	Valid	H6	720	Fell	01/01/1951 12:00:00 AM	56.18333	10.23333
2	Abee	6	Valid	EH4	107000	Fell	01/01/1952 12:00:00 AM	54.21667	-113.00000
3	Acapulco	10	Valid	Acapulcoite	1914	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000
4	Achiras	370	Valid	L6	780	Fell	01/01/1902 12:00:00 AM	-33.16667	-64.95000

```
In [8]: meteorites.name # method to find values in the name column
```

```
Out[8]: 0    Aachen
1    Aarhus
2    Abee
3    Acapulco
4    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)
```

```
In [14]: # Using API in dataframe (INCORRECT)
import requests

response = requests.get(
```

```

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

if response.ok:
    payload = response.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 [16]: # Using API in dataframe (CORRECT)
import requests # library

response = requests.get( # method to get the data
    'https://data.nasa.gov/resource/gh4g-9sfh.json', # Link to where to get the dat
    params = {'$limit': 50_000}
)

if response.ok: # if successful it will output the data
    payload = response.json()

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

```

```

In [19]: payload

```

```

Out[19]: [{ 'name': 'Aachen',
            'id': '1',
            'nametype': 'Valid',
            'recclass': 'L5',
            'mass': '21',
            'fall': 'Fell',
            'year': '1880-01-01T00:00:00.000',
            'reclat': '50.775000',
            'reclong': '6.083330',
            'geolocation': { 'latitude': '50.775', 'longitude': '6.08333' } },
  { 'name': 'Aarhus',
    'id': '2',
    'nametype': 'Valid',
    'recclass': 'H6',
    'mass': '720',
    'fall': 'Fell',
    'year': '1951-01-01T00:00:00.000',
    'reclat': '56.183330',
    'reclong': '10.233330',
    'geolocation': { 'latitude': '56.18333', 'longitude': '10.23333' } },
  { 'name': 'Abee',
    'id': '6',
    'nametype': 'Valid',
    'recclass': 'EH4',
    'mass': '107000',
    'fall': 'Fell',
    'year': '1952-01-01T00:00:00.000',
    'reclat': '54.216670',
    'reclong': '-113.000000',
    'geolocation': { 'latitude': '54.21667', 'longitude': '-113.0' } },
  { 'name': 'Acapulco',
    'id': '10',
    'nametype': 'Valid',
    'recclass': 'Acapulcoite',
    'mass': '1914',
    'fall': 'Fell',
    'year': '1976-01-01T00:00:00.000',
    'reclat': '16.883330',
    'reclong': '-99.900000',
    'geolocation': { 'latitude': '16.88333', 'longitude': '-99.9' } },
  { 'name': 'Achiras',
    'id': '370',
    'nametype': 'Valid',
    'recclass': 'L6',
    'mass': '780',
    'fall': 'Fell',
    'year': '1902-01-01T00:00:00.000',
    'reclat': '-33.166670',
    'reclong': '-64.950000',
    'geolocation': { 'latitude': '-33.16667', 'longitude': '-64.95' } },
  { 'name': 'Adhi Kot',
    'id': '379',
    'nametype': 'Valid',
    'recclass': 'EH4',
    'mass': '4239',
    'fall': 'Fell',

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'year': '1919-01-01T00:00:00.000',
'reclat': '32.100000',
'reclong': '71.800000',
'geolocation': {'latitude': '32.1', 'longitude': '71.8'}},
{'name': 'Adzhi-Bogdo (stone)',
'id': '390',
'nametype': 'Valid',
'recclass': 'LL3-6',
'mass': '910',
'fall': 'Fell',
'year': '1949-01-01T00:00:00.000',
'reclat': '44.833330',
'reclong': '95.166670',
'geolocation': {'latitude': '44.83333', 'longitude': '95.16667'}},
{'name': 'Agen',
'id': '392',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '30000',
'fall': 'Fell',
'year': '1814-01-01T00:00:00.000',
'reclat': '44.216670',
'reclong': '0.616670',
'geolocation': {'latitude': '44.21667', 'longitude': '0.61667'}},
{'name': 'Aguada',
'id': '398',
'nametype': 'Valid',
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'mass': '1620',
'fall': 'Fell',
'year': '1930-01-01T00:00:00.000',
'reclat': '-31.600000',
'reclong': '-65.233330',
'geolocation': {'latitude': '-31.6', 'longitude': '-65.23333'}},
{'name': 'Aguila Blanca',
'id': '417',
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'recclass': 'L',
'mass': '1440',
'fall': 'Fell',
'year': '1920-01-01T00:00:00.000',
'reclat': '-30.866670',
'reclong': '-64.550000',
'geolocation': {'latitude': '-30.86667', 'longitude': '-64.55'}},
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'id': '423',
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'mass': '1000',
'fall': 'Fell',
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'reclat': '16.398060',
'reclong': '-9.570280',
'geolocation': {'latitude': '16.39806', 'longitude': '-9.57028'}},
{'name': 'Aïr',
'id': '424',

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    'nametype': 'Valid',
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    'mass': '24000',
    'fall': 'Fell',
    'year': '1925-01-01T00:00:00.000',
    'reclat': '19.083330',
    'reclong': '8.383330',
    'geolocation': {'latitude': '19.08333', 'longitude': '8.38333'}},
{'name': 'Aire-sur-la-Lys',
 'id': '425',
 'nametype': 'Valid',
 'recclass': 'Unknown',
 'fall': 'Fell',
 'year': '1769-01-01T00:00:00.000',
 'reclat': '50.666670',
 'reclong': '2.333330',
 'geolocation': {'latitude': '50.66667', 'longitude': '2.33333'}},
{'name': 'Akaba',
 'id': '426',
 'nametype': 'Valid',
 'recclass': 'L6',
 'mass': '779',
 'fall': 'Fell',
 'year': '1949-01-01T00:00:00.000',
 'reclat': '29.516670',
 'reclong': '35.050000',
 'geolocation': {'latitude': '29.51667', 'longitude': '35.05'}},
{'name': 'Akbarpur',
 'id': '427',
 'nametype': 'Valid',
 'recclass': 'H4',
 'mass': '1800',
 'fall': 'Fell',
 'year': '1838-01-01T00:00:00.000',
 'reclat': '29.716670',
 'reclong': '77.950000',
 'geolocation': {'latitude': '29.71667', 'longitude': '77.95'}},
{'name': 'Akwanga',
 'id': '432',
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 'mass': '3000',
 'fall': 'Fell',
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 'id': '433',
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 'recclass': 'Iron, IVA',
 'mass': '50000',
 'fall': 'Fell',
 'year': '1981-01-01T00:00:00.000',
 'reclat': '39.916670',
 'reclong': '42.816670',

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    'geolocation': {'latitude': '39.91667', 'longitude': '42.81667'}},
{'name': 'Al Rais',
 'id': '446',
 'nametype': 'Valid',
 'recclass': 'CR2-an',
 'mass': '160',
 'fall': 'Fell',
 'year': '1957-01-01T00:00:00.000',
 'reclat': '24.416670',
 'reclong': '39.516670',
 'geolocation': {'latitude': '24.41667', 'longitude': '39.51667'}},
{'name': 'Al Zarnkh',
 'id': '447',
 'nametype': 'Valid',
 'recclass': 'LL5',
 'mass': '700',
 'fall': 'Fell',
 'year': '2001-01-01T00:00:00.000',
 'reclat': '13.660330',
 'reclong': '28.960000',
 'geolocation': {'latitude': '13.66033', 'longitude': '28.96'}},
{'name': 'Alais',
 'id': '448',
 'nametype': 'Valid',
 'recclass': 'CI1',
 'mass': '6000',
 'fall': 'Fell',
 'year': '1806-01-01T00:00:00.000',
 'reclat': '44.116670',
 'reclong': '4.083330',
 'geolocation': {'latitude': '44.11667', 'longitude': '4.08333'}},
{'name': 'Albareto',
 'id': '453',
 'nametype': 'Valid',
 'recclass': 'L/LL4',
 'mass': '2000',
 'fall': 'Fell',
 'year': '1766-01-01T00:00:00.000',
 'reclat': '44.650000',
 'reclong': '11.016670',
 'geolocation': {'latitude': '44.65', 'longitude': '11.01667'}},
{'name': 'Alberta',
 'id': '454',
 'nametype': 'Valid',
 'recclass': 'L',
 'mass': '625',
 'fall': 'Fell',
 'year': '1949-01-01T00:00:00.000',
 'reclat': '2.000000',
 'reclong': '22.666670',
 'geolocation': {'latitude': '2.0', 'longitude': '22.66667'}},
{'name': 'Alby sur Chéran',
 'id': '458',
 'nametype': 'Valid',
 'recclass': 'Eucrite-mmict',
 'mass': '252',

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```

'fall': 'Fell',
'year': '2002-01-01T00:00:00.000',
'reclat': '45.821330',
'reclong': '6.015330',
'geolocation': {'latitude': '45.82133', 'longitude': '6.01533'}},
{'name': 'Aldsworth',
'id': '461',
'nametype': 'Valid',
'recclass': 'LL5',
'mass': '700',
'fall': 'Fell',
'year': '1835-01-01T00:00:00.000',
'reclat': '51.783330',
'reclong': '-1.783330',
'geolocation': {'latitude': '51.78333', 'longitude': '-1.78333'}},
{'name': 'Aleppo',
'id': '462',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '3200',
'fall': 'Fell',
'year': '1873-01-01T00:00:00.000',
'reclat': '36.233330',
'reclong': '37.133330',
'geolocation': {'latitude': '36.23333', 'longitude': '37.13333'}},
{'name': 'Alessandria',
'id': '463',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '908',
'fall': 'Fell',
'year': '1860-01-01T00:00:00.000',
'reclat': '44.883330',
'reclong': '8.750000',
'geolocation': {'latitude': '44.88333', 'longitude': '8.75'}},
{'name': 'Alexandrovsky',
'id': '465',
'nametype': 'Valid',
'recclass': 'H4',
'mass': '9251',
'fall': 'Fell',
'year': '1900-01-01T00:00:00.000',
'reclat': '50.950000',
'reclong': '31.816670',
'geolocation': {'latitude': '50.95', 'longitude': '31.81667'}},
{'name': 'Alfianello',
'id': '466',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '228000',
'fall': 'Fell',
'year': '1883-01-01T00:00:00.000',
'reclat': '45.266670',
'reclong': '10.150000',
'geolocation': {'latitude': '45.26667', 'longitude': '10.15'}},
{'name': 'Allegan',

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'id': '2276',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '32000',
'fall': 'Fell',
'year': '1899-01-01T00:00:00.000',
'reclat': '42.533330',
'reclong': '-85.883330',
'geolocation': {'latitude': '42.53333', 'longitude': '-85.88333'},
':@computed_region_cbhk_fwbd': '50',
':@computed_region_nnqa_25f4': '429'},
{'name': 'Allende',
'id': '2278',
'nametype': 'Valid',
'recclass': 'CV3',
'mass': '2000000',
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'year': '1969-01-01T00:00:00.000',
'reclat': '26.966670',
'reclong': '-105.316670',
'geolocation': {'latitude': '26.96667', 'longitude': '-105.31667'}},
{'name': 'Almahata Sitta',
'id': '48915',
'nametype': 'Valid',
'recclass': 'Ureilite-an',
'mass': '3950',
'fall': 'Fell',
'year': '2008-01-01T00:00:00.000',
'reclat': '20.745750',
'reclong': '32.412750',
'geolocation': {'latitude': '20.74575', 'longitude': '32.41275'}},
{'name': "Alta'ameem",
'id': '2284',
'nametype': 'Valid',
'recclass': 'LL5',
'mass': '6000',
'fall': 'Fell',
'year': '1977-01-01T00:00:00.000',
'reclat': '35.273330',
'reclong': '44.215560',
'geolocation': {'latitude': '35.27333', 'longitude': '44.21556'}},
{'name': 'Ambapur Nagla',
'id': '2290',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '6400',
'fall': 'Fell',
'year': '1895-01-01T00:00:00.000',
'reclat': '27.666670',
'reclong': '78.250000',
'geolocation': {'latitude': '27.66667', 'longitude': '78.25'}},
{'name': 'Andhara',
'id': '2294',
'nametype': 'Valid',
'recclass': 'Stone-uncl',
'mass': '2700',

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'fall': 'Fell',
'year': '1880-01-01T00:00:00.000',
'reclat': '26.583330',
'reclong': '85.566670',
'geolocation': {'latitude': '26.58333', 'longitude': '85.56667'}},
{'name': 'Andover',
'id': '2295',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '3200',
'fall': 'Fell',
'year': '1898-01-01T00:00:00.000',
'reclat': '44.616670',
'reclong': '-70.750000',
'geolocation': {'latitude': '44.61667', 'longitude': '-70.75'},
':@computed_region_cbhk_fwbd': '49',
':@computed_region_nnqa_25f4': '1723'},
{'name': 'Andreevka',
'id': '2296',
'nametype': 'Valid',
'recclass': 'L3',
'mass': '600',
'fall': 'Fell',
'year': '1969-01-01T00:00:00.000',
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'reclong': '37.500000',
'geolocation': {'latitude': '48.7', 'longitude': '37.5'}},
{'name': 'Andura',
'id': '2298',
'nametype': 'Valid',
'recclass': 'H6',
'mass': '17900',
'fall': 'Fell',
'year': '1939-01-01T00:00:00.000',
'reclat': '20.883330',
'reclong': '76.866670',
'geolocation': {'latitude': '20.88333', 'longitude': '76.86667'}},
{'name': 'Northwest Africa 5815',
'id': '50693',
'nametype': 'Valid',
'recclass': 'L5',
'mass': '256.8',
'fall': 'Found',
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'geolocation': {'latitude': '0.0', 'longitude': '0.0'}},
{'name': 'Angers',
'id': '2301',
'nametype': 'Valid',
'recclass': 'L6',
'fall': 'Fell',
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'reclong': '-0.550000',
'geolocation': {'latitude': '47.46667', 'longitude': '-0.55'}},
{'name': 'Angra dos Reis (stone)',

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'id': '2302',
'nametype': 'Valid',
'recclass': 'Angrite',
'mass': '1500',
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'mass': '6500',
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'year': '1942-01-01T00:00:00.000',
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'year': '1971-01-01T00:00:00.000',
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'reclong': '105.183330',
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'year': '1914-01-01T00:00:00.000',
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'reclong': '-2.716670',
'geolocation': {'latitude': '53.58333', 'longitude': '-2.71667'}},
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'year': '1803-01-01T00:00:00.000',

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'reclat': '43.866670',
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{'name': 'Arbol Solo',
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'year': '1954-01-01T00:00:00.000',
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'reclong': '-66.000000',
'geolocation': {'latitude': '-33.0', 'longitude': '-66.0'}},
{'name': 'Archie',
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'nametype': 'Valid',
'recclass': 'H6',
'mass': '5070',
'fall': 'Fell',
'year': '1932-01-01T00:00:00.000',
'reclat': '38.500000',
'reclong': '-94.300000',
'geolocation': {'latitude': '38.5', 'longitude': '-94.3'},
':@computed_region_cbhk_fwbd': '18',
':@computed_region_nnqa_25f4': '2697'},
{'name': 'Arroyo Aguiar',
'id': '2340',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '7450',
'fall': 'Fell',
'year': '1950-01-01T00:00:00.000',
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'geolocation': {'latitude': '-31.41667', 'longitude': '-60.66667'}},
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'nametype': 'Valid',
'recclass': 'H6',
'mass': '41',
'fall': 'Fell',
'year': '1805-01-01T00:00:00.000',
'reclat': '42.450000',
'reclong': '9.033330',
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'nametype': 'Valid',
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'mass': '9500',
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'year': '2009-01-01T00:00:00.000',
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'reclong': '-97.010000',
'geolocation': {'latitude': '31.805', 'longitude': '-97.01'},
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':@computed_region_nnqa_25f4': '774'},
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'fall': 'Fell',
'year': '1923-01-01T00:00:00.000',
'reclat': '52.050000',
'reclong': '0.300000',
'geolocation': {'latitude': '52.05', 'longitude': '0.3'}},
{'name': 'Assisi',
'id': '2353',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '2000',
'fall': 'Fell',
'year': '1886-01-01T00:00:00.000',
'reclat': '43.033330',
'reclong': '12.550000',
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{'name': 'Atarra',
'id': '4883',
'nametype': 'Valid',
'recclass': 'L4',
'mass': '1280',
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'year': '1920-01-01T00:00:00.000',
'reclat': '25.254170',
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{'name': 'Atemajac',
'id': '4884',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '94.2',
'fall': 'Fell',
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{'name': 'Athens',
'id': '4885',
'nametype': 'Valid',
'recclass': 'LL6',
'mass': '265',
'fall': 'Fell',
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'id': '23099',
'nametype': 'Valid',
'recclass': 'H4',
'mass': '4960',
'fall': 'Fell',
'year': '1962-01-01T00:00:00.000',
'reclat': '50.766670',
'reclong': '3.000000',
'geolocation': {'latitude': '50.76667', 'longitude': '3.0'}},
{'name': 'Sterlitamak',
'id': '23724',
'nametype': 'Valid',
'recclass': 'Iron, IIIAB',
'mass': '325000',
'fall': 'Fell',
'year': '1990-01-01T00:00:00.000',
'reclat': '53.666670',
'reclong': '55.983330',
'geolocation': {'latitude': '53.66667', 'longitude': '55.98333'}},
{'name': 'Stolzenau',
'id': '23726',
'nametype': 'Valid',
'recclass': 'Stone-uncl',
'fall': 'Fell',
'year': '1647-01-01T00:00:00.000',
'reclat': '52.533330',
'reclong': '9.050000',
'geolocation': {'latitude': '52.53333', 'longitude': '9.05'}},
{'name': 'Stratford',
'id': '23728',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '50',
'fall': 'Fell',
'year': '1974-01-01T00:00:00.000',
'reclat': '41.200000',
'reclong': '-73.133330',
'geolocation': {'latitude': '41.2', 'longitude': '-73.13333'},
':@computed_region_cbhk_fwbd': '24',
':@computed_region_nnqa_25f4': '1040'},
{'name': 'Strathmore',
'id': '23729',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '13400',
'fall': 'Fell',
'year': '1917-01-01T00:00:00.000',
'reclat': '56.583330',
'reclong': '-3.250000',
'geolocation': {'latitude': '56.58333', 'longitude': '-3.25'}},
{'name': 'Stretchleigh',
'id': '23732',
'nametype': 'Valid',

```

```

'recclass': 'Stone-uncl',
'mass': '10400',
'fall': 'Fell',
'year': '1623-01-01T00:00:00.000',
'reclat': '50.383330',
'reclong': '-3.950000',
'geolocation': {'latitude': '50.38333', 'longitude': '-3.95'}},
{'name': 'St-Robert',
'id': '23733',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '25400',
'fall': 'Fell',
'year': '1994-01-01T00:00:00.000',
'reclat': '45.968610',
'reclong': '-72.978060',
'geolocation': {'latitude': '45.96861', 'longitude': '-72.97806'}},
{'name': 'Success',
'id': '23736',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '3500',
'fall': 'Fell',
'year': '1924-01-01T00:00:00.000',
'reclat': '36.483330',
'reclong': '-90.666670',
'geolocation': {'latitude': '36.48333', 'longitude': '-90.66667'},
':@computed_region_cbhk_fwbd': '15',
':@computed_region_nnqa_25f4': '955'},
{'name': 'Suchy Dul',
'id': '23737',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '815.3',
'fall': 'Fell',
'year': '1969-01-01T00:00:00.000',
'reclat': '50.538060',
'reclong': '16.263330',
'geolocation': {'latitude': '50.53806', 'longitude': '16.26333'}},
{'name': 'Suizhou',
'id': '23738',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '260000',
'fall': 'Fell',
'year': '1986-01-01T00:00:00.000',
'reclat': '31.616670',
'reclong': '113.466670',
'geolocation': {'latitude': '31.61667', 'longitude': '113.46667'}},
{'name': 'Sulagiri',
'id': '48951',
'nametype': 'Valid',
'recclass': 'LL6',
'mass': '110000',
'fall': 'Fell',
'year': '2008-01-01T00:00:00.000',

```

```
'reclat': '12.666670',
'reclong': '78.033330',
'geolocation': {'latitude': '12.66667', 'longitude': '78.03333'}},
{'name': 'Sultanpur',
'id': '23741',
'nametype': 'Valid',
'recclass': 'L/LL6',
'mass': '1710.5',
'fall': 'Fell',
'year': '1916-01-01T00:00:00.000',
'reclat': '25.933330',
'reclong': '84.283330',
'geolocation': {'latitude': '25.93333', 'longitude': '84.28333'}},
{'name': 'Sungach',
'id': '23745',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '637',
'fall': 'Fell',
'year': '1935-01-01T00:00:00.000',
'reclat': '44.866670',
'reclong': '133.166670',
'geolocation': {'latitude': '44.86667', 'longitude': '133.16667'}},
{'name': 'Supuhee',
'id': '23760',
'nametype': 'Valid',
'recclass': 'H6',
'mass': '7235',
'fall': 'Fell',
'year': '1865-01-01T00:00:00.000',
'reclat': '26.716670',
'reclong': '84.216670',
'geolocation': {'latitude': '26.71667', 'longitude': '84.21667'}},
{'name': "Sutter's Mill",
'id': '55529',
'nametype': 'Valid',
'recclass': 'C',
'mass': '992.5',
'fall': 'Fell',
'year': '2012-01-01T00:00:00.000',
'reclat': '38.803890',
'reclong': '-120.908060',
'geolocation': {'latitude': '38.80389', 'longitude': '-120.90806'},
':@computed_region_cbhk_fwbd': '8',
':@computed_region_nnqa_25f4': '1187'},
{'name': 'Sylacauga',
'id': '23773',
'nametype': 'Valid',
'recclass': 'H4',
'mass': '5560',
'fall': 'Fell',
'year': '1954-01-01T00:00:00.000',
'reclat': '33.188360',
'reclong': '-86.294500',
'geolocation': {'latitude': '33.18836', 'longitude': '-86.2945'},
':@computed_region_cbhk_fwbd': '29',
```

```

    '@computed_region_nnqa_25f4': '1637'},
  {
    'name': 'Tabor',
    'id': '23776',
    'nametype': 'Valid',
    'recclass': 'H5',
    'mass': '7540',
    'fall': 'Fell',
    'year': '1753-01-01T00:00:00.000',
    'reclat': '49.400000',
    'reclong': '14.650000',
    'geolocation': {'latitude': '49.4', 'longitude': '14.65'}},
  {
    'name': 'Tadjera',
    'id': '23778',
    'nametype': 'Valid',
    'recclass': 'L5',
    'mass': '9000',
    'fall': 'Fell',
    'year': '1867-01-01T00:00:00.000',
    'reclat': '36.183330',
    'reclong': '5.416670',
    'geolocation': {'latitude': '36.18333', 'longitude': '5.41667'}},
  {
    'name': 'Tagish Lake',
    'id': '23782',
    'nametype': 'Valid',
    'recclass': 'C2-ung',
    'mass': '10000',
    'fall': 'Fell',
    'year': '2000-01-01T00:00:00.000',
    'reclat': '59.704440',
    'reclong': '-134.201390',
    'geolocation': {'latitude': '59.70444', 'longitude': '-134.20139'}},
  {
    'name': 'Tahara',
    'id': '23784',
    'nametype': 'Valid',
    'recclass': 'H4/5',
    'mass': '1000',
    'fall': 'Fell',
    'year': '1991-01-01T00:00:00.000',
    'reclat': '34.720000',
    'reclong': '137.305000',
    'geolocation': {'latitude': '34.72', 'longitude': '137.305'}},
  {
    'name': 'Takenouchi',
    'id': '23789',
    'nametype': 'Valid',
    'recclass': 'H5',
    'mass': '720',
    'fall': 'Fell',
    'year': '1880-01-01T00:00:00.000',
    'reclat': '35.383330',
    'reclong': '134.900000',
    'geolocation': {'latitude': '35.38333', 'longitude': '134.9'}},
  {
    'name': 'Talampaya',
    'id': '23791',
    'nametype': 'Valid',
    'recclass': 'Eucrite-cm',
    'mass': '1421',

```

```

    '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'}},
{'name': 'Tamdakht',
 'id': '48691',
 'nametype': 'Valid',
 'recclass': 'H5',
 'mass': '100000',
 'fall': 'Fell',
 'year': '2008-01-01T00:00:00.000',
 'reclat': '31.163330',
 'reclong': '-7.015000',
 'geolocation': {'latitude': '31.16333', 'longitude': '-7.015'}},
{'name': 'Tané',
 'id': '23801',
 'nametype': 'Valid',
 'recclass': 'L5',
 'mass': '905',
 'fall': 'Fell',
 'year': '1918-01-01T00:00:00.000',
 'reclat': '35.433330',
 'reclong': '136.233330',
 'geolocation': {'latitude': '35.43333', 'longitude': '136.23333'}},
{'name': 'Taonan',
 'id': '23873',
 'nametype': 'Valid',
 'recclass': 'L5',
 'mass': '3850',
 'fall': 'Fell',
 'year': '1965-01-01T00:00:00.000',
 'reclat': '45.400000',
 'reclong': '122.900000',
 'geolocation': {'latitude': '45.4', 'longitude': '122.9'}},
{'name': 'Tatahouine',
 'id': '23884',
 'nametype': 'Valid',
 'recclass': 'Diogenite',
 'mass': '12000',
 'fall': 'Fell',
 'year': '1931-01-01T00:00:00.000',
 'reclat': '32.950000',
 'reclong': '10.416670',
 'geolocation': {'latitude': '32.95', 'longitude': '10.41667'}},
{'name': 'Tathlith',
 'id': '23885',
 'nametype': 'Valid',
 'recclass': 'L6',

```

```

    'mass': '2500',
    'fall': 'Fell',
    'year': '1967-01-01T00:00:00.000',
    'reclat': '19.383330',
    'reclong': '43.733330',
    'geolocation': {'latitude': '19.38333', 'longitude': '43.73333'}},
{'name': 'Tauk',
 'id': '23887',
 'nametype': 'Valid',
 'recclass': 'L6',
 'mass': '6000',
 'fall': 'Fell',
 'year': '1929-01-01T00:00:00.000',
 'reclat': '35.133330',
 'reclong': '44.450000',
 'geolocation': {'latitude': '35.13333', 'longitude': '44.45'}},
{'name': 'Tauti',
 'id': '23888',
 'nametype': 'Valid',
 'recclass': 'L6',
 'mass': '21000',
 'fall': 'Fell',
 'year': '1937-01-01T00:00:00.000',
 'reclat': '46.716670',
 'reclong': '23.500000',
 'geolocation': {'latitude': '46.71667', 'longitude': '23.5'}},
{'name': 'Tenham',
 'id': '23897',
 'nametype': 'Valid',
 'recclass': 'L6',
 'mass': '160000',
 'fall': 'Fell',
 'year': '1879-01-01T00:00:00.000',
 'reclat': '-25.733330',
 'reclong': '142.950000',
 'geolocation': {'latitude': '-25.73333', 'longitude': '142.95'}},
{'name': 'Tennasilm',
 'id': '23898',
 'nametype': 'Valid',
 'recclass': 'L4',
 'mass': '28500',
 'fall': 'Fell',
 'year': '1872-01-01T00:00:00.000',
 'reclat': '58.033330',
 'reclong': '26.950000',
 'geolocation': {'latitude': '58.03333', 'longitude': '26.95'}},
{'name': 'Thal',
 'id': '23908',
 'nametype': 'Valid',
 'recclass': 'H6',
 'mass': '342',
 'fall': 'Fell',
 'year': '1950-01-01T00:00:00.000',
 'reclat': '33.400000',
 'reclong': '70.600000',
 'geolocation': {'latitude': '33.4', 'longitude': '70.6'}},

```

```
{'name': 'Thika',
'id': '54493',
'nametype': 'Valid',
'recclass': 'L6',
'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',
'reclong': '27.583330',
'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',
'reclat': '32.946670',
'reclong': '118.990000',
'geolocation': {'latitude': '32.94667', 'longitude': '118.99'}},
{'name': 'Tieschitz',
'id': '23989',
'nametype': 'Valid',
'recclass': 'H/L3.6',
'mass': '28000',
'fall': 'Fell',
'year': '1878-01-01T00:00:00.000',
'reclat': '49.600000',
'reclong': '17.116670',
'geolocation': {'latitude': '49.6', 'longitude': '17.11667'}},
{'name': 'Tilden',
'id': '23998',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '74800',
'fall': 'Fell',
'year': '1927-01-01T00:00:00.000',
'reclat': '38.200000',
'reclong': '-89.683330',
'geolocation': {'latitude': '38.2', 'longitude': '-89.68333'},
':@computed_region_cbhk_fwbd': '34',
':@computed_region_nnqa_25f4': '1762'},
{'name': 'Tillaberi',
'id': '23999',
'nametype': 'Valid',
'recclass': 'L6',
```

```

'mass': '3000',
'fall': 'Fell',
'year': '1970-01-01T00:00:00.000',
'reclat': '14.250000',
'reclong': '1.533330',
'geolocation': {'latitude': '14.25', 'longitude': '1.53333'}},
{'name': 'Timochin',
'id': '24004',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '65500',
'fall': 'Fell',
'year': '1807-01-01T00:00:00.000',
'reclat': '54.500000',
'reclong': '35.200000',
'geolocation': {'latitude': '54.5', 'longitude': '35.2'}},
{'name': 'Tirupati',
'id': '24009',
'nametype': 'Valid',
'recclass': 'H6',
'mass': '230',
'fall': 'Fell',
'year': '1934-01-01T00:00:00.000',
'reclat': '13.633330',
'reclong': '79.416670',
'geolocation': {'latitude': '13.63333', 'longitude': '79.41667'}},
{'name': 'Tissint',
'id': '54823',
'nametype': 'Valid',
'recclass': 'Martian (shergottite)',
'mass': '7000',
'fall': 'Fell',
'year': '2011-01-01T00:00:00.000',
'reclat': '29.481950',
'reclong': '-7.611230',
'geolocation': {'latitude': '29.48195', 'longitude': '-7.61123'}},
{'name': 'Tjabe',
'id': '24011',
'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',
'id': '24012',
'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',
  'recclass': 'LL6',
  '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
0	Aachen	1	Valid	L5	21	Fell	1880-01-01T00:00:00.000	50.775000	6.083330	
1	Aarhus	2	Valid	H6	720	Fell	1951-01-01T00:00:00.000	56.183330	10.233330	
2	Abee	6	Valid	EH4	107000	Fell	1952-01-01T00:00:00.000	54.216670	-113.000000	

```
In [23]: import pandas as pd # importing pandas
meteorites = pd.read_csv('Meteorite_Landings.csv') # assign dataframe to name/content
```

```
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
recclass      object
mass (g)      float64
fall          object
year          object
reclat        float64
reclong       float64
GeoLocation   object
dtype: object
```

```
In [31]: meteorites.head(10) # shows the first nth number of data (uses 10 in this 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	H6	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)
```

Out[30]:

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	29.03700	17.108333
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	13.78333	8.833333
45713	Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	49.25000	17.166667
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	49.78917	41.833333
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333	-115.833333

```
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
dtypes: float64(3), int64(1), object(6)
memory usage: 3.5+ MB
```

```
In [35]: meteorites['name','year'] # error due to not using list in accesing 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:
    4101     return self._getitem_multilevel(key)
-> 4102 indexer = self.columns.get_loc(key)
    4103 if is_integer(indexer):
    4104     indexer = [indexer]

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)
    3809     and any(isinstance(x, slice) for x in casted_key)
    3810 ):
    3811     raise InvalidIndexError(key)
-> 3812     raise KeyError(key) from err
    3813 except TypeError:
    3814     # If we have a listlike key, _check_indexing_error will raise
    3815     # InvalidIndexError. Otherwise we fall through and re-raise
    3816     # the TypeError.
    3817     self._check_indexing_error(key)

KeyError: ('name', 'year')

```

```
In [36]: meteorites[['name', 'year']] # use a list when selecting multiple columns
```

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`

Out[37]:

	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

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

Out[38]:

	name	recclass	mass (g)	year
100	Benton	LL6	2840.0	01/01/1949 12:00:00 AM
101	Berduc	L6	270.0	01/01/2008 12:00:00 AM
102	Béréba	Eucrite-mmict	18000.0	01/01/1924 12:00:00 AM
103	Berlanguillas	L6	1440.0	01/01/1811 12:00:00 AM

In [39]: `meteorites.iloc[[0,3,4,6]]`

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	



In [40]: `meteorites.loc[100:104, 'mass (g)': 'year']` # can use positional and names

Out[40]:

	mass (g)	fall	year
100	2840.0	Fell	01/01/1949 12:00:00 AM
101	270.0	Fell	01/01/2008 12:00:00 AM
102	18000.0	Fell	01/01/1924 12:00:00 AM
103	1440.0	Fell	01/01/1811 12:00:00 AM
104	960.0	Fell	01/01/2004 12:00:00 AM

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 [LocationIndexer.__getitem__](#)(self, key)

```
    1182     if self._is_scalar_access(key):
    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 [iLocIndexer._getitem_tuple](#)(self, tup)

```
    1691 with suppress(IndexingError):
    1692     return self._getitem_lowerdim(tup)
-> 1694 return self._getitem_tuple_same_dim(tup)
```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexing.py:1020, in [LocationIndexer._getitem_tuple_same_dim](#)(self, tup)

```
    1017 if com.is_null_slice(key):
    1018     continue
-> 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 [iLocIndexer._getitem_axis](#)(self, key, axis)

```
    1723     raise IndexError(
    1724         "DataFrame indexer is not allowed for .iloc\n"
    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 [iLocIndexer._get_slice_axis](#)(self, slice_obj, axis)

```
    1761     return obj.copy(deep=False)
    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")
4199     self._validate_indexer("positional", key.step, "iloc")
```

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.
6695 """
6696 if not lib.is_int_or_none(key):
-> 6697     self._raise_invalid_indexer(form, key)
```

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 use 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
```


Out[48]:

	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	H5	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



In [49]:

```
meteorites.query("`mass (g)` > 1e6 and fall == 'Fell'")
```

```
Out[49]:
```

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclon
29	Allende	2278	Valid	CV3	2000000.0	Fell	01/01/1969 12:00:00 AM	26.96667	-105.3166
419	Jilin	12171	Valid	H5	4000000.0	Fell	01/01/1976 12:00:00 AM	44.05000	126.1666
506	Kunya-Urgench	12379	Valid	H5	1100000.0	Fell	01/01/1998 12:00:00 AM	42.25000	59.2000
707	Norton County	17922	Valid	Aubrite	1100000.0	Fell	01/01/1948 12:00:00 AM	39.68333	-99.8666
920	Sikhote-Alin	23593	Valid	Iron, IIAB	23000000.0	Fell	01/01/1947 12:00:00 AM	46.16000	134.6533

```
In [50]: meteorites.fall.value_counts() # counts the values in the used column using DOT operator
```

```
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 used
meteorites.value_counts(subset = ['nametype', 'fall'], normalize = False)
```

```
Out[53]: nametype fall
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 to float
```

```
Out[56]: numpy.float64
```

```
In [57]: type(meteorites['mass (g)'].mean()) # checks type
```

```
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
```

```
In [61]: meteorites['mass (g)'].max() # shows the maximum value
```

```
Out[61]: 60000000.0
```

```
In [63]: meteorites.loc[meteorites['mass (g)'].idxmax()] # shows the index of the maximum va
```

```
Out[63]: name                Hoba
         id                  11890
         nametype            Valid
         recclass            Iron, IVB
         mass (g)            60000000.0
         fall                Found
         year                01/01/1920 12:00:00 AM
         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 unqie 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-unc1', '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', 'CO3.6',
'Martian (nakhlite)', 'LL3.6', 'C3-ung', 'H3-4', 'CO3.4', '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', 'CO3', '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', 'EH',
'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
mean	26889.735104	1.327808e+04	-39.122580	61.074319
std	16860.683030	5.749889e+05	46.378511	80.647298
min	1.000000	0.000000e+00	-87.366670	-165.433330
25%	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	81.166670	354.473330

```
In [ ]:
```

```
In [ ]:
```

EXERCISE PART 1

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



```
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', 'tolls_amount', 'total_amount']].describe()
# using list accessing to output the descriptive statistic for specific columns
```

```
Out[78]:
```

	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 value to find the row with the max value for the distance. Then the column list after 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 were 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 accessing 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.

```
In [ ]:
```

```
In [ ]: # DATA WRANGLING
```

```
In [16]: import pandas as pd

taxi = pd.read_csv('2019_Yellow_Taxi_Trip_Data.csv')
```


```
In [17]: mask = taxi.columns.str.contains('id$|store_and_fwd_flag', regex= True) # regex e
columns_to_drop = taxi.columns[mask] # store the columns
columns_to_drop
```

```
Out[17]: Index(['vendorid', 'ratecodeid', 'pulocationid', 'dolocationid'], dtype='object')
```

```
In [18]: taxi = taxi.drop(columns = columns_to_drop) # store the modificaiton of the dataf
taxi.head() # output
```

```
Out[18]:
```

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



```
In [20]: # modifying columns

taxi = taxi.rename(
    columns ={
        'tpep_pickup_datetime': 'pickup', # pass dict of column names to change
        'tpep_dropoff_datetime': 'dropoff' # format is OLD : NEW
    }
)
```

```
In [21]: taxi.dtypes
```

```
Out[21]: pickup                object
dropoff                object
passenger_count         int64
trip_distance            float64
store_and_fwd_flag       object
payment_type            int64
fare_amount             float64
extra                   float64
mta_tax                 float64
tip_amount              float64
tolls_amount            float64
improvement_surcharge   float64
total_amount            float64
congestion_surcharge    float64
dtype: object
```



```
In [29]: taxis[['pickup', 'dropoff']] = # saving the modificaiton
        taxis[['pickup', 'dropoff']].apply(pd.to_datetime) # getting the datetime datat
        taxis.dtypes # checking of data types
```

Cell In[29], line 1

```
taxis[['pickup', 'dropoff']] = # saving the modificaiton
        ^
```

SyntaxError: invalid syntax

```
In [27]: # creating new columns
        taxis['elapsed_time'] = taxis['dropoff'] - taxis['pickup']
        # to create new columns save the modification
        # equate from the values got from the needed columns
```

```
In [28]: taxis['elapsed_time']
```

```
Out[28]: 0      0 days 00:34:28
        1      0 days 00:13:18
        2      0 days 00:12:27
        3      0 days 00:20:42
        4      0 days 00:13:38
        ...
        9995  0 days 00:09:27
        9996  0 days 00:07:43
        9997  0 days 00:04:19
        9998  0 days 00:11:02
        9999  0 days 00:29:55
        Name: elapsed_time, Length: 10000, dtype: timedelta64[ns]
```

```
In [30]: taxis.dtypes
```

```
Out[30]: pickup      datetime64[ns]
        dropoff      datetime64[ns]
        passenger_count  int64
        trip_distance  float64
        store_and_fwd_flag  object
        payment_type  int64
        fare_amount  float64
        extra  float64
        mta_tax  float64
        tip_amount  float64
        tolls_amount  float64
        improvement_surcharge  float64
        total_amount  float64
        congestion_surcharge  float64
        elapsed_time  timedelta64[ns]
        dtype: object
```

```
In [55]: taxis = taxis.assign(
        elapsed_time = lambda x: x.dropoff - x.pickup,
        cost_before_tip = lambda x: x.total_amount - x.tip_amount,
        tip_pct = lambda x: x.tip_amount / x.cost_before_tip,
        fees = lambda x: x.cost_before_tip - x.fare_amount,
        avg_speed = lambda x: x.trip_distance.div(
            x.elapsed_time.dt.total_seconds() / 60/60
```

```
)
)
# using lambda functions to add columns
# format lambda variable : values to assign in the columns/variable
```

```
In [37]: taxi.sort_values(['fare_amount'], ascending = False).head() # sorting values
# choose a column the dictate whether ascending or descending order
```

Out[37]:

	pickup	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type
8338	2019-10-23 16:50:53	2019-10-24 15:32:55	1	38.11	N	1
853	2019-10-23 16:07:39	2019-10-23 17:37:05	3	19.09	N	2
4714	2019-10-23 16:33:17	2019-10-23 17:56:49	2	26.30	N	1
9758	2019-10-23 17:20:50	2019-10-23 18:58:16	1	19.50	N	1
3354	2019-10-23 16:23:19	2019-10-23 17:10:00	1	10.01	N	1

```
In [36]: taxi.sort_values(['fare_amount', 'trip_distance'], ascending = [True, False]).head
```


Out[36]:

	pickup	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type
7586	2019-10-23 16:52:06	2019-10-23 17:29:50	1	10.86	N	2
822	2019-10-23 16:52:52	2019-10-23 16:52:54	3	0.02	N	3
8804	2019-10-23 16:50:16	2019-10-23 17:06:08	2	0.53	N	4
6585	2019-10-23 16:20:03	2019-10-23 16:34:47	1	0.87	N	3
2103	2019-10-23 16:41:17	2019-10-23 16:56:35	1	0.85	N	3

```
In [39]: taxi.nlargest(3, 'elapsed_time') # to find the nth of largest items from chosen co
```

Out[39]:


	pickup	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type
7576	2019-10-23 16:52:51	2019-10-24 16:51:44	1	3.75	N	1
6902	2019-10-23 16:51:42	2019-10-24 16:50:22	1	11.19	N	2
4975	2019-10-23 16:18:51	2019-10-24 16:17:30	1	0.70	N	2



```
In [40]: taxi.nlargest(5, 'trip_distance') # shows 5 highest trip distance
```

Out[40]:

	pickup	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type
8338	2019-10-23 16:50:53	2019-10-24 15:32:55	1	38.11	N	1
9965	2019-10-23 17:34:29	2019-10-23 18:48:00	1	37.86	N	2
1656	2019-10-23 16:04:45	2019-10-23 19:11:40	3	37.57	N	1
2237	2019-10-23 16:09:02	2019-10-23 17:40:37	1	28.41	N	1
436	2019-10-23 16:43:22	2019-10-23 17:56:45	4	28.06	N	1



```
In [41]: taxi.nsmallest(5, 'trip_distance') # shows the nth smallest values in the column
```

Out[41]:

	pickup	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type
24	2019-10-23 16:37:56	2019-10-23 16:37:59	1	0.0	N	3
517	2019-10-23 16:00:09	2019-10-23 16:00:20	3	0.0	N	2
518	2019-10-23 16:00:09	2019-10-23 16:00:20	3	0.0	N	2
536	2019-10-23 16:12:57	2019-10-23 16:13:07	3	0.0	N	2
729	2019-10-23 16:52:27	2019-10-23 16:52:27	1	0.0	N	2



In []:

EXERCISE PART 2

In [44]:

```
# reading/loading the meteorite_Landing file

import pandas as pd

df = pd.read_csv('Meteorite_Landings.csv')
df.head()
```

Out[44]:

	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	H6	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

In [45]:

```
# renaming the mass (g) column to mass

df = df.rename(columns ={'mass (g)': 'mass'}) # renaming using the rename method
df.head() # checking if modified
```

Out[45]:

	name	id	nametype	recclass	mass	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	H6	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

In [54]:

```
# drop all the Latitude and Longitude
store = df.columns.str.contains('lat|long', regex= True) # regex expression
columns_to_drop = df.columns[store] # store the columns
columns_to_drop
```

```
df = df.drop(columns = columns_to_drop) # store the modification of the dataframe
df.head() # output
```

Out[54]:

	name	id	nametype	recclass	mass	fall	year	GeoLocation
0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	(50.775, 6.08333)
1	Aarhus	2	Valid	H6	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, -113.0)
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	(16.88333, -99.9)
4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	(-33.16667, -64.95)

In [46]: # sort the result by mass in descending order

```
df.sort_values(['mass'], ascending = True) # use the sort value method, set ascending = False
df.head() # checking the result
```

Out[46]:

	name	id	nametype	recclass	mass	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	H6	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



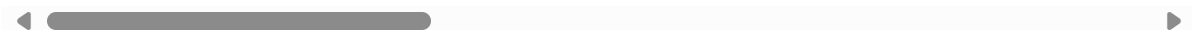
In []:

In [56]:

```
taxis = taxis.set_index('pickup') # setting the pickup column as the index
taxis.head(3)
```

Out[56]:

	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
pickup						
2019-10-23 16:39:42	2019-10-23 17:14:10	1	7.93	N	1	
2019-10-23 16:32:08	2019-10-23 16:45:26	1	2.00	N	1	
2019-10-23 16:08:44	2019-10-23 16:21:11	1	1.36	N	1	




In [57]: `taxis = taxis.sort_index() # sorting the index then saving`

In [58]: `taxis.head(3) # checking`

Out[58]:

	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
pickup						
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	N	1	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	N	2	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	N	1	

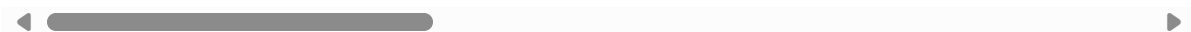


In [63]: `taxis.sort_index(axis = 1) # sorting but targets the columns`

Out[63]:

	avg_speed	congestion_surcharge	cost_before_tip	dropoff	elapsed_time	extra
pickup						
2019-10-23 07:05:34	15.265165	0.0	51.8	2019-10-23 08:03:16	0 days 00:57:42	1.0
2019-10-23 07:48:58	12.628272	2.5	8.8	2019-10-23 07:52:09	0 days 00:03:11	1.0
2019-10-23 08:02:09	0.353989	2.5	36.3	2019-10-24 07:42:32	0 days 23:40:23	1.0
2019-10-23 08:18:47	8.289017	2.5	16.8	2019-10-23 08:36:05	0 days 00:17:18	1.0
2019-10-23 09:27:16	11.193277	0.0	7.8	2019-10-23 09:33:13	0 days 00:05:57	1.0
...
2019-10-24 07:23:52	0.000000	0.0	37.0	2019-10-24 08:08:52	0 days 00:45:00	0.0
2019-10-24 07:29:52	9.169811	0.0	4.8	2019-10-24 07:33:24	0 days 00:03:32	0.0
2019-10-24 07:58:31	0.000000	0.0	23.0	2019-10-24 08:47:05	0 days 00:48:34	0.0
2019-10-24 08:07:45	0.000000	2.5	55.3	2019-10-24 08:07:50	0 days 00:00:05	0.0
2019-10-24 08:19:11	19.130435	0.0	42.8	2019-10-24 09:00:35	0 days 00:41:24	0.0

10000 rows × 18 columns



In [64]: `taxis.sort_index(axis = 0) # sorting but targets the rows`

Out[64]:

	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
pickup						
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	N	1	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	N	2	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	N	1	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	N	2	
2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	N	2	
...
2019-10-24 07:23:52	2019-10-24 08:08:52	1	0.00	Y	1	
2019-10-24 07:29:52	2019-10-24 07:33:24	1	0.54	N	2	
2019-10-24 07:58:31	2019-10-24 08:47:05	1	0.00	N	1	
2019-10-24 08:07:45	2019-10-24 08:07:50	2	0.00	N	2	
2019-10-24 08:19:11	2019-10-24 09:00:35	0	13.20	N	2	

10000 rows × 18 columns



```
In [65]: taxi['2019-10-23 7:45':'2019-10-23 08'] # uses the data values as index
# observe: the values works like ranges
```

Out[65]:

		dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
pickup							
2019-10-23 07:48:58	2019-10-23 07:52:09		1	0.67	N		2
2019-10-23 08:02:09	2019-10-24 07:42:32		1	8.38	N		1
2019-10-23 08:18:47	2019-10-23 08:36:05		1	2.39	N		2

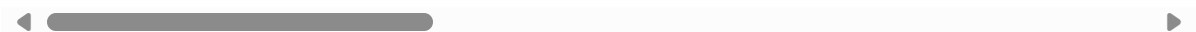
In [68]:

```
taxis['2019-10-23':] # splicing the data range which starts with the placed value t
```

Out[68]:

	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
pickup						
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	N	1	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	N	2	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	N	1	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	N	2	
2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	N	2	
...
2019-10-24 07:23:52	2019-10-24 08:08:52	1	0.00	Y	1	
2019-10-24 07:29:52	2019-10-24 07:33:24	1	0.54	N	2	
2019-10-24 07:58:31	2019-10-24 08:47:05	1	0.00	N	1	
2019-10-24 08:07:45	2019-10-24 08:07:50	2	0.00	N	2	
2019-10-24 08:19:11	2019-10-24 09:00:35	0	13.20	N	2	

10000 rows × 18 columns



In [69]:

```
taxis.loc['2019-10-23 08']
```

Out[69]:

	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
	pickup					
	2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	N	1
	2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	N	2

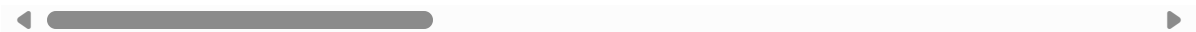
In [70]:

`taxi.loc['2019-10']`

Out[70]:

	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare_
pickup						
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	N	1	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	N	2	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	N	1	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	N	2	
2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	N	2	
...
2019-10-24 07:23:52	2019-10-24 08:08:52	1	0.00	Y	1	
2019-10-24 07:29:52	2019-10-24 07:33:24	1	0.54	N	2	
2019-10-24 07:58:31	2019-10-24 08:47:05	1	0.00	N	1	
2019-10-24 08:07:45	2019-10-24 08:07:50	2	0.00	N	2	
2019-10-24 08:19:11	2019-10-24 09:00:35	0	13.20	N	2	

10000 rows × 18 columns




In [71]:

```
# resetting the index  
  
taxi = taxi.reset_index()  
taxi.head()
```

Out[71]:

	pickup	dropoff	passenger_count	trip_distance	store_and_fwd_flag	payment_type	fare
0	2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	N	1	
1	2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	N	2	
2	2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	N	1	
3	2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	N	2	
4	2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	N	2	



In []:

EXERCISE PART 3

In [111...]

```
#import the dataset

import pandas as pd

meteorite = pd.read_csv('Meteorite_Landings.csv')
meteorite.head()
```

Out[111...

	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	H6	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

In [112...

```
# update the year column to only contain the year and convert to numeric data type
meteorite['year'] = meteorite['year'].str.slice().str[6:10] # using the year.str.sl
meteorite
```

Out[112...

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
0	Aachen	1	Valid	L5	21.0	Fell	1880	50.77500	6.08
1	Aarhus	2	Valid	H6	720.0	Fell	1951	56.18333	10.23
2	Abee	6	Valid	EH4	107000.0	Fell	1952	54.21667	-113.00
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	1976	16.88333	-99.90
4	Achiras	370	Valid	L6	780.0	Fell	1902	-33.16667	-64.95
...
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	1990	29.03700	17.01
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	1999	13.78333	8.96
45713	Zlin	30410	Valid	H4	3.3	Found	1939	49.25000	17.66
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	2003	49.78917	41.50
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	1976	33.98333	-115.66

45716 rows × 10 columns



In [115...

```
# and convert to numeric data type
meteorite['year'] = meteorite['year'].fillna(0) # filling the empty cells
meteorite.year = meteorite.year.astype('int64') # converting the year column into int64

meteorite.dtypes # checking of output
```

Out[115...

```
name          object
id            int64
nametype      object
recclass      object
mass (g)      float64
fall          object
year          int64
reclat        float64
reclong       float64
GeoLocation   object
dtype: object
```

In [119...

```
# create a new column indicating whether the meteorite was observed falling before
meteorite1 = meteorite # creating copy
```



```
# creating a new column with using the AND condition to get the Boolean values need
meteorite1['Fell Before 1970'] = (meteorite1['year'] < 1970) & (meteorite1['fall'] =
meteorite1.head() # checking result
```

Out[119...

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong	GeoL
0	Aachen	1	Valid	L5	21.0	Fell	1880	50.77500	6.08333	6
1	Aarhus	2	Valid	H6	720.0	Fell	1951	56.18333	10.23333	(56.18333, 10.23333)
2	Abee	6	Valid	EH4	107000.0	Fell	1952	54.21667	-113.00000	(54.21667, -113.00000)
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	1976	16.88333	-99.90000	(16.88333, -99.90000)
4	Achiras	370	Valid	L6	780.0	Fell	1902	-33.16667	-64.95000	(-33.16667, -64.95000)

In [129...

```
# set index to the id column and extract all the rows with IDs between 10,036 and 1
meteorite2 = meteorite # create copy
meteorite2 = meteorite.set_index('id') # setting the id as index
meteorite2.head() # checking modification
```

Out[129...

	name	nametype	recclass	mass (g)	fall	year	reclat	reclong	GeoLoca
id									
1	Aachen	Valid	L5	21.0	Fell	1880	50.77500	6.08333	(50.77500, 6.08333)
2	Aarhus	Valid	H6	720.0	Fell	1951	56.18333	10.23333	(56.18333, 10.23333)
6	Abee	Valid	EH4	107000.0	Fell	1952	54.21667	-113.00000	(54.21667, -113.00000)
10	Acapulco	Valid	Acapulcoite	1914.0	Fell	1976	16.88333	-99.90000	(16.88333, -99.90000)
370	Achiras	Valid	L6	780.0	Fell	1902	-33.16667	-64.95000	(-33.16667, -64.95000)


In [131...

```
# set index to the id column and extract all the rows with IDs between 10,036 and 1
meteorite2 = meteorite2.sort_index() # sort first the id index to fix arrangement
```

```
meteorite2.loc[10036:10040] # getting the rows between 10,036 and 10,040
```

Out[131...

	name	nametype	recclass	mass (g)	fall	year	reclat	reclong	Geol
id									
10036	Enigma	Valid	H4	94.0	Found	1967	31.33333	-82.31667	(3-8
10037	Enon	Valid	Iron, ungrouped	763.0	Found	1883	39.86667	-83.95000	(3
10038	Enshi	Valid	H5	8000.0	Fell	1974	30.30000	109.50000	(30.
10039	Ensisheim	Valid	LL6	127000.0	Fell	1491	47.86667	7.35000	(4



In [141...

```
# BONUS

import pandas as pd

meteorite = pd.read_csv('Meteorite_Landings.csv')
meteorite['year'] = meteorite['year'].str.slice().str[6:10]

meteorite = meteorite.set_index('year')
meteorite = meteorite.sort_index()
meteorite
# find the least values by using the year as index
```

Out[141...

	name	id	nametype	recclass	mass (g)	fall	reclat	reclong	GeoLoc
year									
0860	Nogata	16988	Valid	L6	472.0	Fell	33.72500	130.75000	(31.1
0920	Narni	16914	Valid	Stone-uncl	NaN	Fell	42.51667	12.51667	(42.51667
1399	Elbogen	7823	Valid	Iron, IID	107000.0	Fell	50.18333	12.73333	(50.18333
1490	Rivolta de Bassi	22614	Valid	Stone-uncl	103.3	Fell	45.48333	9.51667	(45.48333
1491	Ensisheim	10039	Valid	LL6	127000.0	Fell	47.86667	7.35000	(47.86667
...
NaN	Valencia	24147	Valid	H5	33500.0	Found	39.00000	-0.03333	-0.03333
NaN	Villa Regina	53827	Valid	Iron, IIIAB	5030.0	Found	-39.10000	-67.06667	-67.06667
NaN	Wietrzno-Bohrka	24259	Valid	Iron	376.0	Found	49.41667	21.70000	(49.41667
NaN	Wiltshire	56143	Valid	H5	92750.0	Found	51.14967	-1.81000	(51.14967
NaN	Zaragoza	48916	Valid	Iron, IVA-an	162000.0	Found	41.65000	-0.86667	-0.86667

45716 rows × 9 columns



In []: