


```
In [1]: import pandas as pd
```

```
In [46]: meteorites = pd.read_csv('data/Meteorite_Landings.csv', nrows = 5)
meteorites
```

```
Out[46]:
```

	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 [7]: # Series

meteorites.name
```

```
Out[7]: 0    Aachen
1    Aarhus
2     Abee
3  Acapulco
4   Achiras
Name: name, dtype: object
```

```
In [473... meteorites['name']
```

```
Out[473... id
1          Aachen
2          Aarhus
4          Abajo
5          Abbott
6          Abee
...
57454      Mandalay Spring
57455      Antelope
57456      Northwest Africa 7870
57457      Northwest Africa 7871
57458      Northwest Africa 7873
Name: name, Length: 45716, dtype: object
```

```
In [474... # Columns

meteorites.columns
```

```
Out[474... Index(['name', 'nametype', 'recclass', 'mass (g)', 'fall', 'year', 'reclat',
      'reclong', 'GeoLocation', 'Fell_before_1970'],
      dtype='object')
```

```
In [475... meteorites.index
```

```
Out[475... Index([    1,     2,     4,     5,     6,     7,     8,     9,    10,    11,
      ...
      57433, 57434, 57435, 57436, 57453, 57454, 57455, 57456, 57457, 57458],
      dtype='int64', name='id', length=45716)
```

```
In [476... # Using API

import requests

response = requests.get(
    'https://data.nasa.gov/resource/gh4g-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
```

```
In [477... payload
```

```

Out[477... [{ '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' } },
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  'id': '379',
  'nametype': 'Valid',
  'recclass': 'EH4',
  'mass': '4239',
  'fall': 'Fell',

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'year': '1919-01-01T00:00:00.000',
'reclat': '32.100000',
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{'name': 'Adzhi-Bogdo (stone)',
'id': '390',
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'mass': '910',
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'year': '1949-01-01T00:00:00.000',
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'reclong': '95.166670',
'geolocation': {'latitude': '44.83333', 'longitude': '95.16667'}},
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'mass': '30000',
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'year': '1814-01-01T00:00:00.000',
'reclat': '44.216670',
'reclong': '0.616670',
'geolocation': {'latitude': '44.21667', 'longitude': '0.61667'}},
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'id': '398',
'nametype': 'Valid',
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'mass': '1620',
'fall': 'Fell',
'year': '1930-01-01T00:00:00.000',
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'reclong': '-65.233330',
'geolocation': {'latitude': '-31.6', 'longitude': '-65.23333'}},
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'mass': '1440',
'fall': 'Fell',
'year': '1920-01-01T00:00:00.000',
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'id': '424',

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    'nametype': 'Valid',
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    'mass': '24000',
    'fall': 'Fell',
    'year': '1925-01-01T00:00:00.000',
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    'geolocation': {'latitude': '19.08333', 'longitude': '8.38333'}},
{'name': 'Aire-sur-la-Lys',
 'id': '425',
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 'reclong': '2.333330',
 'geolocation': {'latitude': '50.66667', 'longitude': '2.33333'}},
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 'id': '426',
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 'recclass': 'L6',
 'mass': '779',
 'fall': 'Fell',
 'year': '1949-01-01T00:00:00.000',
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 'reclong': '35.050000',
 'geolocation': {'latitude': '29.51667', 'longitude': '35.05'}},
{'name': 'Akbarpur',
 'id': '427',
 'nametype': 'Valid',
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 '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',
 'nametype': 'Valid',
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 'mass': '3000',
 'fall': 'Fell',
 'year': '1959-01-01T00:00:00.000',
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 'reclong': '8.433330',
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 'mass': '50000',
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 'reclat': '39.916670',
 'reclong': '42.816670',

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    'geolocation': {'latitude': '39.91667', 'longitude': '42.81667'}},
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 'id': '446',
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 'year': '1957-01-01T00:00:00.000',
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 'reclong': '39.516670',
 'geolocation': {'latitude': '24.41667', 'longitude': '39.51667'}},
{'name': 'Al Zarnkh',
 'id': '447',
 'nametype': 'Valid',
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 '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',
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 'mass': '6000',
 'fall': 'Fell',
 'year': '1806-01-01T00:00:00.000',
 'reclat': '44.116670',
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 'geolocation': {'latitude': '44.11667', 'longitude': '4.08333'}},
{'name': 'Albareto',
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 'nametype': 'Valid',
 'recclass': 'L/LL4',
 'mass': '2000',
 'fall': 'Fell',
 'year': '1766-01-01T00:00:00.000',
 'reclat': '44.650000',
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 'geolocation': {'latitude': '44.65', 'longitude': '11.01667'}},
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 'mass': '625',
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 'reclong': '22.666670',
 'geolocation': {'latitude': '2.0', 'longitude': '22.66667'}},
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 'id': '458',
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 'recclass': 'Eucrite-mmict',
 'mass': '252',

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    'fall': 'Fell',
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    'reclat': '45.821330',
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{'name': 'Aldsworth',
 'id': '461',
 'nametype': 'Valid',
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 'mass': '700',
 'fall': 'Fell',
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 'reclat': '51.783330',
 'reclong': '-1.783330',
 'geolocation': {'latitude': '51.78333', 'longitude': '-1.78333'}},
{'name': 'Aleppo',
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 'fall': 'Fell',
 'year': '1873-01-01T00:00:00.000',
 'reclat': '36.233330',
 'reclong': '37.133330',
 'geolocation': {'latitude': '36.23333', 'longitude': '37.13333'}},
{'name': 'Alessandria',
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 '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'}},
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 'nametype': 'Valid',
 'recclass': 'H4',
 'mass': '9251',
 'fall': 'Fell',
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 'geolocation': {'latitude': '50.95', 'longitude': '31.81667'}},
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 'reclat': '45.266670',
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 'geolocation': {'latitude': '45.26667', 'longitude': '10.15'}},
{'name': 'Allegan',

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'id': '2276',
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'mass': '32000',
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'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',
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'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',
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':@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',
'reclat': '48.700000',
'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',
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{'name': 'Northwest Africa 5815',
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'nametype': 'Valid',
'recclass': 'L5',
'mass': '256.8',
'fall': 'Found',
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'reclong': '0.000000',
'geolocation': {'latitude': '0.0', 'longitude': '0.0'}},
{'name': 'Angers',
'id': '2301',
'nametype': 'Valid',
'recclass': 'L6',
'fall': 'Fell',
'year': '1822-01-01T00:00:00.000',
'reclat': '47.466670',
'reclong': '-0.550000',
'geolocation': {'latitude': '47.46667', 'longitude': '-0.55'}},
{'name': 'Angra dos Reis (stone)',

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'id': '2302',
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'mass': '1500',
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'fall': 'Fell',
'year': '1942-01-01T00:00:00.000',
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'reclong': '39.716670',
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'mass': '2500',
'fall': 'Fell',
'year': '1971-01-01T00:00:00.000',
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'reclong': '105.183330',
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'recclass': 'L6',
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'year': '1984-01-01T00:00:00.000',
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'year': '1803-01-01T00:00:00.000',

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'reclat': '43.866670',
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'recclass': 'H5',
'mass': '810',
'fall': 'Fell',
'year': '1954-01-01T00:00:00.000',
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'reclong': '-66.000000',
'geolocation': {'latitude': '-33.0', 'longitude': '-66.0'}},
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'id': '2329',
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'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',
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{'name': 'Arroyo Aguiar',
'id': '2340',
'nametype': 'Valid',
'recclass': 'H5',
'mass': '7450',
'fall': 'Fell',
'year': '1950-01-01T00:00:00.000',
'reclat': '-31.416670',
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'geolocation': {'latitude': '-31.41667', 'longitude': '-60.66667'}},
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'recclass': 'H6',
'mass': '41',
'fall': 'Fell',
'year': '1805-01-01T00:00:00.000',
'reclat': '42.450000',
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{'name': 'Ash Creek',
'id': '48954',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '9500',
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'year': '2009-01-01T00:00:00.000',
'reclat': '31.805000',
'reclong': '-97.010000',
'geolocation': {'latitude': '31.805', 'longitude': '-97.01'},
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':@computed_region_nnqa_25f4': '774'},
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'id': '2346',
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'mass': '1300',
'fall': 'Fell',
'year': '1923-01-01T00:00:00.000',
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'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',
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'reclong': '12.550000',
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{'name': 'Atarra',
'id': '4883',
'nametype': 'Valid',
'recclass': 'L4',
'mass': '1280',
'fall': 'Fell',
'year': '1920-01-01T00:00:00.000',
'reclat': '25.254170',
'reclong': '80.625000',
'geolocation': {'latitude': '25.25417', 'longitude': '80.625'}},
{'name': 'Atemajac',
'id': '4884',
'nametype': 'Valid',
'recclass': 'L6',
'mass': '94.2',
'fall': 'Fell',
'year': '1896-01-01T00:00:00.000',
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{'name': 'Athens',
'id': '4885',
'nametype': 'Valid',
'recclass': 'LL6',
'mass': '265',
'fall': 'Fell',
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 'mass': '1500',
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 'year': '1857-01-01T00:00:00.000',
 'reclat': '45.050000',

```



```

'reclong': '41.983330',
'geolocation': {'latitude': '45.05', 'longitude': '41.98333'}},
{'name': 'Ste. Marguerite',
'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': 'Tauf',
'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 [478...

```
import pandas as pd

df = pd.DataFrame(payload)
df.head(3)
```

Out[478...

	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 [479...

```
meteorites = pd.read_csv('data/Meteorite_Landings.csv')
```

In [480...

```
# How many rows and columns are there?

meteorites.shape
```

Out[480...

```
(45716, 10)
```

In [481...

```
# What are the column names?

meteorites.columns
```

Out[481...

```
Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
       'reclat', 'reclong', 'GeoLocation'],
      dtype='object')
```

In [482...

```
# What type of data does each column currently hold?

meteorites.dtypes
```

```
Out[482...  name          object
           id          int64
           nametype    object
           recclass    object
           mass (g)    float64
           fall        object
           year        object
           reclat      float64
           reclong     float64
           GeoLocation object
           dtype: object
```

```
In [483...  # What does the data look like?
```

```
meteorites.head(10) # First 10 values of meteorites.csv
```

Out[483...

	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 [484...

```
meteorites.tail(5) # Last 5 values of meteorites.csv
```

Out[484...

	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

In [485...

```
# Get some information about the DataFrame
meteorites.info() # Keep in mind the missing values
```

```
<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 [486...

```
meteorites.name
```

```
Out[486... 0          Aachen
1          Aarhus
2          Abee
3          Acapulco
4          Achiras
...
45711      Zillah 002
45712      Zinder
45713      Zlin
45714      Zubkovsky
45715      Zulu Queen
Name: name, Length: 45716, dtype: object
```

```
In [487... meteorites[["name", "fall", "mass (g)"]]
```

```
Out[487...      name  fall  mass (g)
0    Aachen  Fell    21.0
1    Aarhus  Fell   720.0
2     Abee   Fell 107000.0
3  Acapulco  Fell   1914.0
4   Achiras  Fell    780.0
...      ...   ...     ...
45711  Zillah 002 Found    172.0
45712    Zinder Found     46.0
45713     Zlin  Found      3.3
45714  Zubkovsky Found   2167.0
45715  Zulu Queen Found    200.0
```

45716 rows × 3 columns

```
In [488... # Selecting rows
meteorites[100:104]
```

Out[488...

	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 [489...

```
# Indexing
meteorites.iloc[100:104, [0, 3, 4, 6]]
```

Out[489...

	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 [490...

```
meteorites.loc[100:104, 'mass (g)': 'year']
```

Out[490...

	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 [491...

```
meteorites.iloc[:, -1] # value of last row and last column
```

```
Out[491... 0          (50.775, 6.08333)
1          (56.18333, 10.23333)
2          (54.21667, -113.0)
3          (16.88333, -99.9)
4          (-33.16667, -64.95)
...
45711      (29.037, 17.0185)
45712      (13.78333, 8.96667)
45713      (49.25, 17.66667)
45714      (49.78917, 41.5046)
45715      (33.98333, -115.68333)
Name: GeoLocation, Length: 45716, dtype: object
```

```
In [492... (meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')
```

```
Out[492... 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 [493... meteorites[(meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')]
```

Out[493...

	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 [494...

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


Out[494...

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



In [495...

```
# How many of the meteorites were found versus observed falling?
```

```
meteorites.fall.value_counts()
```

Out[495...

```
fall
Found    44609
Fell      1107
Name: count, dtype: int64
```

In [496...

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

Out[496...

```
nametype fall
Valid      Found    44534
           Fell      1107
Relict     Found       75
Name: count, dtype: int64
```

In [497...

```
# What was the mass of the average meteorite?
type(float(meteorites['mass (g)'].mean()))
```

Out[497...

```
float
```

In [498...

```
meteorites['mass (g)'].quantile([0.01, 0.05, 0.5, 0.95, 0.99])
```

Out[498...

```
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 [499...

```
meteorites['mass (g)'].median()
```

Out[499...] 32.6

```
In [500...] # What was the mass of the heaviest meteorite?  
meteorites['mass (g)'].max()
```

Out[500...] 60000000.0

```
In [501...] meteorites.loc[meteorites['mass (g)'].idxmax()]
```

```
Out[501...] 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 [502...] # How many different types of meteorite classes are represented in this dataset?  
meteorites.recclass.nunique()
```

Out[502...] 466

```
In [503...] meteorites.recclass.unique()[14]
```

```
Out[503...] array(['L5', 'H6', 'EH4', 'Acapulcoite', 'L6', 'LL3-6', 'H5', 'L',  
                'Diogenite-pm', 'Unknown', 'H4', 'H', 'Iron, IVA', 'CR2-an'],  
                dtype=object)
```

```
In [504...] meteorites.describe(include = 'all') # Summary of statistics
```

Out[504...

	name	id	nametype	recclass	mass (g)	fall	year	
count	45716	45716.000000	45716	45716	4.558500e+04	45716	45425	3840
unique	45716	NaN	2	466	NaN	2	266	
top	Aachen	NaN	Valid	L6	NaN	Found	01/01/2003 12:00:00 AM	
freq	1	NaN	45641	8285	NaN	44609	3323	
mean	NaN	26889.735104	NaN	NaN	1.327808e+04	NaN	NaN	-39
std	NaN	16860.683030	NaN	NaN	5.749889e+05	NaN	NaN	46
min	NaN	1.000000	NaN	NaN	0.000000e+00	NaN	NaN	-87
25%	NaN	12688.750000	NaN	NaN	7.200000e+00	NaN	NaN	-76
50%	NaN	24261.500000	NaN	NaN	3.260000e+01	NaN	NaN	-77
75%	NaN	40656.750000	NaN	NaN	2.026000e+02	NaN	NaN	(
max	NaN	57458.000000	NaN	NaN	6.000000e+07	NaN	NaN	87

Exercise (Part 1)

In [505...

```
import pandas as pd
```

In [506...

```
taxis = pd.read_csv('data/2019_Yellow_Taxi_Trip_Data.csv')
```

In [507...

```
# 1.) Create a DataFrame by reading in the 2019_Yellow_Taxi_Trip_Data.csv file. Exa  
  
taxis = pd.DataFrame(df)  
taxis.head(5)
```

Out[507...

	name	id	nametype	recclass	mass	fall	year	reclat	recl
0	Aachen	1	Valid	L5	21	Fell	1880-01-01T00:00:00.000	50.775000	6.083
1	Aarhus	2	Valid	H6	720	Fell	1951-01-01T00:00:00.000	56.183330	10.233
2	Abee	6	Valid	EH4	107000	Fell	1952-01-01T00:00:00.000	54.216670	-113.000
3	Acapulco	10	Valid	Acapulcoite	1914	Fell	1976-01-01T00:00:00.000	16.883330	-99.900
4	Achiras	370	Valid	L6	780	Fell	1902-01-01T00:00:00.000	-33.166670	-64.950

In [508...

```
# 2.) Find the dimensions (number of rows and number of columns) in the data.
taxi.shape
```

Out[508...

```
(45716, 12)
```

In [509...

```
# 3.) Using the data in the 2019_Yellow_Taxi_Trip_Data.csv file, calculate summary
new_taxi = taxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']]

new_taxi.describe()
```

KeyError

Traceback (most recent call last)

Cell In[509], line 2

```
1 # 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.
```

```
----> 2 new_taxis = taxis[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']]
      4 new_taxis.describe()
```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\frame.py:4108, in DataFrame.__getitem__(self, key)

```
4106     if is_iterator(key):
4107         key = list(key)
-> 4108     indexer = self.columns._get_indexer_strict(key, "columns")[1]
4110 # take() does not accept boolean indexers
4111 if getattr(indexer, "dtype", None) == bool:
```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:6200, in Index._get_indexer_strict(self, key, axis_name)

```
6197 else:
6198     keyarr, indexer, new_indexer = self._reindex_non_unique(keyarr)
-> 6200 self._raise_if_missing(keyarr, indexer, axis_name)
6202 keyarr = self.take(indexer)
6203 if isinstance(key, Index):
6204     # GH 42790 - Preserve name from an Index
```

File C:\ProgramData\anaconda3\Lib\site-packages\pandas\core\indexes\base.py:6249, in Index._raise_if_missing(self, key, indexer, axis_name)

```
6247 if nmissing:
6248     if nmissing == len(indexer):
-> 6249         raise KeyError(f"None of [{key}] are in the [{axis_name}]")
6251 not_found = list(ensure_index(key)[missing_mask.nonzero()[0]].unique())
6252 raise KeyError(f"{not_found} not in index")
```

KeyError: "None of [Index(['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount'], dtype='object')] are in the [columns]"

```
In [ ]: # 4.) Isolate the fare_amount, tip_amount, tolls_amount, and total_amount for the longest_trip
longest_trip = taxis.loc[taxis['trip_distance'].idxmax()]
```

```
fare_amount = longest_trip['fare_amount']
fare_amount
```

```
In [ ]: tip_amount = longest_trip['tip_amount']
tip_amount
```

```
In [ ]: tolls_amount = longest_trip['tolls_amount']
tolls_amount
```

```
In [ ]: total_amount = longest_trip['total_amount']
total_amount
```

```
In [ ]: # Essay
# The progression of the lecture is good, it is challenging enough for us to get th
```

```
# It's just there's a lot of function needed in order do something great in the dat  
# Overall, it's a nice practice especially we need to type it all.
```

```
In [ ]: # Day 2
```

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

```
In [ ]: taxi.drop(columns = columns_to_drop)  
taxi.head()
```

```
In [ ]: taxi = taxi.drop(columns = columns_to_drop)  
taxi.head()
```

```
In [ ]: # Renaming columns  
taxi = taxi.rename(  
    columns = {  
        'tpep_pickup_datetime': 'pickup',  
        'tpep_dropoff_datetime': 'dropoff'  
    }  
)
```

```
In [ ]: taxi
```

```
In [ ]: taxi[['pickup', 'dropoff']] = \  
    taxi[['pickup', 'dropoff']].apply(pd.to_datetime)  
taxi.dtypes
```

```
In [ ]: taxi = taxi.assign( # with assign(), it updates the original data frame  
    elapsed_time = lambda x: x.dropoff - x.pickup, # 1 ----- the value was still s  
    cost_before_tip = lambda x: x.total_amount - x.tip_amount,  
    tip_pct = lambda x: x.tip_amount / x.cost_before_tip, # 2  
    fees = lambda x: x.cost_before_tip - x.fare_amount, # 3  
    avg_speed = lambda x: x.trip_distance.div(  
        x.elapsed_time.dt.total_seconds() / 60 / 60  
    ) # 4  
)
```

```
In [ ]: taxi.sort_values('passenger_count', ascending = True).head()
```

```
In [ ]: taxi.sort_values(['passenger_count', 'pickup'], ascending = [True, False]).head()
```

```
In [ ]: taxi.nlargest(3, 'passenger_count') # (number of largest in terms of , 'this param
```

Exercise Part 2

```
In [ ]: import pandas as pd  
meteorites = pd.read_csv('data/Meteorite_Landings.csv')
```

```
In [ ]: meteorites.head(5)
```

```
In [510... # Rename column
meteorites = meteorites.rename(
    columns = {
        'mass (g)' : 'mass'
    }
)
meteorites # changed column name
```

	name	id	nametype	recclass	mass	fall	year	reclat
0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500
1	Aarhus	2	Valid	H6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333
2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333
4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667
...
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	29.03700
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	13.78333
45713	Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	49.25000
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	49.78917
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333

45716 rows × 10 columns



```
In [511... # Drop all the latitude and longitude columns
meteorites = meteorites.drop(columns = ['reclat', 'reclong'])
meteorites
```

Out[511...

	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
...
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	(29.037 17.0185
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	(13.78333 8.96667
45713	Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	(49.25 17.66667
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	(49.78917 41.5046
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	(33.98333 -115.68333

45716 rows × 8 columns



```
In [512... # sort the result by mass in descending order

sorted_meteorites = meteorites.sort_values('mass', ascending = False)
sorted_meteorites
```


Out[512...

	name	id	nametype	recclass	mass	fall	year	GeoLocation
16392	Hoba	11890	Valid	Iron, IVB	60000000.0	Found	01/01/1920 12:00:00 AM	(-19.5833 17.9166
5373	Cape York	5262	Valid	Iron, IIIAB	58200000.0	Found	01/01/1818 12:00:00 AM	(76.1333 -64.9333
5365	Campo del Cielo	5247	Valid	Iron, IAB- MG	50000000.0	Found	12/22/1575 12:00:00 AM	(-27.4666 -60.5833
5370	Canyon Diablo	5257	Valid	Iron, IAB- MG	30000000.0	Found	01/01/1891 12:00:00 AM	(35.0 -111.0333
3455	Armanty	2335	Valid	Iron, IIIE	28000000.0	Found	01/01/1898 12:00:00 AM	(47.0, 88
...
38282	Wei- hui-fu (a)	24231	Valid	Iron	NaN	Found	01/01/1931 12:00:00 AM	Na
38283	Wei- hui-fu (b)	24232	Valid	Iron	NaN	Found	01/01/1931 12:00:00 AM	Na
38285	Weiyuan	24233	Valid	Mesosiderite	NaN	Found	01/01/1978 12:00:00 AM	(35.2666 104.3166
41472	Yamato 792768	28117	Valid	CM2	NaN	Found	01/01/1979 12:00:00 AM	(-71 35.6666
45698	Zapata County	30393	Valid	Iron	NaN	Found	01/01/1930 12:00:00 AM	(27.0, -99

45716 rows × 8 columns



Working with Indexes

In [116...

```
taxis = taxis.set_index('pickup') # 'pickup' is now the index
taxis.head(3)
```

Out[116...

	vendorid	dropoff	passenger_count	trip_distance	ratecodeid	store_and_fwd_flag
pickup						
2019-10-23 16:39:42	2	2019-10-23 17:14:10	1	7.93	1	N
2019-10-23 16:32:08	1	2019-10-23 16:45:26	1	2.00	1	N
2019-10-23 16:08:44	2	2019-10-23 16:21:11	1	1.36	1	N

3 rows × 22 columns



In [123...

```
taxis = taxis.sort_index()
taxis.head(3)
```

Out[123...

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

3 rows × 22 columns



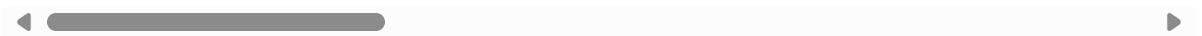
In [128...

```
taxis.sort_index(axis = 0).head(3) # axis = 0 --- sorted by index
```

Out[128...

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

3 rows × 22 columns



In [126...

```
taxis.sort_index(axis = 1).head() # axis = 1 --- sorted by column name
```

Out[126...

	avg_speed	congestion_surcharge	cost_before_tip	dolocationid	dropoff	elapsed
pickup						
2019-10-23 07:05:34	15.265165	0.0	51.8	181	2019-10-23 08:03:16	C 00:
2019-10-23 07:48:58	12.628272	2.5	8.8	141	2019-10-23 07:52:09	C 00:
2019-10-23 08:02:09	0.353989	2.5	36.3	33	2019-10-24 07:42:32	C 23:
2019-10-23 08:18:47	8.289017	2.5	16.8	237	2019-10-23 08:36:05	C 00:
2019-10-23 09:27:16	11.193277	0.0	7.8	41	2019-10-23 09:33:13	C 00:

5 rows × 22 columns



In [136...

```
taxis['2019-10-23 07:45' : '2019-10-23 08']
```

Out[136...

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

3 rows × 22 columns

In [318...

```
taxis = taxis.reset_index() # reload the index
taxis
```

Out[318...

	index	vendorid	tpep_pickup_datetime	tpep_dropoff_datetime	passenger_count	trip
0	0	2	2019-10-23T16:39:42.000	2019-10-23T17:14:10.000	1	
1	1	1	2019-10-23T16:32:08.000	2019-10-23T16:45:26.000	1	
2	2	2	2019-10-23T16:08:44.000	2019-10-23T16:21:11.000	1	
3	3	2	2019-10-23T16:22:44.000	2019-10-23T16:43:26.000	1	
4	4	2	2019-10-23T16:45:11.000	2019-10-23T16:58:49.000	1	
...
9995	9995	1	2019-10-23T17:39:59.000	2019-10-23T17:49:26.000	2	
9996	9996	1	2019-10-23T17:53:02.000	2019-10-23T18:00:45.000	1	
9997	9997	1	2019-10-23T17:07:16.000	2019-10-23T17:11:35.000	1	
9998	9998	1	2019-10-23T17:38:26.000	2019-10-23T17:49:28.000	2	
9999	9999	1	2019-10-23T17:22:14.000	2019-10-23T17:52:09.000	1	

10000 rows × 19 columns



Exercise (Part 3)

In [462...

```
import pandas as pd
meteorites = pd.read_csv('data/Meteorite_Landings.csv')
```

In [463...

```
meteorites['id'].dtype
```

Out[463...

```
dtype('int64')
```

In [464...

```
meteorites
```

Out[464...

	name	id	nametype	recclass	mass (g)	fall	year	reclat
0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500
1	Aarhus	2	Valid	H6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333
2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333
4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667
...
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	29.03700
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	13.78333
45713	Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	49.25000
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	49.78917
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333

45716 rows × 10 columns



In [465...

```
meteorites['year'] = meteorites.year.str.slice(6,11) # Update year column to only c
meteorites['year']
```

```
Out[465... 0      1880
          1      1951
          2      1952
          3      1976
          4      1902
          ...
          45711    1990
          45712    1999
          45713    1939
          45714    2003
          45715    1976
Name: year, Length: 45716, dtype: object
```

```
In [466... meteorites['year'] = year.apply(pd.to_numeric) # convert into numeric
          meteorites['year'].dtype
```

```
Out[466... dtype('float64')
```

```
In [467... meteorites = meteorites.assign(
          Fell_before_1970 = lambda x: x.year < 1970
          )
          meteorites
```

Out[467...

	name	id	nametype	recclass	mass (g)	fall	year	reclat	re
0	Aachen	1	Valid	L5	21.0	Fell	1880.0	50.77500	6.
1	Aarhus	2	Valid	H6	720.0	Fell	1951.0	56.18333	10.
2	Abee	6	Valid	EH4	107000.0	Fell	1952.0	54.21667	-113.
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	1976.0	16.88333	-99.
4	Achiras	370	Valid	L6	780.0	Fell	1902.0	-33.16667	-64.
...
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	1990.0	29.03700	17.
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	1999.0	13.78333	8.
45713	Zlin	30410	Valid	H4	3.3	Found	1939.0	49.25000	17.
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	2003.0	49.78917	41.
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	1976.0	33.98333	-115.

45716 rows × 11 columns



In [468...

```
meteorites = meteorites.set_index('id')
```

In [469...

```
meteorites = meteorites # index is set to 'id'
```

In [470...

```
meteorites = meteorites.sort_index(axis = 0)
meteorites
```


Out[470...

	name	nametype	recclass	mass (g)	fall	year	reclat	reclong	Geol
id									
1	Aachen	Valid	L5	21.0	Fell	1880.0	50.77500	6.08333	
2	Aarhus	Valid	H6	720.0	Fell	1951.0	56.18333	10.23333	(51
4	Abajo	Valid	H5	331.0	Found	1982.0	26.80000	-105.41667	-10
5	Abbott	Valid	H3-6	21100.0	Found	1951.0	36.30000	-104.28333	-10
6	Abee	Valid	EH4	107000.0	Fell	1952.0	54.21667	-113.00000	(5
...	
57454	Mandalay Spring	Valid	L6	2854.0	Found	2012.0	40.89201	-118.55319	(4-11
57455	Antelope	Valid	H4	754.0	Found	2012.0	40.90183	-118.54465	(4-11
57456	Northwest Africa 7870	Valid	L4	42.0	Found	2004.0	0.00000	0.00000	
57457	Northwest Africa 7871	Valid	L6	450.0	Found	2004.0	0.00000	0.00000	
57458	Northwest Africa 7873	Valid	H5-6	446.0	Found	2009.0	0.00000	0.00000	

45716 rows × 10 columns



In [471...

```
meteorites.loc[10036 : 10040] # Extract all rows with ID between 10036 to 10040
```

Out[471...

	name	nametype	recclass	mass (g)	fall	year	reclat	reclong	Ge
id									
10036	Enigma	Valid	H4	94.0	Found	1967.0	31.33333	-82.31667	.
10037	Enon	Valid	Iron, ungrouped	763.0	Found	1883.0	39.86667	-83.95000	
10038	Enshi	Valid	H5	8000.0	Fell	1974.0	30.30000	109.50000	(3
10039	Ensisheim	Valid	LL6	127000.0	Fell	1491.0	47.86667	7.35000	