


In [521...

```
import pandas as pd

meteorites = pd.read_csv('Meteorite_Landings.csv', nrows = 5)
meteorites
```

Out[521...

	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



Series

In [522...

```
meteorites.name
```

Out[522...

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

In [523...

```
meteorites['name']
```

Out[523...

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

Columns

In [524...

```
meteorites.columns
```

```
Out[524...] Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',  
                'reclat', 'reclong', 'GeoLocation'],  
                dtype='object')
```

Index

```
In [525...] meteorites.index
```

```
Out[525...] RangeIndex(start=0, stop=5, step=1)
```

```
In [526...] 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 succesful and returned code: {response.status_code}')  
    payload = None
```

```
In [527...] payload
```

```
Out[527... [{ 'name': 'Aachen',
  'id': '1',
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  'recclass': 'L5',
  'mass': '21',
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  'reclat': '50.775000',
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  'fall': 'Fell',
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  'fall': 'Fell',
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{ 'name': 'Achiras',
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```

```

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```

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```

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```

```

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'nametype': 'Valid',
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'geolocation': {'latitude': '35.27333', 'longitude': '44.21556'}},
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'mass': '2700',

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```

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':@computed_region_cbhk_fwbd': '49',
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'recclass': 'L3',
'mass': '600',
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'reclong': '37.500000',
'geolocation': {'latitude': '48.7', 'longitude': '37.5'}},
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{'name': 'Angra dos Reis (stone)',

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```

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{'name': 'Arroyo Aguiar',
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'mass': '7450',
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'mass': '2000',
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'nametype': 'Valid',
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'nametype': 'Valid',
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{'name': 'Atoka',
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'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'}},
...]
```

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

```
In [528... import pandas as pd

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

How many rows and columns are there?

```
In [529... meteorites.shape
```

```
Out[529... (45716, 10)
```

What are the column names?

```
In [530... meteorites.columns
```

```
Out[530... Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
       'reclat', 'reclong', 'GeoLocation'],
       dtype='object')
```

What are the dtypes?

```
In [531... meteorites.dtypes
```

```
Out[531... name           object
id             int64
nametype       object
recclass       object
mass (g)       float64
fall           object
year           object
reclat         float64
reclong        float64
GeoLocation    object
dtype: object
```

First 10 and last 10 of the dataset "Meteorites.csv"

```
In [532... meteorites.head(10) # first ten
```

Out[532...

	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 [533...

```
meteorites.tail(5) #last five
```

Out[533...

	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

Get some information about the DataFrame

In [534...

```
meteorites.info()
```

```
<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 [535...

```
#Extracting Subsets
```

In [536...

```
meteorites
```

Out[536...

	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 [537...

```
meteorites[['name','fall']]
```

Out[537...

	name	fall
0	Aachen	Fell
1	Aarhus	Fell
2	Abee	Fell
3	Acapulco	Fell
4	Achiras	Fell
...
45711	Zillah 002	Found
45712	Zinder	Found
45713	Zlin	Found
45714	Zubkovsky	Found
45715	Zulu Queen	Found

45716 rows × 2 columns

In [538...

```
#selecting rows
meteorites[100:104]
```

Out[538...

	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 [539...

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

Out[539...

	name	recclass	mass (g)	year
0	Aachen	L5	21.0	01/01/1880 12:00:00 AM
1	Aarhus	H6	720.0	01/01/1951 12:00:00 AM
2	Abee	EH4	107000.0	01/01/1952 12:00:00 AM
3	Acapulco	Acapulcoite	1914.0	01/01/1976 12:00:00 AM
4	Achiras	L6	780.0	01/01/1902 12:00:00 AM
...
45711	Zillah 002	Eucrite	172.0	01/01/1990 12:00:00 AM
45712	Zinder	Pallasite, ungrouped	46.0	01/01/1999 12:00:00 AM
45713	Zlin	H4	3.3	01/01/1939 12:00:00 AM
45714	Zubkovsky	L6	2167.0	01/01/2003 12:00:00 AM
45715	Zulu Queen	L3.7	200.0	01/01/1976 12:00:00 AM

45716 rows × 4 columns

In [540...

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

Out[540...

```
100    2840.0
101     270.0
102   18000.0
103    1440.0
104     960.0
Name: mass (g), dtype: float64
```

In [541...

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

Out[541...

```
100    2840.0
101     270.0
102   18000.0
103    1440.0
104     960.0
Name: mass (g), dtype: float64
```

In [542...

```
#Last column and last row
meteorites.iloc[-1::]
```

Out[542...

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333	-115.68333



```
In [543... meteorites.iloc[-1,-1]
```

```
Out[543... '(33.98333, -115.68333)'
```

```
In [544... (meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')
```

```
Out[544... 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 [545... meteorites[(meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')]
```

Out[545...

	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 [546...

```
meteorites[(meteorites['mass (g)'] > 1e6) & (meteorites.fall == 'Fell')]
```


Out[546...

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
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 [547...

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

Out[547...

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
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 [548...

```
#how many of the meteorite were found versus observed falling?
```

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

Out[548...

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

```
In [549... meteorites.value_counts(subset = ['nametype', 'fall'], normalize = True)
```

```
Out[549... nametype fall
Valid      Found      0.974145
           Fell       0.024215
Relict      Found      0.001641
Name: proportion, dtype: float64
```

```
In [550... meteorites.value_counts(subset = ['nametype', 'fall'])
```

```
Out[550... nametype fall
Valid      Found      44534
           Fell       1107
Relict      Found        75
Name: count, dtype: int64
```

```
In [551... type(meteorites['mass (g)'].mean())
```

```
Out[551... numpy.float64
```

```
In [552... #what was the mass of the average meteorite?
```

```
print(float(meteorites['mass (g)'].mean()))
```

```
13278.078548601512
```

```
In [553... meteorites['mass (g)'].quantile([0.01,0.05,0.5,0.95,0.99])
```

```
Out[553... 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 [554... meteorites['mass (g)'].median()
```

```
Out[554... 32.6
```

```
In [555... #what was the mass of the heaviest meteorite?
```

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

```
Out[555... 60000000.0
```

```
In [556... meteorites.loc[meteorites['mass (g)'].idxmax()]
```

Out[556... 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 [557... meteorites.recclass.nunique()

Out[557... 466

In [558... meteorites.recclass.unique()[:14]

Out[558... array(['L5', 'H6', 'EH4', 'Acapulcoite', 'L6', 'LL3-6', 'H5', 'L',
'Diogenite-pm', 'Unknown', 'H4', 'H', 'Iron, IVA', 'CR2-an'],
dtype=object)

In [559... meteorites.name.unique

Out[559... <bound method Series.unique of 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 [560... meteorites.describe()

Out[560...

	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 [561...

```
meteorites.describe(include='all')
```

Out[561...

	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)


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 [562...

```
import pandas as pd
#1. Create a DataFrame by reading in the 2019_Yellow_Taxi_Trip_Data.csv file. Exami
YellowTaxi = pd.read_csv('2019_Yellow_Taxi_Trip_Data.csv', nrows = 5)
YellowTaxi
```

Out[562...

	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 [563... *#2. Find the dimensions (number of rows and number of columns) in the data.*

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

YellowTaxi.shape
```

Out[563... (10000, 18)

In [564... *#3. Using the data in the 2019_Yellow_Taxi_Trip_Data.csv file, calculate summary st*

```
YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].mean()
```

Out[564...

```
fare_amount    15.106313
tip_amount      2.634494
tolls_amount    0.623447
total_amount    22.564659
dtype: float64
```

In [565...

```
YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].median()
```

Out[565...

```
fare_amount    10.0
tip_amount      2.0
tolls_amount    0.0
total_amount    16.3
dtype: float64
```

In [566...

```
YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].quantile([0.
```

Out[566...

	fare_amount	tip_amount	tolls_amount	total_amount
0.01	3.000	0.000	0.00	6.3000
0.05	4.500	0.000	0.00	9.3000
0.50	10.000	2.000	0.00	16.3000
0.95	52.000	10.361	6.12	67.1075
0.99	62.005	15.860	6.12	82.4000

In [567...

```
YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].max()
```

Out[567...

```
fare_amount    176.0
tip_amount      43.0
tolls_amount   612.0
total_amount   671.8
dtype: float64
```

In [568...

```
YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].describe()
```

Out[568...

	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 [569...

```
YellowTaxi.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10000 entries, 0 to 9999
Data columns (total 18 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   vendorid                             10000 non-null  int64
1   tpep_pickup_datetime                 10000 non-null  object
2   tpep_dropoff_datetime                10000 non-null  object
3   passenger_count                      10000 non-null  int64
4   trip_distance                        10000 non-null  float64
5   ratecodeid                           10000 non-null  int64
6   store_and_fwd_flag                   10000 non-null  object
7   pulocationid                         10000 non-null  int64
8   dolocationid                         10000 non-null  int64
9   payment_type                         10000 non-null  int64
10  fare_amount                          10000 non-null  float64
11  extra                               10000 non-null  float64
12  mta_tax                             10000 non-null  float64
13  tip_amount                           10000 non-null  float64
14  tolls_amount                         10000 non-null  float64
15  improvement_surcharge                10000 non-null  float64
16  total_amount                         10000 non-null  float64
17  congestion_surcharge                 10000 non-null  float64
dtypes: float64(9), int64(6), object(3)
memory usage: 1.4+ MB

```

In [570... *#4. Isolate the fare_amount, tip_amount, tolls_amount, and total_amount for the Lon*

```

res = YellowTaxi.iloc[:,[10,13,14,16]]
res.describe()

```

Out[570...

	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 [571... `res.loc[YellowTaxi['trip_distance'].idxmax()]`

Out[571...

```

fare_amount    176.00
tip_amount     18.29
tolls_amount    6.12
total_amount   201.21
Name: 8338, dtype: float64

```

Reflection


I think that I myself lack experimentation. The lesson is great and all but I wish that I could be better and I thinky by tackling a lot of examples and guidance it made it a lot easier to manipulate. More practice can ensure that I will improve

Data Wrangling:

```
In [572... import pandas as pd

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

```
Out[572...   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 [573... mask = taxi.columns.str.contains('id$|store_and_fwd_flag', regex=True)
columns_to_drop = taxi.columns[mask]
columns_to_drop
```

```
Out[573... Index(['vendorid', 'ratecodeid', 'store_and_fwd_flag', 'pulocationid',
      'dolocationid'],
      dtype='object')
```

```
In [574... taxi = taxi.drop(columns=columns_to_drop)
taxi.head()
```


Out[574...

	tpep_pickup_datetime	tpep_dropoff_datetime	passenger_count	trip_distance	payment_t
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 [575... *#Renaming Columns*

In [576...
`taxis = taxis.rename(
 columns = {
 'tpep_pickup_datetime': 'pickup',
 'tpep_dropoff_datetime': 'dropoff'
 }
)
taxis.head()`

Out[576...

	pickup	dropoff	passenger_count	trip_distance	payment_type	fare_amo
0	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	1	
2	2019-10-23T16:08:44.000	2019-10-23T16:21:11.000	1	1.36	1	
3	2019-10-23T16:22:44.000	2019-10-23T16:43:26.000	1	1.00	1	
4	2019-10-23T16:45:11.000	2019-10-23T16:58:49.000	1	1.96	1	



In [577... `taxis.dtypes`

```
Out[577... pickup          object
dropoff          object
passenger_count  int64
trip_distance    float64
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 [578... taxis[['pickup','dropoff']] = taxis[['pickup','dropoff']].apply(pd.to_datetime)
taxis.dtypes
```

```
Out[578... pickup          datetime64[ns]
dropoff          datetime64[ns]
passenger_count  int64
trip_distance    float64
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 [579... #Creating new columns
taxis = taxis.assign( elapsed_time = lambda x:x.dropoff - x.pickup)

taxis.elapsed_time
```

```
Out[579... 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 [580... taxis = taxis.assign(
    elapsed_time=lambda x: x.dropoff - x.pickup, # 1
    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
    )
)
taxi.dtypes

```

```

Out[580...] pickup          datetime64[ns]
dropoff          datetime64[ns]
passenger_count          int64
trip_distance          float64
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]
cost_before_tip          float64
tip_pct          float64
fees          float64
avg_speed          float64
dtype: object

```

```

In [581...] taxi.sort_values(['passenger_count', 'pickup'], ascending = [False, True]).head()

```

```

Out[581...]

```

	pickup	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra
5997	2019-10-23 15:55:19	2019-10-23 16:08:25	6	1.58	2	10.0	1.0
443	2019-10-23 15:56:59	2019-10-23 16:04:33	6	1.46	2	7.5	1.0
8722	2019-10-23 15:57:33	2019-10-23 16:03:34	6	0.62	1	5.5	1.0
4198	2019-10-23 15:57:38	2019-10-23 16:05:07	6	1.18	1	7.0	1.0
8238	2019-10-23 15:58:31	2019-10-23 16:29:29	6	3.23	2	19.5	1.0



```

In [582...] taxi.nlargest(3, 'elapsed_time')

```

Out[582...

	pickup	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra
7576	2019-10-23 16:52:51	2019-10-24 16:51:44	1	3.75	1	17.5	1.0
6902	2019-10-23 16:51:42	2019-10-24 16:50:22	1	11.19	2	39.5	1.0
4975	2019-10-23 16:18:51	2019-10-24 16:17:30	1	0.70	2	7.0	1.0



In [583...

```
taxis.nlargest(4, 'payment_type')
```

Out[583...

	pickup	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra
1087	2019-10-23 16:54:00	2019-10-23 17:00:06	1	1.28	4	-6.5	-1.0
1411	2019-10-23 16:09:30	2019-10-23 16:31:52	1	2.20	4	14.5	3.5
1540	2019-10-23 16:23:17	2019-10-23 16:30:28	1	1.38	4	-7.0	-1.0
1990	2019-10-23 16:11:44	2019-10-23 16:13:04	1	0.00	4	10.5	0.0



Exercise(part 2)

read in the meteorite data from the Meteorite_Landings.csv, rename the mass(g) column to mass, and drop all the latitude and longitude columns.Sort the result by mass in descending order

In [584...

```
meteorite = pd.read_csv('Meteorite_Landings.csv')
meteorite.head(5)
```

Out[584...

	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 [585...

```
meteorite = meteorite.rename(  
    columns = {  
        'mass (g)': 'mass',  
    }  
)  
meteorite.head(5)
```

Out[585...

	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 [586...

```
mask = meteorite.columns.str.contains('id$', regex=True)  
#columns_to_drop = meteorite.columns[mask]
```

```
#columns_to_drop
mask
```

```
Out[586...] array([False,  True, False, False, False, False, False, False, False,
        False])
```

```
In [587...] """
mask = meteorite.columns.str.contains('id$|reclat','id$|reclong',regex=[True,True])
columns_to_drop = meteorite.columns[mask]
columns_to_drop
"""
meteorite = meteorite.drop(columns = meteorite.columns[meteorite.columns.str.contai
meteorite.head()
```

```
Out[587...]
   name  nametype  recclass  mass  fall      year  reclong  GeoLocation
0  Aachen    Valid        L5   21.0  Fell  01/01/1880  6.08333  (50.775,
   12:00:00  6.08333)
   AM
1  Aarhus    Valid        H6  720.0  Fell  01/01/1951  10.23333  (56.18333,
   12:00:00  10.23333)
   AM
2  Abee      Valid        EH4 107000.0  Fell  01/01/1952 -113.00000  (54.21667,
   12:00:00 -113.0)
   AM
3  Acapulco   Valid  Acapulcoite   1914.0  Fell  01/01/1976 -99.90000  (16.88333,
   12:00:00 -99.9)
   AM
4  Achiras    Valid        L6   780.0  Fell  01/01/1902 -64.95000  (-33.16667,
   12:00:00 -64.95)
   AM
```

```
In [588...] meteorite.sort_values(['mass'], ascending = [False]).head()
```

Out[588...

	name	nametype	recclass	mass	fall	year	reclong	GeoLocati
16392	Hoba	Valid	Iron, IVB	60000000.0	Found	01/01/1920 12:00:00 AM	17.91667	(-19.5833, 17.91667)
5373	Cape York	Valid	Iron, IIIAB	58200000.0	Found	01/01/1818 12:00:00 AM	-64.93333	(76.1333, -64.93333)
5365	Campo del Cielo	Valid	Iron, IAB-MG	50000000.0	Found	12/22/1575 12:00:00 AM	-60.58333	(-27.4667, -60.58333)
5370	Canyon Diablo	Valid	Iron, IAB-MG	30000000.0	Found	01/01/1891 12:00:00 AM	-111.03333	(35.0, -111.03333)
3455	Armanty	Valid	Iron, IIIIE	28000000.0	Found	01/01/1898 12:00:00 AM	88.00000	(47.0, 88.00000)



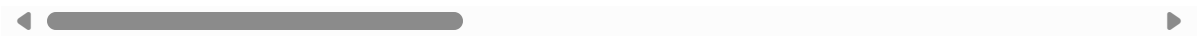
Working with the index

In [589...

```
taxis = taxis.set_index('pickup') #you can choose a row that can be used as an index
taxis.head(3)
```

Out[589...

	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta
2019-10-23 16:39:42	2019-10-23 17:14:10	1	7.93	1	29.5	1.0	
2019-10-23 16:32:08	2019-10-23 16:45:26	1	2.00	1	10.5	1.0	
2019-10-23 16:08:44	2019-10-23 16:21:11	1	1.36	1	9.5	1.0	



In [590...

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

Out[590...

pickup		dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta
2019-10-23 07:05:34	2019-10-23 08:03:16		3	14.68	1	50.0	1.0	
2019-10-23 07:48:58	2019-10-23 07:52:09		1	0.67	2	4.5	1.0	
2019-10-23 08:02:09	2019-10-24 07:42:32		1	8.38	1	32.0	1.0	

In [591...

```
taxis.sort_index(axis=1) #sorted in columns
taxis.head(5)
```

Out[591...

pickup		dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta
2019-10-23 07:05:34	2019-10-23 08:03:16		3	14.68	1	50.0	1.0	
2019-10-23 07:48:58	2019-10-23 07:52:09		1	0.67	2	4.5	1.0	
2019-10-23 08:02:09	2019-10-24 07:42:32		1	8.38	1	32.0	1.0	
2019-10-23 08:18:47	2019-10-23 08:36:05		1	2.39	2	12.5	1.0	
2019-10-23 09:27:16	2019-10-23 09:33:13		2	1.11	2	6.0	1.0	

In [592...

```
taxis.sort_index(axis=0) #sorted in indexes
taxis.head(5)
```


Out[592...

	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta_pickup
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	1	50.0	1.0	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	2	4.5	1.0	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	1	32.0	1.0	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	2	12.5	1.0	
2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	2	6.0	1.0	

In [593...

```
taxi['2019-10 07:45':'2019-10-23 08'] # this is the range of the date you want to
```

Out[593...

	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta_pickup
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	1	50.0	1.0	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	2	4.5	1.0	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	1	32.0	1.0	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	2	12.5	1.0	

In [594...

```
taxi['2019-10 07:45':'2019-10-23 09']
```

Out[594...

	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta
pickup							
2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	1	50.0	1.0	
2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	2	4.5	1.0	
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	1	32.0	1.0	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	2	12.5	1.0	
2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	2	6.0	1.0	
2019-10-23 09:47:25	2019-10-23 09:49:31	2	0.47	2	52.0	4.5	




In [595...

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

Out[595...

	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta
pickup							
2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	1	32.0	1.0	
2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	2	12.5	1.0	



In [596...

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

Out[596...

	pickup	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	mta
	2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	1	32.0	1.0	
	2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	2	12.5	1.0	

In [597...

```
taxis = taxis.reset_index() #this resets the index to normal
taxis.head()
```

Out[597...

	pickup	dropoff	passenger_count	trip_distance	payment_type	fare_amount	extra	m
0	2019-10-23 07:05:34	2019-10-23 08:03:16	3	14.68	1	50.0	1.0	
1	2019-10-23 07:48:58	2019-10-23 07:52:09	1	0.67	2	4.5	1.0	
2	2019-10-23 08:02:09	2019-10-24 07:42:32	1	8.38	1	32.0	1.0	
3	2019-10-23 08:18:47	2019-10-23 08:36:05	1	2.39	2	12.5	1.0	
4	2019-10-23 09:27:16	2019-10-23 09:33:13	2	1.11	2	6.0	1.0	

Exercise (Part 3)

Using the meteorite date from the Meteorite_Landings.csv file, update the year column to only contain the year, convert it to a numeric data type, and create a new column indicating whether the meteorite was observed falling before 1970 . Set the index to the id column and extract all the rows with IDs between 10,036 and 10,040 inclusive with loc[]

Hint 1: Use year.str.slic() to grab a substring. Hint 2: Make sure to sort the index before using loc[] to select the range

Bonus: There's a data entry error in the yaer column. Can you find it?

In [598...

```
meteorite = pd.read_csv('Meteorite_Landings.csv') #Load the data to avoid error
meteorite.head(5)
```

Out[598...

	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 [599...

```
meteorite['year'] = meteorite['year'].str.slice(6,11) #this is used to convert the meteorite
```

Out[599...

	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 [600...

```
meteorite.dtypes #display the current dtype of year
```

Out[600...

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

In [601...

```
meteorite['year'] = meteorite['year'].apply(pd.to_numeric) #this is used to convert
meteorite.dtypes
```

Out[601... name object
id int64
nametype object
recclass object
mass (g) float64
fall object
year float64
reclat float64
reclong float64
GeoLocation object
dtype: object

In [602... meteorite['Fell_Before_1970'] = (meteorite.year < 1970) & (meteorites.fall == 'Fell

In [603... meteorite = meteorite.set_index('id') #you can choose a row that can be used as an

In [604... meteorite.head(5)

Out[604...

	name	nametype	recclass	mass (g)	fall	year	reclat	reclong	GeoLoc
id									
1	Aachen	Valid	L5	21.0	Fell	1880.0	50.77500	6.08333	(56.0
2	Aarhus	Valid	H6	720.0	Fell	1951.0	56.18333	10.23333	(56.1
6	Abee	Valid	EH4	107000.0	Fell	1952.0	54.21667	-113.00000	(54.2
10	Acapulco	Valid	Acapulcoite	1914.0	Fell	1976.0	16.88333	-99.90000	(16.8
370	Achiras	Valid	L6	780.0	Fell	1902.0	-33.16667	-64.95000	(-33.1

◀ ▶

In [605... meteorite.sort_index()

meteorite[10036:10040] #displays the range from 10036 to 10040

Out[605...

	name	nametype	recclass	mass (g)	fall	year	reclat	reclong	GeoLocatio
id									
8432	Elephant Moraine 90022	Valid	CK5	15.5	Found	1990.0	-76.28573	156.45721	(-76.2857 156.4572
8433	Elephant Moraine 90023	Valid	CK5	31.5	Found	1990.0	-76.27507	156.41038	(-76.2750 156.4103
8434	Elephant Moraine 90024	Valid	Eucrite- br	22.8	Found	1990.0	-76.28843	156.47872	(-76.2884 156.4787
8435	Elephant Moraine 90025	Valid	CK5	45.8	Found	1990.0	-76.28200	156.39926	(-76.28 156.3992