```
In [28]: import pandas as pd
          meteorites = pd.read_csv('Meteorite_Landings.csv', nrows=5)
          meteorites
Out[28]:
                                                    mass
                                                           fall
                        id nametype
                                          recclass
                                                                               reclat
                                                                                         reclong (
                name
                                                                      year
                                                      (g)
                                                                01/01/1880
          0
               Aachen
                         1
                                 Valid
                                               L5
                                                                  12:00:00
                                                                            50.77500
                                                                                         6.08333
                                                       21 Fell
                                                                       AM
                                                                01/01/1951
          1
                         2
               Aarhus
                                 Valid
                                              H6
                                                                   12:00:00
                                                                                        10.23333
                                                      720 Fell
                                                                            56.18333
                                                                       AM
                                                                01/01/1952
          2
                         6
                                 Valid
                                             EH4 107000 Fell
                                                                   12:00:00
                                                                            54.21667 -113.00000
                Abee
                                                                       AM
                                                                01/01/1976
          3 Acapulco
                        10
                                 Valid Acapulcoite
                                                     1914 Fell
                                                                   12:00:00
                                                                            16.88333
                                                                                       -99.90000
                                                                       AM
                                                                01/01/1902
               Achiras 370
                                 Valid
                                               L6
                                                      780 Fell
                                                                   12:00:00
                                                                                       -64.95000
                                                                           -33.16667
                                                                       AM
         meteorites.name
 In [3]:
 Out[3]: 0
                 Aachen
                 Aarhus
          1
          2
                    Abee
               Acapulco
                Achiras
          Name: name, dtype: object
 In [4]: meteorites.columns
 Out[4]: Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
                  'reclat', 'reclong', 'GeoLocation'],
                dtype='object')
 In [5]:
         meteorites.index
 Out[5]: RangeIndex(start=0, stop=5, step=1)
In [21]: 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 [ ]: payload
In [24]: df = pd.DataFrame(payload)
         df.head(3)
Out[24]:
             name id nametype recclass
                                            mass fall
                                                                         reclat
                                                                                   reclong g
                                                                year
                                                            1880-01-
                                              21 Fell 01T00:00:00.000
         0 Aachen 1
                            Valid
                                       L5
                                                                     50.775000
                                                                                  6.083330
                                                            1951-01-
                                             720 Fell 01T00:00:00.000
         1 Aarhus 2
                                      H6
                                                                     56.183330
                            Valid
                                                                                 10.233330
                                                            1952-01-
         2
              Abee 6
                            Valid
                                     EH4 107000 Fell
                                                                     54.216670 -113.000000
                                                      01T00:00:00.000
In [36]: meteorites = pd.read_csv('Meteorite_Landings.csv')
         meteorites
```

Out[36]:		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 r	ows × 10 col	umns								
	1010							_			
In [37]:	<pre>meteorites.shape</pre>										
Out[3/]:	(45716, 10)										
In [26]:	meteor	ites.columr	ıs								
Out[26]:	Index(ametype',		'mass (g)	', 'fa]	ll', 'year',			

'reclat', 'reclong', 'GeoLocation'],

dtype='object')

```
In [27]: meteorites.dtypes
                       object
Out[27]: name
         id
                        int64
         nametype
                       object
         recclass
                       object
                        int64
         mass (g)
         fall
                       object
                       object
         year
                    float64
         reclat
         reclong
                      float64
         GeoLocation
                       object
         dtype: object
In [40]: meteorites.head(10)
```

out[40]:		name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
(0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333
	1	Aarhus	2	Valid	Н6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333	10.23333
2	2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667	-113.00000
3	3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000
4	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	7	Agen	392	Valid	H5	30000.0	Fell	01/01/1814 12:00:00 AM	44.21667	0.61667
8	8	Aguada	398	Valid	L6	1620.0	Fell	01/01/1930 12:00:00 AM	-31.60000	-65.23333
9	9	Aguila Blanca	417	Valid	L	1440.0	Fell	01/01/1920 12:00:00 AM	-30.86667	-64.55000
•	4									Þ

In [39]: meteorites.tail()

	name	id	nametype	recclass	mass (g)	fall	year	reclat	r
4571	1 Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	29.03700	17
4571	2 Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	13.78333	8
4571	3 Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	49.25000	17
4571	4 Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	49.78917	41
4571	5 Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333	-115
4 6		_				_			

In [41]: 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 [46]: meteorites[['name','GeoLocation']]

\cap	14-	Γл	c γ	
UI	u L	14	OI	

	name	GeoLocation
0	Aachen	(50.775, 6.08333)
1	Aarhus	(56.18333, 10.23333)
2	Abee	(54.21667, -113.0)
3	Acapulco	(16.88333, -99.9)
4	Achiras	(-33.16667, -64.95)
•••		
45711	Zillah 002	(29.037, 17.0185)
45712	Zinder	(13.78333, 8.96667)
45713	Zlin	(49.25, 17.66667)
45714	Zubkovsky	(49.78917, 41.5046)
45715	Zulu Queen	(33.98333, -115.68333)

45716 rows × 2 columns

In [47]: meteorites[100:104]

Out[47]:

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

In [51]: meteorites.iloc[100:104, [0,3,4,6]]

```
Out[51]:
                     name
                                recclass mass (g)
                                                                   year
          100
                                    LL6
                                           2840.0 01/01/1949 12:00:00 AM
                    Benton
          101
                                     L6
                                            270.0 01/01/2008 12:00:00 AM
                    Berduc
          102
                    Béréba Eucrite-mmict
                                          18000.0 01/01/1924 12:00:00 AM
          103 Berlanguillas
                                           1440.0 01/01/1811 12:00:00 AM
                                     L6
In [50]: meteorites.loc[100:104, 'mass (g)':'year']
Out[50]:
               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
                  960.0 Fell 01/01/2004 12:00:00 AM
          104
In [53]: meteorites.loc[100:104, 'mass (g)']
Out[53]: 100
                  2840.0
          101
                   270.0
                 18000.0
          102
          103
                 1440.0
          104
                   960.0
          Name: mass (g), dtype: float64
In [55]: meteorites.iloc[-1, [9]]
Out[55]: GeoLocation
                          (33.98333, -115.68333)
          Name: 45715, dtype: object
In [56]: (meteorites['mass (g)'] >50) & (meteorites.fall == 'Found')
Out[56]: 0
                   False
                   False
          1
          2
                   False
          3
                   False
                   False
                   . . .
          45711
                    True
          45712
                   False
          45713
                   False
          45714
                   True
          45715
                    True
          Length: 45716, dtype: bool
In [57]: | meteorites[(meteorites['mass (g)'] > 1e6) & (meteorites.fall =='Fell')]
```

Out[57]:		name	id	nametype	recclass	mass (g)	fall	year	reclat	reclon
	29	Allende	2278	Valid	CV3	2000000.0	Fell	01/01/1969 12:00:00 AM	26.96667	-105.3166
	419	Jilin	12171	Valid	Н5	4000000.0	Fell	01/01/1976 12:00:00 AM	44.05000	126.1666
	506	Kunya- Urgench	12379	Valid	Н5	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
	4	_	_							•
In [59]:	mete	orites.qu	iery("`n	nass (g)`>	1e6 and	fall =='Fe	11'")			
Out[59]:		name	id	nametype	recclass	mass (g)	fall	year	reclat	reclon
Out[59]:	29	name Allende				mass (g) 2000000.0		01/01/1969		-105.3166
Out[59]:	29	Allende		Valid			Fell	01/01/1969 12:00:00 AM 01/01/1976		
Out[59]:		Allende	2278	Valid	CV3	2000000.0	Fell	01/01/1969 12:00:00 AM 01/01/1976 12:00:00	26.96667	-105.3166
Out[59]:	419	Allende Jilin Kunya-	2278 12171	Valid	CV3	2000000.0	Fell	01/01/1969 12:00:00 AM 01/01/1976 12:00:00 AM 01/01/1998 12:00:00	26.96667 44.05000	-105.3166 126.1666
Out[59]:	419 506	Allende Jilin Kunya- Urgench Norton	2278 12171 12379	Valid Valid	CV3 H5	2000000.0 4000000.0 1100000.0	Fell Fell	01/01/1969 12:00:00 AM 01/01/1976 12:00:00 AM 01/01/1998 12:00:00 AM 01/01/1948 12:00:00	26.96667 44.05000 42.25000	-105.3166 126.1666 59.2000
Out[59]:	419 506 707	Allende Jilin Kunya- Urgench Norton County Sikhote-	2278 12171 12379 17922	Valid Valid Valid	CV3 H5 Aubrite	2000000.0 4000000.0 1100000.0	Fell Fell	01/01/1969 12:00:00 AM 01/01/1976 12:00:00 AM 01/01/1998 12:00:00 AM 01/01/1948 12:00:00 AM	26.96667 44.05000 42.25000 39.68333	-105.3166 126.1666 59.2000 -99.8666
Out[59]: In [60]:	419 506 707 920	Allende Jilin Kunya- Urgench Norton County Sikhote- Alin	2278 12171 12379 17922 23593	Valid Valid Valid	CV3 H5 Aubrite	2000000.0 4000000.0 1100000.0	Fell Fell	01/01/1969 12:00:00 AM 01/01/1976 12:00:00 AM 01/01/1998 12:00:00 AM 01/01/1948 12:00:00 AM	26.96667 44.05000 42.25000 39.68333	-105.3166 126.1666 59.2000 -99.8666

Out[60]: fall

Found 44609 1107 Fell

Name: count, dtype: int64

In [61]: meteorites.value_counts(subset=['nametype', 'fall'],normalize=True)

```
Out[61]: nametype fall
         Valid
                    Found
                             0.974145
                    Fell
                             0.024215
          Relict
                    Found
                             0.001641
         Name: proportion, dtype: float64
In [62]: meteorites.value_counts(subset=['nametype', 'fall'],normalize=False)
Out[62]: nametype fall
         Valid
                    Found
                             44534
                    Fell
                              1107
          Relict
                    Found
                                75
         Name: count, dtype: int64
In [66]: flot = meteorites['mass (g)'].mean()
         print(float(flot))
        13278.078548601512
In [67]: meteorites['mass (g)'].quantile([0.01,0.05,0.5,0.95,0.99])
Out[67]: 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 [68]: meteorites['mass (g)'].median()
Out[68]: 32.6
In [69]:
         meteorites['mass (g)'].max()
Out[69]: 60000000.0
In [72]: meteorites.loc[meteorites['mass (g)'].idxmax()]
Out[72]: name
                                           Hoba
          id
                                          11890
         nametype
                                          Valid
                                      Iron, IVB
          recclass
                                     60000000.0
         mass (g)
         fall
                                          Found
                         01/01/1920 12:00:00 AM
         year
          reclat
                                      -19.58333
          reclong
                                       17.91667
                          (-19.58333, 17.91667)
          GeoLocation
         Name: 16392, dtype: object
In [73]: meteorites.recclass.nunique()
Out[73]: 466
```

```
meteorites.name.nunique()
In [75]:
Out[75]: 45716
In [74]: meteorites.recclass.unique()[:14]
Out[74]: array(['L5', 'H6', 'EH4', 'Acapulcoite', 'L6', 'LL3-6', 'H5', 'L',
                  'Diogenite-pm', 'Unknown', 'H4', 'H', 'Iron, IVA', 'CR2-an'],
                dtype=object)
In [77]: meteorites.describe()
Out[77]:
                                                  reclat
                           id
                                  mass (g)
                                                              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
                     1.000000 0.000000e+00
                                              -87.366670
                                                          -165.433330
           min
           25% 12688.750000 7.200000e+00
                                                             0.000000
                                              -76.714240
           50% 24261.500000 3.260000e+01
                                              -71.500000
                                                            35.666670
           75% 40656.750000 2.026000e+02
                                                0.000000
                                                           157.166670
                                                           354.473330
           max 57458.000000 6.000000e+07
                                               81.166670
```

In [78]: meteorites.describe(include='all')

		_		_	
\cap	14-	Г7	10	7	
V /I		1 /	\circ	- 1	

	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	-71
75%	NaN	40656.750000	NaN	NaN	2.026000e+02	NaN	NaN	(
max	NaN	57458.000000	NaN	NaN	6.000000e+07	NaN	NaN	8.

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 rows2.. Find the dimensions (number of rows and number of columns) in the dat3.a. 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 colum4.ns. Isolate the fare_amount, tip_amount, tolls_amount, and total_amount for the longest trip by distance (trip_distance).

```
In [80]: import pandas as pd

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

Out[80]:	ven	dorid tpep_	oickup_datetime	tpep_dropoff_	datetime pas	ssenger_count	trip_distance
	0	2	2019-10- 23T16:39:42.000	23T17	2019-10- :14:10.000	1	7.93
	1	1	2019-10- 23T16:32:08.000	23T16	2019-10- :45:26.000	1	2.00
	2	2	2019-10- 23T16:08:44.000	23T16	2019-10- :21:11.000	1	1.36
	3	2	2019-10- 23T16:22:44.000	23T16	2019-10- :43:26.000	1	1.00
	4	2	2019-10- 23T16:45:11.000	23T16	2019-10- :58:49.000	1	1.96
	4						•
In [83]:	Yellow	Taxi.shape					
Out[83]:	(10000), 18)					
In [97]:	Yellow	Taxi[['fare_	_amount', 'tip_	amount', 'tol	ls_amount',	'total_amount	']].describe(
Out[97]:		fare_amoun	t tip_amount	tolls_amount	total_amount	:	
	count	10000.000000	10000.000000	10000.000000	10000.000000)	
	mean	15.106313		0.623447	10000.000000 22.564659		
			3 2.634494				
	mean	15.106313	2.634494 3.409800	0.623447	22.564659		
	mean std	15.106313 13.954762	2.634494 3.409800 0.000000	0.623447 6.437507	22.564659 19.209255		
	mean std min	15.106313 13.954762 -52.000000	2.634494 3.409800 0.000000 0.0000000	0.623447 6.437507 -6.120000	22.564659 19.209255 -65.920000		
	mean std min 25%	15.106313 13.954762 -52.000000 7.000000	2.634494 3.409800 0.000000 0.0000000 2.000000	0.623447 6.437507 -6.120000 0.000000	22.564659 19.209255 -65.920000 12.375000		
	mean std min 25% 50%	15.106313 13.954762 -52.000000 7.000000	2.634494 3.409800 0.000000 0.000000 2.000000 0.3.250000	0.623447 6.437507 -6.120000 0.000000	22.564659 19.209255 -65.920000 12.375000 16.300000		
	mean std min 25% 50% 75% max	15.106313 13.954762 -52.000000 7.000000 10.000000 16.000000	2.634494 3.409800 0.000000 0.000000 2.000000 0.3.250000 0.43.000000	0.623447 6.437507 -6.120000 0.000000 0.000000 612.000000	22.564659 19.209255 -65.920000 12.375000 16.300000 22.880000 671.800000		
In [98]:	mean std min 25% 50% 75% max	15.106313 13.954762 -52.000000 7.000000 10.000000 16.000000	2.634494 3.409800 0.000000 0.000000 2.000000 0.3.250000	0.623447 6.437507 -6.120000 0.000000 0.000000 612.000000	22.564659 19.209255 -65.920000 12.375000 16.300000 22.880000 671.800000		']].mean()
In [98]: Out[98]:	mean std min 25% 50% 75% max Yellow fare_a tip_an tolls_ total_	15.106313 13.954762 -52.000000 7.000000 10.000000 176.000000 Taxi[['fare_ amount 1: amount 2:	2.634494 3.409800 0.000000 0.000000 2.000000 0.3.250000 0.43.000000	0.623447 6.437507 -6.120000 0.000000 0.000000 612.000000	22.564659 19.209255 -65.920000 12.375000 16.300000 22.880000 671.800000		']].mean()

```
tip_amount
                             2.0
           tolls_amount
                             0.0
           total_amount
                            16.3
           dtype: float64
In [100...
          YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].quantile(
Out[100...
                 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
           YellowTaxi[['fare_amount', 'tip_amount', 'tolls_amount', 'total_amount']].max()
In [101...
Out[101...
           fare amount
                            176.0
           tip_amount
                             43.0
           tolls_amount
                            612.0
           total_amount
                            671.8
           dtype: float64
In [102...
          YellowTaxi.trip_distance
Out[102...
           0
                   7.93
           1
                   2.00
           2
                   1.36
           3
                   1.00
                   1.96
                   . . .
           9995
                   1.30
           9996
                   1.40
                   0.70
           9997
                   2.50
           9998
           9999
                   3.00
           Name: trip_distance, Length: 10000, dtype: float64
In [106...
          YellowTaxi.trip_distance(subset=['fare_amount','tip_amount','tolls_amount','total_a
           Cell In[106], line 1
             YellowTaxi.trip_distance(subset=['fare_amount','tip_amount'],normalize = True).
         SyntaxError: invalid syntax
In [108...
           Distance = YellowTaxi.iloc[:,[10,13,14,16]]
          Distance.describe()
```

Out[99]: fare_amount

10.0

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	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

Distance.loc[YellowTaxi["trip_distance"].idxmax()] In [109...

Out[109...

fare_amount 176.00 tip_amount 18.29 tolls_amount 6.12 total_amount 201.21

Name: 8338, dtype: float64

Introducing Pandas has refreshed my memory of my last sub VDA and this has taught me more and has helped me access data and how to put a play on it, even though there were hard parts like the question 4 in exercise 1, but did it!