```
In [19]: import pandas as pd
          meteorites = pd.read_csv('Meteorite_Landings.csv',nrows = 5)
          meteorites
Out[19]:
                                                     mass
                        id nametype
                                          recclass
                                                           fall
                                                                               reclat
                                                                                         reclong (
                name
                                                                      year
                                                       (g)
                                                                01/01/1880
          0
              Aachen
                                 Valid
                                               L5
                         1
                                                       21 Fell
                                                                   12:00:00
                                                                             50.77500
                                                                                         6.08333
                                                                       AM
                                                                01/01/1951
          1
               Aarhus
                         2
                                 Valid
                                                                   12:00:00
                                               H6
                                                      720 Fell
                                                                             56.18333
                                                                                        10.23333
                                                                       AM
                                                                01/01/1952
          2
                 Abee
                         6
                                 Valid
                                              EH4 107000 Fell
                                                                   12:00:00
                                                                             54.21667 -113.00000
                                                                       AM
                                                                01/01/1976
          3 Acapulco
                        10
                                 Valid Acapulcoite
                                                     1914 Fell
                                                                   12:00:00
                                                                             16.88333
                                                                                       -99.90000
                                                                       AM
                                                                01/01/1902
                                 Valid
               Achiras 370
                                               L6
                                                      780 Fell
                                                                   12:00:00 -33.16667
                                                                                       -64.95000
                                                                       AM
          Series
         meteorites.name
In [15]:
Out[15]: 0
                 Aachen
          1
                 Aarhus
          2
                    Abee
               Acapulco
                Achiras
          Name: name, dtype: object
In [16]: meteorites['name']
Out[16]: 0
                 Aachen
                 Aarhus
          1
          2
                    Abee
               Acapulco
          3
                Achiras
          Name: name, dtype: object
          Columns
In [17]: meteorites.columns
```

```
Out[17]: Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
                 'reclat', 'reclong', 'GeoLocation'],
                dtype='object')
         Index
In [18]: meteorites.index
Out[18]: RangeIndex(start=0, stop=5, step=1)
In [29]: import requests
         response = requests.get(
             'https://data.nasa.gov/resource/gh4g-9sfh.json',
             params = {'$limit': 50_000}
         if response.ok:
             payload = response.json()
             print(f'Request was not succesful and returned code: {response.status_code}')
             payload = None
 In [ ]: payload
         df = pd.DataFrame(payload) df.head(3)
In [34]: import pandas as pd
         meteorites = pd.read_csv('Meteorite_Landings.csv')
         How many rows and columns are there?
In [35]: meteorites.shape
Out[35]: (45716, 10)
         What are the column names?
In [37]: meteorites.columns
Out[37]: Index(['name', 'id', 'nametype', 'recclass', 'mass (g)', 'fall', 'year',
                 'reclat', 'reclong', 'GeoLocation'],
                dtype='object')
         What are the dtypes?
In [41]: meteorites.dtypes
```

```
Out[41]: name
                   object
        id
                       int64
        nametype object recclass object
                   float64
        mass (g)
        fall
                     object
                      object
        year
                      float64
        reclat
        reclong
                      float64
        GeoLocation
                       object
        dtype: object
```

deype. object

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

In [42]: meteorites.head(10) # first ten

Out[42]:		name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong
	0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333
	1	Aarhus	2	Valid	Н6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333	10.23333
	2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667	-113.00000
	3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000
	4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667	-64.95000
	5	Adhi Kot	379	Valid	EH4	4239.0	Fell	01/01/1919 12:00:00 AM	32.10000	71.80000
	6	Adzhi- Bogdo (stone)	390	Valid	LL3-6	910.0	Fell	01/01/1949 12:00:00 AM	44.83333	95.16667
	7	Agen	392	Valid	H5	30000.0	Fell	01/01/1814 12:00:00 AM	44.21667	0.61667
	8	Aguada	398	Valid	L6	1620.0	Fell	01/01/1930 12:00:00 AM	-31.60000	-65.23333
	9	Aguila Blanca	417	Valid	L	1440.0	Fell	01/01/1920 12:00:00 AM	-30.86667	-64.55000
	4									•

In [43]: meteorites.tail(5) #last five

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

Get some information about the DataFrame

## In [44]: 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
dtyp	es: float64(3	), int64(1), obj	ect(6)

memory usage: 3.5+ MB

## In [ ]: #Extracting Subsets

In [45]: meteorites

Out[45]:		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	Н6	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
	45746	ows × 10 col							

45716 rows × 10 columns

**1** 

Out[49]:		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 [51]: #selecting rows
meteorites[100:104]

Out[51]:

	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 [57]: #Indexing

meteorites.iloc[:,[0,3,4,6]]

```
Out[57]:
                       name
                                        recclass mass (g)
                                                                            year
              0
                     Aachen
                                             L5
                                                     21.0 01/01/1880 12:00:00 AM
               1
                                                    720.0 01/01/1951 12:00:00 AM
                      Aarhus
                                             H6
              2
                       Abee
                                            EH4
                                                 107000.0 01/01/1952 12:00:00 AM
                                                   1914.0 01/01/1976 12:00:00 AM
              3
                    Acapulco
                                     Acapulcoite
              4
                     Achiras
                                                    780.0 01/01/1902 12:00:00 AM
                                             L6
          45711
                   Zillah 002
                                                    172.0 01/01/1990 12:00:00 AM
                                         Eucrite
          45712
                      Zinder
                              Pallasite, ungrouped
                                                     46.0 01/01/1999 12:00:00 AM
          45713
                                            H4
                                                      3.3 01/01/1939 12:00:00 AM
                        Zlin
          45714
                   Zubkovsky
                                                   2167.0 01/01/2003 12:00:00 AM
                                             L6
          45715 Zulu Queen
                                           L3.7
                                                    200.0 01/01/1976 12:00:00 AM
         45716 rows × 4 columns
 In [ ]: meteorites.loc[100:104,'mass (g)']
In [61]: meteorites.loc[100:104, 'mass (g)']
Out[61]: 100
                   2840.0
          101
                    270.0
                  18000.0
          102
          103
                   1440.0
          104
                    960.0
          Name: mass (g), dtype: float64
In [65]: #last column and last row
          meteorites.iloc[-1::]
Out[65]:
                                                     mass
                                                              fall
                             id nametype recclass
                  name
                                                                        year
                                                                                 reclat
                                                                                           reclong
                                                       (g)
                                                                   01/01/1976
                   Zulu
                         30414
          45715
                                     Valid
                                               L3.7 200.0 Found
                                                                     12:00:00
                                                                              33.98333 -115.68333
                                                                          AM
In [71]: meteorites.iloc[-1,-1]
Out[71]: '(33.98333, -115.68333)'
In [72]:
          (meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')
```

```
Out[72]: 0
                  False
         1
                  False
         2
                  False
         3
                  False
                  False
                  . . .
         45711
                  True
         45712
                  False
         45713
                  False
         45714
                  True
         45715
                   True
         Length: 45716, dtype: bool
In [73]: meteorites[(meteorites['mass (g)'] > 50) & (meteorites.fall == 'Found')]
```

_			
( ) i	11-1	7.2	
$\cup$ $\cup$	a し [	/ )	

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

18854 rows × 10 columns

In [75]: meteorites[(meteorites['mass (g)'] > 1e6) & (meteorites.fall == 'Fell')]

Out[75]:		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	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
	4 @		_							•
In [80]:	mete	orites.qu	iery("`n	mass (g)` >	1e6 and	fall == 'F	ell'	")		
<pre>In [80]: Out[80]:</pre>	mete	orites.qu name		nass (g)`>		fall == 'Fo		") year	reclat	reclon
	mete					mass (g)				-105.3166
		<b>name</b> Allende	id	nametype	recclass	mass (g)	<b>fall</b> Fell	<b>year</b> 01/01/1969 12:00:00		<u> </u>
	29	<b>name</b> Allende	id 2278	<b>nametype</b> Valid	recclass CV3	mass (g) 2000000.0	<b>fall</b> Fell	year 01/01/1969 12:00:00 AM 01/01/1976 12:00:00	26.96667	-105.3166
	29 419	name  Allende  Jilin  Kunya-	id 2278 12171	nametype  Valid  Valid	recclass CV3 H5	mass (g) 2000000.0 4000000.0	fall Fell	year  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
	29 419 506	name  Allende  Jilin  Kunya- Urgench  Norton	id 2278 12171 12379	nametype  Valid  Valid  Valid	recclass  CV3  H5  H5	mass (g) 2000000.0 4000000.0 1100000.0	fall Fell Fell	year  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

In [86]: #how many of the meteorite were found versus observed falling?
meteorites.fall.value\_counts()

Out[86]: fall

Found 44609 Fell 1107

Name: count, dtype: int64

```
In [91]: meteorites.value_counts(subset = ['nametype', 'fall'], normalize = True)
 Out[91]: nametype fall
           Valid
                     Found
                              0.974145
                     Fell
                              0.024215
           Relict
                     Found
                              0.001641
           Name: proportion, dtype: float64
 In [92]: meteorites.value_counts(subset = ['nametype', 'fall'])
 Out[92]: nametype fall
           Valid
                     Found
                              44534
                     Fell
                               1107
                     Found
                                 75
           Relict
           Name: count, dtype: int64
In [101...
          type(meteorites['mass (g)'].mean())
Out[101...
          numpy.float64
In [103...
          #what was the mass of the average meteorite?
          print(float(meteorites['mass (g)'].mean()))
         13278.078548601512
 In [99]: meteorites['mass (g)'].quantile([0.01,0.05,0.5,0.95,0.99])
 Out[99]: 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 [104...
          meteorites['mass (g)'].median()
Out[104...
          32.6
In [109...
          #what was the mass of the heaviest meteorite?
          meteorites['mass (g)'].max()
Out[109...
           60000000.0
          meteorites.loc[meteorites['mass (g)'].idxmax()]
In [111...
```

```
Out[111...
           name
                                              Hoba
           id
                                             11890
                                             Valid
           nametype
           recclass
                                         Iron, IVB
                                        60000000.0
           mass (g)
           fall
                                             Found
           year
                           01/01/1920 12:00:00 AM
                                         -19.58333
           reclat
           reclong
                                          17.91667
                          (-19.58333, 17.91667)
           GeoLocation
           Name: 16392, dtype: object
In [112...
          meteorites.recclass.nunique()
Out[112...
           466
In [115...
           meteorites.recclass.unique()[:14]
           array(['L5', 'H6', 'EH4', 'Acapulcoite', 'L6', 'LL3-6', 'H5', 'L',
Out[115...
                   'Diogenite-pm', 'Unknown', 'H4', 'H', 'Iron, IVA', 'CR2-an'],
                 dtype=object)
In [114...
           meteorites.name.unique
Out[114...
           <bound method Series.unique of 0</pre>
                                                          Aachen
                        Aarhus
           2
                           Abee
           3
                       Acapulco
                        Achiras
                    Zillah 002
           45711
                         Zinder
           45712
           45713
                           Zlin
           45714
                     Zubkovsky
           45715
                    Zulu Queen
           Name: name, Length: 45716, dtype: object>
In [117...
          meteorites.describe()
Out[117...
                            id
                                                     reclat
                                    mass (g)
                                                                 reclong
           count 45716.000000 4.558500e+04 38401.000000 38401.000000
           mean 26889.735104 1.327808e+04
                                                -39.122580
                                                               61.074319
                 16860.683030 5.749889e+05
                                                 46.378511
                                                               80.647298
             std
             min
                      1.000000 0.000000e+00
                                                -87.366670
                                                             -165.433330
```

0.000000

35.666670

157.166670

354.473330

-76.714240

-71.500000

0.000000

81.166670

12688.750000 7.200000e+00

**50%** 24261.500000 3.260000e+01

**75%** 40656.750000 2.026000e+02

max 57458.000000 6.000000e+07

25%

In [118...

meteorites.describe(include='all')

Out[118...

	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	-7 <i>′</i>
75%	NaN	40656.750000	NaN	NaN	2.026000e+02	NaN	NaN	(
max	NaN	57458.000000	NaN	NaN	6.000000e+07	NaN	NaN	8.
4								•

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 [122...
```

```
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[122...
              vendorid tpep_pickup_datetime tpep_dropoff_datetime passenger_count trip_distance
                                    2019-10-
                                                           2019-10-
           0
                                                                                   1
                                                                                              7.93
                     2
                              23T16:39:42.000
                                                      23T17:14:10.000
                                    2019-10-
                                                           2019-10-
                                                                                              2.00
           1
                     1
                                                                                   1
                              23T16:32:08.000
                                                      23T16:45:26.000
                                    2019-10-
                                                           2019-10-
           2
                     2
                                                                                              1.36
                               23T16:08:44.000
                                                      23T16:21:11.000
                                    2019-10-
                                                           2019-10-
           3
                     2
                                                                                              1.00
                               23T16:22:44.000
                                                      23T16:43:26.000
                                    2019-10-
                                                           2019-10-
                     2
                                                                                   1
                                                                                              1.96
           4
                              23T16:45:11.000
                                                      23T16:58:49.000
In [134...
           #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
           (10000, 18)
Out[134...
In [136...
           #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[136...
           fare amount
                            15.106313
           tip_amount
                             2.634494
           tolls_amount
                             0.623447
           total_amount
                            22.564659
           dtype: float64
In [137...
          YellowTaxi[['fare_amount','tip_amount','tolls_amount','total_amount']].median()
Out[137...
           fare_amount
                            10.0
           tip_amount
                             2.0
           tolls amount
                             0.0
           total_amount
                            16.3
           dtype: float64
In [140...
          YellowTaxi[['fare_amount','tip_amount','tolls_amount','total_amount']].quantile([0.
```

In [153... 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
    tpep_dropoff_datetime 10000 non-null object
    passenger_count
 3
                         10000 non-null int64
4
   trip_distance
                         10000 non-null float64
 5
   ratecodeid
                         10000 non-null int64
   store_and_fwd_flag 10000 non-null object
 6
7
    pulocationid
                         10000 non-null int64
    dolocationid
                        10000 non-null int64
 9
                         10000 non-null int64
    payment type
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 [157... #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[157...

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

```
Out[159... 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 l	esson 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 practi-	ice can ensure that I will in	nprove

In [ ]:				
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