```
In [4]:
          import pandas as pd
In [8]:
          # 1. Create a DataFrame for the 201908-citibike-tripdata data.
          df = pd.read_csv("201908-citibike-tripdata/201908-citibike-tripdata.csv")
          df.head()
Out[8]:
                                                       start
                                                                   start
                                                                              start
                                                                                          start
                                                                                                   end
                                                                                                             er
             tripduration
                             starttime
                                           stoptime
                                                     station
                                                                 station
                                                                            station
                                                                                        station
                                                                                                station
                                                                                                          static
                                                          id
                                                                  name
                                                                           latitude
                                                                                     longitude
                                                                                                    id
                                                                                                           nan
                                                               Forsyth St
                                                                                                        Market
                            2019-08-01
                                         2019-08-01
         0
                     393
                                                       531.0
                                                               & Broome
                                                                         40.718939
                                                                                    -73.992663
                                                                                                  408.0
                                                                                                         & Cher
                          00:00:01.4680 00:06:35.3780
                                                                      St
                                                                Lafayette
                                                                                                        Bergen
                            2019-08-01
                                         2019-08-01
          1
                     627
                                                       274.0
                                                              Ave & Fort
                                                                         40.686919 -73.976682
                                                                                                 3409.0
                                                                                                         & Smi
                          00:00:01.9290
                                       00:10:29.7840
                                                               Greene Pl
                                                               Front St &
                                                                                                         Preside
                            2019-08-01
                                         2019-08-01
         2
                    1132
                                                      2000.0
                                                             Washington
                                                                         40.702551 -73.989402
                                                                                                 3388.0
                                                                                                             St
                          00:00:04.0480
                                       00:18:56.1650
                                                                      St
                                                                                                         Henry
                                                                                                        Rivingto
                            2019-08-01
                                         2019-08-01
                                                              9 Ave & W
                                                                                                             St
         3
                    1780
                                                       479.0
                                                                          40.760193 -73.991255
                                                                                                  473.0
                          00:00:04.1630
                                       00:29:44.7940
                                                                   45 St
                                                                                                          Chryst
                            2019-08-01
                                         2019-08-01
                                                               1 Ave & E
                                                                                                          1 Ave
                   1517
                                                      3312.0
                                                                          40.781721 -73.945940
                                                                                                 3312.0
                          00:00:05.4580
                                       00:25:23.4550
                                                                   94 St
                                                                                                           E 94
In [7]:
          # 2. Check the datatypes of your columns.
          df.dtypes
         tripduration
                                           int64
Out[7]:
         starttime
                                          object
         stoptime
                                          object
         start station id
                                        float64
                                          object
         start station name
                                        float64
         start station latitude
         start station longitude
                                        float64
         end station id
                                        float64
         end station name
                                         object
                                        float64
         end station latitude
         end station longitude
                                        float64
         bikeid
                                           int64
         usertype
                                          object
         birth year
                                           int64
         gender
                                           int64
         dtype: object
In [9]:
          # 3. Convert the 'tripduration' column to datetime datatype.
          df.tripduration = pd.to datetime(df.tripduration,unit = "s")
          df.head()
```

Out[9]:

	tripduration	starttime	stoptime	start station id	start station name	start station latitude	start station longitude	end station id	er static nan
0	1970-01-01 00:06:33	2019-08-01 00:00:01.4680	2019-08-01 00:06:35.3780	531.0	Forsyth St & Broome St	40.718939	-73.992663	408.0	Market & Cher
1	1970-01-01 00:10:27	2019-08-01 00:00:01.9290	2019-08-01 00:10:29.7840	274.0	Lafayette Ave & Fort Greene Pl	40.686919	-73.976682	3409.0	Bergen & Smi
2	1970-01-01 00:18:52	2019-08-01 00:00:04.0480	2019-08-01 00:18:56.1650	2000.0	Front St & Washington St	40.702551	-73.989402	3388.0	Preside St Henry
3	1970-01-01 00:29:40	2019-08-01 00:00:04.1630	2019-08-01 00:29:44.7940	479.0	9 Ave & W 45 St	40.760193	-73.991255	473.0	Rivingto St Chryst
4	1970-01-01 00:25:17	2019-08-01 00:00:05.4580	2019-08-01 00:25:23.4550	3312.0	1 Ave & E 94 St	40.781721	-73.945940	3312.0	1 Ave E 94
4									•

In [10]:

4. Check the datatypes of your columns. df.dtypes

Out[10]:

tripduration datetime64[ns] starttime object object stoptime float64 start station id start station name object float64 start station latitude start station longitude float64 end station id float64 end station name object end station latitude float64 end station longitude float64 int64 bikeid usertype object birth year int64 gender int64 dtype: object

In [11]:

5. Export the Dataframe as a new CSV file without the index.
df.to_csv("cleancitibike.csv",index = False)

In []: