In [123]:
```python
#improt libraries
import numpy as np
import pandas as pd
from pandas import read_csv
from pandas import Series, DataFrame
import glob
import os
import matplotlib.pyplot as plt
```

```
In [114]:  #let Copy of Accidents_2015.csv be DataFrame1
           DataFrame1 = pd.read_csv('Copy of Accidents_2015.csv')
           DataFrame1
```

Out[114]:

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
0	201501BS70001	525130.0	180050.0	-0.198465	51.505538
1	201501BS70002	526530.0	178560.0	-0.178838	51.491836
2	201501BS70004	524610.0	181080.0	-0.205590	51.514910
3	201501BS70005	524420.0	181080.0	-0.208327	51.514952
4	201501BS70008	524630.0	179040.0	-0.206022	51.496572
5	201501BS70009	525480.0	179530.0	-0.193610	51.500788
6	201501BS70010	526890.0	178940.0	-0.173519	51.495171
7	201501BS70011	527590.0	178660.0	-0.163542	51.492497
8	201501BS70012	524170.0	180930.0	-0.211980	51.513659
9	201501BS70013	525010.0	181200.0	-0.199786	51.515900
10	201501BS70014	523850.0	181450.0	-0.216407	51.518402
11	201501BS70015	526110.0	179650.0	-0.184495	51.501726
12	201501BS70016	526970.0	178510.0	-0.172522	51.491289
13	201501BS70017	525350.0	178640.0	-0.195797	51.492818
14	201501BS70018	527370.0	178170.0	-0.166886	51.488143
15	201501BS70019	527370.0	178180.0	-0.166882	51.488233
16	201501BS70020	524020.0	181050.0	-0.214099	51.514770
17	201501BS70022	526200.0	177720.0	-0.183889	51.484361
18	201501BS70023	524450.0	181560.0	-0.207725	51.519259
19	201501BS70024	526940.0	178480.0	-0.172964	51.491026
20	201501BS70026	527600.0	179480.0	-0.163102	51.499864
21	201501BS70027	525560.0	178170.0	-0.192941	51.488548
22	201501BS70029	525510.0	178130.0	-0.193675	51.488199
23	201501BS70030	523910.0	181390.0	-0.215564	51.517850
24	201501BS70033	526090.0	177600.0	-0.185515	51.483307
25	201501BS70034	527560.0	179160.0	-0.163793	51.496997
26	201501BS70035	527950.0	178890.0	-0.158276	51.494483
27	201501BS70036	525390.0	180190.0	-0.194671	51.506739
28	201501BS70037	527350.0	177640.0	-0.167365	51.483385
29	201501BS70038	527340.0	178160.0	-0.167321	51.488060
...	...	...	...	...	...
140026	2.01598E+12	338953.0	576296.0	-2.957692	55.077345
140027	2.01598E+12	317327.0	566149.0	-3.293388	54.983052
140028	2.01598E+12	318128.0	575574.0	-3.283579	55.067857
140029	2.01598E+12	320333.0	567053.0	-3.246680	54.991664

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
140030	2.01598E+12	319848.0	566515.0	-3.254108	54.986752
140031	2.01598E+12	338620.0	595149.0	-2.966998	55.246691
140032	2.01598E+12	327982.0	570650.0	-3.128065	55.025147
140033	2.01598E+12	318980.0	575210.0	-3.270137	55.064727
140034	2.01598E+12	309715.0	598908.0	-3.422724	55.276010
140035	2.01598E+12	330766.0	567430.0	-3.083745	54.996613
140036	2.01598E+12	312312.0	605860.0	-3.384031	55.338930
140037	2.01598E+12	310460.0	604532.0	-3.412795	55.326666
140038	2.01598E+12	328774.0	567001.0	-3.114769	54.992477
140039	2.01598E+12	320174.0	566497.0	-3.249009	54.986643
140040	2.01598E+12	325193.0	568986.0	-3.171246	55.009785
140041	2.01598E+12	315619.0	578498.0	-3.323723	55.093705
140042	2.01598E+12	319506.0	566586.0	-3.259471	54.987335
140043	2.01598E+12	308738.0	579979.0	-3.431983	55.105789
140044	2.01598E+12	314076.0	578925.0	-3.348023	55.097276
140045	2.01598E+12	310142.0	596869.0	-3.415353	55.257772
140046	2.01598E+12	338928.0	576364.0	-2.958098	55.077953
140047	2.01598E+12	324728.0	566339.0	-3.177818	54.985933
140048	2.01598E+12	327369.0	566993.0	-3.136722	54.992202
140049	2.01598E+12	319301.0	566593.0	-3.262676	54.987365
140050	2.01598E+12	304440.0	580166.0	-3.499388	55.106659
140051	2.01598E+12	312087.0	570791.0	-3.376671	55.023855
140052	2.01598E+12	320671.0	569791.0	-3.242159	55.016316
140053	2.01598E+12	311731.0	586343.0	-3.387067	55.163502
140054	2.01598E+12	328273.0	570137.0	-3.123385	55.020580
140055	2.01598E+12	314050.0	579638.0	-3.348646	55.103676

140056 rows × 32 columns

In [99]:   *#Lets see the columns in DataFrame1*
            DataFrame1.columns

Out[99]:   Index(['Accident_Index', 'Location_Easting_OSGR', 'Location_Northing_OSGR',
                    'Longitude', 'Latitude', 'Police_Force', 'Accident_Severity',
                    'Number_of_Vehicles', 'Number_of_Casualties', 'Date', 'Day_of_Week',
                    'Time', 'Local_Authority_(District)', 'Local_Authority_(Highway)',
                    '1st_Road_Class', '1st_Road_Number', 'Road_Type', 'Speed_limit',
                    'Junction_Detail', 'Junction_Control', '2nd_Road_Class',
                    '2nd_Road_Number', 'Pedestrian_Crossing-Human_Control',
                    'Pedestrian_Crossing-Physical_Facilities', 'Light_Conditions',
                    'Weather_Conditions', 'Road_Surface_Conditions',
                    'Special_Conditions_at_Site', 'Carriageway_Hazards',
                    'Urban_or_Rural_Area', 'Did_Police_Officer_Attend_Scene_of_Accident',
                    'LSOA_of_Accident_Location'],
                   dtype='object')

```
In [116]: #Let Copy of dftRoadSafety_Accidents_2016.csv be DataFrame2
          DataFrame2 = pd.read_csv('Copy of dftRoadSafety_Accidents_2016.csv')
          DataFrame2
```

Out[116]:

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
0	2.01601E+12	519310.0	188730.0	-0.279323	51.584754
1	2.01601E+12	551920.0	174560.0	0.184928	51.449595
2	2.01601E+12	505930.0	183850.0	-0.473837	51.543563
3	2.01601E+12	527770.0	168930.0	-0.164442	51.404958
4	2.01601E+12	510740.0	177230.0	-0.406580	51.483139
5	2.01601E+12	530840.0	167100.0	-0.121004	51.387813
6	2.01601E+12	527610.0	181430.0	-0.162234	51.517333
7	2.01601E+12	523830.0	189460.0	-0.213859	51.590341
8	2.01601E+12	524640.0	180620.0	-0.205302	51.510716
9	2.01601E+12	540670.0	174700.0	0.023193	51.453758
10	2.01601E+12	528300.0	188290.0	-0.149795	51.578827
11	2.01601E+12	524180.0	196480.0	-0.206323	51.653353
12	2.01601E+12	535890.0	181160.0	-0.043075	51.512977
13	2.01601E+12	536290.0	166630.0	-0.042906	51.382307
14	2.01601E+12	549000.0	182770.0	0.146399	51.524140
15	2.01601E+12	523320.0	184260.0	-0.223040	51.543719
16	2.01601E+12	527310.0	179690.0	-0.167183	51.501763
17	2.01601E+12	517500.0	170460.0	-0.311517	51.420929
18	2.01601E+12	516350.0	175710.0	-0.326324	51.468352
19	2.01601E+12	513930.0	176600.0	-0.360863	51.476843
20	2.01601E+12	550290.0	185060.0	0.165957	51.544375
21	2.01601E+12	531980.0	194470.0	-0.094392	51.633514
22	2.01601E+12	512760.0	172110.0	-0.379133	51.436721
23	2.01601E+12	525750.0	179560.0	-0.189693	51.500944
24	2.01601E+12	532660.0	192580.0	-0.085288	51.616370
25	2.01601E+12	528390.0	177880.0	-0.152289	51.485252
26	2.01601E+12	533900.0	190630.0	-0.068132	51.598553
27	2.01601E+12	543780.0	178950.0	0.069651	51.491167
28	2.01601E+12	547100.0	188420.0	0.121392	51.575406
29	2.01601E+12	542830.0	172020.0	0.053180	51.429135
...	...	...	...	...	...
136591	2.01698E+12	325196.0	568988.0	-3.171220	55.009829
136592	2.01698E+12	310395.0	594798.0	-3.410739	55.239245
136593	2.01698E+12	312069.0	584734.0	-3.381289	55.149137
136594	2.01698E+12	313586.0	581932.0	-3.356638	55.124232

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
136595	2.01698E+12	330581.0	568977.0	-3.087031	55.010511
136596	2.01698E+12	306388.0	608723.0	-3.478379	55.363587
136597	2.01698E+12	304668.0	614153.0	-3.507358	55.412032
136598	2.01698E+12	314312.0	579768.0	-3.344604	55.104917
136599	2.01698E+12	310199.0	592684.0	-3.413147	55.220218
136600	2.01698E+12	308336.0	591860.0	-3.442154	55.212474
136601	2.01698E+12	336951.0	583863.0	-2.990741	55.145109
136602	2.01698E+12	314541.0	579214.0	-3.340849	55.099980
136603	2.01698E+12	326222.0	566975.0	-3.154661	54.991897
136604	2.01698E+12	330592.0	568900.0	-3.086841	55.009821
136605	2.01698E+12	307199.0	595390.0	-3.461179	55.243971
136606	2.01698E+12	307267.0	582399.0	-3.455848	55.127284
136607	2.01698E+12	318703.0	566883.0	-3.272124	54.989898
136608	2.01698E+12	305933.0	611172.0	-3.486379	55.385499
136609	2.01698E+12	317395.0	566381.0	-3.292416	54.985173
136610	2.01698E+12	306142.0	605658.0	-3.481230	55.336008
136611	2.01698E+12	321471.0	567402.0	-3.229017	54.995005
136612	2.01698E+12	319298.0	566583.0	-3.262743	54.987300
136613	2.01698E+12	303721.0	611256.0	-3.521310	55.385824
136614	2.01698E+12	321470.0	567406.0	-3.229033	54.995041
136615	2.01698E+12	326226.0	566974.0	-3.154598	54.991888
136616	2.01698E+12	319273.0	574564.0	-3.265390	55.058998
136617	2.01698E+12	316143.0	568615.0	-3.312631	55.005033
136618	2.01698E+12	322903.0	573365.0	-3.208249	55.048803
136619	2.01698E+12	318673.0	566850.0	-3.272584	54.989597
136620	2.01698E+12	308165.0	602737.0	-3.448392	55.310151

136621 rows × 32 columns

```
In [117]:  #Lets see the columns in dataset2
           DataFrame2.columns
```

```
Out[117]:  Index(['Accident_Index', 'Location_Easting_OSGR', 'Location_Northing_OSGR',
                  'Longitude', 'Latitude', 'Police_Force', 'Accident_Severity',
                  'Number_of_Vehicles', 'Number_of_Casualties', 'Date', 'Day_of_Week',
                  'Time', 'Local_Authority_(District)', 'Local_Authority_(Highway)',
                  '1st_Road_Class', '1st_Road_Number', 'Road_Type', 'Speed_limit',
                  'Junction_Detail', 'Junction_Control', '2nd_Road_Class',
                  '2nd_Road_Number', 'Pedestrian_Crossing-Human_Control',
                  'Pedestrian_Crossing-Physical_Facilities', 'Light_Conditions',
                  'Weather_Conditions', 'Road_Surface_Conditions',
                  'Special_Conditions_at_Site', 'Carriageway_Hazards',
                  'Urban_or_Rural_Area', 'Did_Police_Officer_Attend_Scene_of_Accident',
                  'LSOA_of_Accident_Location'],
                 dtype='object')
```

Concatinating datasets

```
In [49]:  #DataFrame3 = DataFrame1.append(DataFrame2)
```

In [119]:
```python
#let the new merged dataframe be Dataframe3
pd.concat([DataFrame1,DataFrame2], axis=1)
```

Out[119]:

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
0	201501BS70001	525130.0	180050.0	-0.198465	51.505538
1	201501BS70002	526530.0	178560.0	-0.178838	51.491836
2	201501BS70004	524610.0	181080.0	-0.205590	51.514910
3	201501BS70005	524420.0	181080.0	-0.208327	51.514952
4	201501BS70008	524630.0	179040.0	-0.206022	51.496572
5	201501BS70009	525480.0	179530.0	-0.193610	51.500788
6	201501BS70010	526890.0	178940.0	-0.173519	51.495171
7	201501BS70011	527590.0	178660.0	-0.163542	51.492497
8	201501BS70012	524170.0	180930.0	-0.211980	51.513659
9	201501BS70013	525010.0	181200.0	-0.199786	51.515900
10	201501BS70014	523850.0	181450.0	-0.216407	51.518402
11	201501BS70015	526110.0	179650.0	-0.184495	51.501726
12	201501BS70016	526970.0	178510.0	-0.172522	51.491289
13	201501BS70017	525350.0	178640.0	-0.195797	51.492818
14	201501BS70018	527370.0	178170.0	-0.166886	51.488143
15	201501BS70019	527370.0	178180.0	-0.166882	51.488233
16	201501BS70020	524020.0	181050.0	-0.214099	51.514770
17	201501BS70022	526200.0	177720.0	-0.183889	51.484361
18	201501BS70023	524450.0	181560.0	-0.207725	51.519259
19	201501BS70024	526940.0	178480.0	-0.172964	51.491026
20	201501BS70026	527600.0	179480.0	-0.163102	51.499864
21	201501BS70027	525560.0	178170.0	-0.192941	51.488548
22	201501BS70029	525510.0	178130.0	-0.193675	51.488199
23	201501BS70030	523910.0	181390.0	-0.215564	51.517850
24	201501BS70033	526090.0	177600.0	-0.185515	51.483307
25	201501BS70034	527560.0	179160.0	-0.163793	51.496997
26	201501BS70035	527950.0	178890.0	-0.158276	51.494483
27	201501BS70036	525390.0	180190.0	-0.194671	51.506739
28	201501BS70037	527350.0	177640.0	-0.167365	51.483385
29	201501BS70038	527340.0	178160.0	-0.167321	51.488060
...	...	...	...	...	...
140026	2.01598E+12	338953.0	576296.0	-2.957692	55.077345
140027	2.01598E+12	317327.0	566149.0	-3.293388	54.983052
140028	2.01598E+12	318128.0	575574.0	-3.283579	55.067857
140029	2.01598E+12	320333.0	567053.0	-3.246680	54.991664

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
140030	2.01598E+12	319848.0	566515.0	-3.254108	54.986752
140031	2.01598E+12	338620.0	595149.0	-2.966998	55.246691
140032	2.01598E+12	327982.0	570650.0	-3.128065	55.025147
140033	2.01598E+12	318980.0	575210.0	-3.270137	55.064727
140034	2.01598E+12	309715.0	598908.0	-3.422724	55.276010
140035	2.01598E+12	330766.0	567430.0	-3.083745	54.996613
140036	2.01598E+12	312312.0	605860.0	-3.384031	55.338930
140037	2.01598E+12	310460.0	604532.0	-3.412795	55.326666
140038	2.01598E+12	328774.0	567001.0	-3.114769	54.992477
140039	2.01598E+12	320174.0	566497.0	-3.249009	54.986643
140040	2.01598E+12	325193.0	568986.0	-3.171246	55.009785
140041	2.01598E+12	315619.0	578498.0	-3.323723	55.093705
140042	2.01598E+12	319506.0	566586.0	-3.259471	54.987335
140043	2.01598E+12	308738.0	579979.0	-3.431983	55.105789
140044	2.01598E+12	314076.0	578925.0	-3.348023	55.097276
140045	2.01598E+12	310142.0	596869.0	-3.415353	55.257772
140046	2.01598E+12	338928.0	576364.0	-2.958098	55.077953
140047	2.01598E+12	324728.0	566339.0	-3.177818	54.985933
140048	2.01598E+12	327369.0	566993.0	-3.136722	54.992202
140049	2.01598E+12	319301.0	566593.0	-3.262676	54.987365
140050	2.01598E+12	304440.0	580166.0	-3.499388	55.106659
140051	2.01598E+12	312087.0	570791.0	-3.376671	55.023855
140052	2.01598E+12	320671.0	569791.0	-3.242159	55.016316
140053	2.01598E+12	311731.0	586343.0	-3.387067	55.163502
140054	2.01598E+12	328273.0	570137.0	-3.123385	55.020580
140055	2.01598E+12	314050.0	579638.0	-3.348646	55.103676

140056 rows × 64 columns

In [104]:
```python
pd.concat([DataFrame1,DataFrame2], axis=1)
```

Out[104]:

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
0	201501BS70001	525130.0	180050.0	-0.198465	51.505538
1	201501BS70002	526530.0	178560.0	-0.178838	51.491836
2	201501BS70004	524610.0	181080.0	-0.205590	51.514910
3	201501BS70005	524420.0	181080.0	-0.208327	51.514952
4	201501BS70008	524630.0	179040.0	-0.206022	51.496572
5	201501BS70009	525480.0	179530.0	-0.193610	51.500788
6	201501BS70010	526890.0	178940.0	-0.173519	51.495171
7	201501BS70011	527590.0	178660.0	-0.163542	51.492497
8	201501BS70012	524170.0	180930.0	-0.211980	51.513659
9	201501BS70013	525010.0	181200.0	-0.199786	51.515900
10	201501BS70014	523850.0	181450.0	-0.216407	51.518402
11	201501BS70015	526110.0	179650.0	-0.184495	51.501726
12	201501BS70016	526970.0	178510.0	-0.172522	51.491289
13	201501BS70017	525350.0	178640.0	-0.195797	51.492818
14	201501BS70018	527370.0	178170.0	-0.166886	51.488143
15	201501BS70019	527370.0	178180.0	-0.166882	51.488233
16	201501BS70020	524020.0	181050.0	-0.214099	51.514770
17	201501BS70022	526200.0	177720.0	-0.183889	51.484361
18	201501BS70023	524450.0	181560.0	-0.207725	51.519259
19	201501BS70024	526940.0	178480.0	-0.172964	51.491026
20	201501BS70026	527600.0	179480.0	-0.163102	51.499864
21	201501BS70027	525560.0	178170.0	-0.192941	51.488548
22	201501BS70029	525510.0	178130.0	-0.193675	51.488199
23	201501BS70030	523910.0	181390.0	-0.215564	51.517850
24	201501BS70033	526090.0	177600.0	-0.185515	51.483307
25	201501BS70034	527560.0	179160.0	-0.163793	51.496997
26	201501BS70035	527950.0	178890.0	-0.158276	51.494483
27	201501BS70036	525390.0	180190.0	-0.194671	51.506739
28	201501BS70037	527350.0	177640.0	-0.167365	51.483385
29	201501BS70038	527340.0	178160.0	-0.167321	51.488060
...	...	...	...	...	...
140026	2.01598E+12	338953.0	576296.0	-2.957692	55.077345
140027	2.01598E+12	317327.0	566149.0	-3.293388	54.983052
140028	2.01598E+12	318128.0	575574.0	-3.283579	55.067857
140029	2.01598E+12	320333.0	567053.0	-3.246680	54.991664

	Accident_Index	Location_Easting_OSGR	Location_Northing_OSGR	Longitude	Latitude
140030	2.01598E+12	319848.0	566515.0	-3.254108	54.986752
140031	2.01598E+12	338620.0	595149.0	-2.966998	55.246691
140032	2.01598E+12	327982.0	570650.0	-3.128065	55.025147
140033	2.01598E+12	318980.0	575210.0	-3.270137	55.064727
140034	2.01598E+12	309715.0	598908.0	-3.422724	55.276010
140035	2.01598E+12	330766.0	567430.0	-3.083745	54.996613
140036	2.01598E+12	312312.0	605860.0	-3.384031	55.338930
140037	2.01598E+12	310460.0	604532.0	-3.412795	55.326666
140038	2.01598E+12	328774.0	567001.0	-3.114769	54.992477
140039	2.01598E+12	320174.0	566497.0	-3.249009	54.986643
140040	2.01598E+12	325193.0	568986.0	-3.171246	55.009785
140041	2.01598E+12	315619.0	578498.0	-3.323723	55.093705
140042	2.01598E+12	319506.0	566586.0	-3.259471	54.987335
140043	2.01598E+12	308738.0	579979.0	-3.431983	55.105789
140044	2.01598E+12	314076.0	578925.0	-3.348023	55.097276
140045	2.01598E+12	310142.0	596869.0	-3.415353	55.257772
140046	2.01598E+12	338928.0	576364.0	-2.958098	55.077953
140047	2.01598E+12	324728.0	566339.0	-3.177818	54.985933
140048	2.01598E+12	327369.0	566993.0	-3.136722	54.992202
140049	2.01598E+12	319301.0	566593.0	-3.262676	54.987365
140050	2.01598E+12	304440.0	580166.0	-3.499388	55.106659
140051	2.01598E+12	312087.0	570791.0	-3.376671	55.023855
140052	2.01598E+12	320671.0	569791.0	-3.242159	55.016316
140053	2.01598E+12	311731.0	586343.0	-3.387067	55.163502
140054	2.01598E+12	328273.0	570137.0	-3.123385	55.020580
140055	2.01598E+12	314050.0	579638.0	-3.348646	55.103676

140056 rows × 64 columns

Transforming Data

```
In [59]:  #lets sort data in asscending Order
          #df_sorted = df_sort_values(ascending = [false])
          #df.sort_values([])
          #df_sorted
```

```
In [106]: #Lets see the columns in the concatenated dataset
          #DataFrame3.columns
```

```
Out[106]: Index(['Accident_Index', 'Location_Easting_OSGR', 'Location_Northing_OSGR',
                 'Longitude', 'Latitude', 'Police_Force', 'Accident_Severity',
                 'Number_of_Vehicles', 'Number_of_Casualties', 'Date', 'Day_of_Week',
                 'Time', 'Local_Authority_(District)', 'Local_Authority_(Highway)',
                 '1st_Road_Class', '1st_Road_Number', 'Road_Type', 'Speed_limit',
                 'Junction_Detail', 'Junction_Control', '2nd_Road_Class',
                 '2nd_Road_Number', 'Pedestrian_Crossing-Human_Control',
                 'Pedestrian_Crossing-Physical_Facilities', 'Light_Conditions',
                 'Weather_Conditions', 'Road_Surface_Conditions',
                 'Special_Conditions_at_Site', 'Carriageway_Hazards',
                 'Urban_or_Rural_Area', 'Did_Police_Officer_Attend_Scene_of_Accident',
                 'LSOA_of_Accident_Location', 'Accident_Index', 'Location_Easting_OSG
          R',
                 'Location_Northing_OSGR', 'Longitude', 'Latitude', 'Police_Force',
                 'Accident_Severity', 'Number_of_Vehicles', 'Number_of_Casualties',
                 'Date', 'Day_of_Week', 'Time', 'Local_Authority_(District)',
                 'Local_Authority_(Highway)', '1st_Road_Class', '1st_Road_Number',
                 'Road_Type', 'Speed_limit', 'Junction_Detail', 'Junction_Control',
                 '2nd_Road_Class', '2nd_Road_Number',
                 'Pedestrian_Crossing-Human_Control',
                 'Pedestrian_Crossing-Physical_Facilities', 'Light_Conditions',
                 'Weather_Conditions', 'Road_Surface_Conditions',
                 'Special_Conditions_at_Site', 'Carriageway_Hazards',
                 'Urban_or_Rural_Area', 'Did_Police_Officer_Attend_Scene_of_Accident',
                 'LSOA_of_Accident_Location'],
                dtype='object')
```

In [98]: `DataFrame3.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 140056 entries, 0 to 140055
Data columns (total 64 columns):
Accident_Index                                 140056 non-null object
Location_Easting_OSGR                          140029 non-null float64
Location_Northing_OSGR                         140029 non-null float64
Longitude                                      140029 non-null float64
Latitude                                       140029 non-null float64
Police_Force                                   140056 non-null int64
Accident_Severity                              140056 non-null int64
Number_of_Vehicles                             140056 non-null int64
Number_of_Casualties                           140056 non-null int64
Date                                           140056 non-null object
Day_of_Week                                    140056 non-null int64
Time                                           140038 non-null object
Local_Authority_(District)                     140056 non-null int64
Local_Authority_(Highway)                      140056 non-null object
1st_Road_Class                                 140056 non-null int64
1st_Road_Number                                140056 non-null int64
Road_Type                                      140056 non-null int64
Speed_limit                                    140056 non-null int64
Junction_Detail                                140056 non-null int64
Junction_Control                               140056 non-null int64
2nd_Road_Class                                 140056 non-null int64
2nd_Road_Number                                140056 non-null int64
Pedestrian_Crossing-Human_Control              140056 non-null int64
Pedestrian_Crossing-Physical_Facilities        140056 non-null int64
Light_Conditions                               140056 non-null int64
Weather_Conditions                             140056 non-null int64
Road_Surface_Conditions                        140056 non-null int64
Special_Conditions_at_Site                     140056 non-null int64
Carriageway_Hazards                            140056 non-null int64
Urban_or_Rural_Area                            140056 non-null int64
Did_Police_Officer_Attend_Scene_of_Accident    140056 non-null int64
LSOA_of_Accident_Location                      131159 non-null object
Accident_Index                                 136621 non-null object
Location_Easting_OSGR                          136614 non-null float64
Location_Northing_OSGR                         136614 non-null float64
Longitude                                      136614 non-null float64
Latitude                                       136614 non-null float64
Police_Force                                   136621 non-null float64
Accident_Severity                              136621 non-null float64
Number_of_Vehicles                             136621 non-null float64
Number_of_Casualties                           136621 non-null float64
Date                                           136621 non-null object
Day_of_Week                                    136621 non-null float64
Time                                           136619 non-null object
Local_Authority_(District)                     136621 non-null float64
Local_Authority_(Highway)                      136621 non-null object
1st_Road_Class                                 136621 non-null float64
1st_Road_Number                                136621 non-null float64
Road_Type                                      136621 non-null float64
Speed_limit                                    136584 non-null float64
Junction_Detail                                136621 non-null float64
Junction_Control                               136621 non-null float64
2nd_Road_Class                                 136621 non-null float64
2nd_Road_Number                                136621 non-null float64
```

```
    Pedestrian_Crossing-Human_Control              136621 non-null float64
    Pedestrian_Crossing-Physical_Facilities        136621 non-null float64
    Light_Conditions                               136621 non-null float64
    Weather_Conditions                             136621 non-null float64
    Road_Surface_Conditions                        136621 non-null float64
    Special_Conditions_at_Site                     136621 non-null float64
    Carriageway_Hazards                            136621 non-null float64
    Urban_or_Rural_Area                            136621 non-null float64
    Did_Police_Officer_Attend_Scene_of_Accident    136621 non-null float64
    LSOA_of_Accident_Location                      128270 non-null object
    dtypes: float64(31), int64(23), object(10)
    memory usage: 68.4+ MB
```

In [105]:
```python
#DataFrame3.head(10)
```

In [85]:
```python
#DataFrame3.isnull().any()
```

In [128]:
```python
#DataFrame3.to_csv('Accident_data.csv')
#filename = 'Accident_data2.csv'
#DataFrame.to_csv('Accident_Data3.csv')
#pd.concat.to_csv('Clean_data.csv')
all_data = pd.DataFrame()
```

In [131]:
```python
#f = r'path/*.csv
combined_csv = pd.concat([ pd.read_csv(f) for f in filenames ])

combined_csv.to_csv('Accident_Data5.csv', index=False, header=True)
```

```
C:\Users\nakibedaAdmin\Anaconda3\lib\site-packages\IPython\core\interactivesh
ell.py:3214: DtypeWarning: Columns (0) have mixed types. Specify dtype option
on import or set low_memory=False.
  if (yield from self.run_code(code, result)):
C:\Users\nakibedaAdmin\Anaconda3\lib\site-packages\IPython\core\interactivesh
ell.py:3214: DtypeWarning: Columns (31) have mixed types. Specify dtype optio
n on import or set low_memory=False.
  if (yield from self.run_code(code, result)):
```

In [ ]:

In [ ]: