```
In [1]:   #importing libraries
          import pandas as pd
          import numpy as np
          import os
          import matplotlib.pyplot as plt
          import seaborn as sns
          import scipy
```

```
In [2]:   #defining path
          path = r'C:\Users\msyeu\Hate Crime Analysis'
```

```
In [3]:   #executing path
          path
```

Out[3]:   'C:\\Users\\msyeu\\Hate Crime Analysis'

```
In [4]:   #import hate crime data using os
          df_hatecrime = pd.read_csv(os.path.join(path, 'Data', 'Original Data', 'hate_crime.
```

```
In [5]:   df_hatecrime.head()
```

Out[5]:

	INCIDENT_ID	DATA_YEAR	ORI	PUB_AGENCY_NAME	PUB_AGENCY_UNIT	AGENC
0	3015	1991	AR0040200	Rogers	NaN	
1	3016	1991	AR0290100	Hope	NaN	
2	43	1991	AR0350100	Pine Bluff	NaN	
3	44	1991	AR0350100	Pine Bluff	NaN	
4	3017	1991	AR0350100	Pine Bluff	NaN	

5 rows × 28 columns

◄ ▬▬▬▬▬▬▬▬▬▬ ►

```
In [7]:   df_hatecrime.dtypes
```

```
Out[7]:  INCIDENT_ID               int64
         DATA_YEAR                 int64
         ORI                       object
         PUB_AGENCY_NAME           object
         PUB_AGENCY_UNIT           object
         AGENCY_TYPE_NAME          object
         STATE_ABBR                object
         STATE_NAME                object
         DIVISION_NAME             object
         REGION_NAME               object
         POPULATION_GROUP_CODE     object
         POPULATION_GROUP_DESC     object
         INCIDENT_DATE             object
         ADULT_VICTIM_COUNT        float64
         JUVENILE_VICTIM_COUNT     float64
         TOTAL_OFFENDER_COUNT      int64
         ADULT_OFFENDER_COUNT      float64
         JUVENILE_OFFENDER_COUNT   float64
         OFFENDER_RACE             object
         OFFENDER_ETHNICITY        object
         VICTIM_COUNT              int64
         OFFENSE_NAME              object
         TOTAL_INDIVIDUAL_VICTIMS  float64
         LOCATION_NAME             object
         BIAS_DESC                 object
         VICTIM_TYPES              object
         MULTIPLE_OFFENSE          object
         MULTIPLE_BIAS             object
         dtype: object
```

In [8]:
```python
df_hatecrime['INCIDENT_ID']=df_hatecrime['INCIDENT_ID'].astype('str')
```

In [9]:
```python
#checking shape
df_hatecrime.shape
```

Out[9]: (201403, 28)

In [10]:
```python
#checking info
df_hatecrime.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 201403 entries, 0 to 201402
Data columns (total 28 columns):
 #   Column                   Non-Null Count   Dtype
---  ------                   --------------   -----
 0   INCIDENT_ID              201403 non-null  object
 1   DATA_YEAR                201403 non-null  int64
 2   ORI                      201403 non-null  object
 3   PUB_AGENCY_NAME          201403 non-null  object
 4   PUB_AGENCY_UNIT          5594 non-null    object
 5   AGENCY_TYPE_NAME         201403 non-null  object
 6   STATE_ABBR               201403 non-null  object
 7   STATE_NAME               201403 non-null  object
 8   DIVISION_NAME            201403 non-null  object
 9   REGION_NAME              201403 non-null  object
 10  POPULATION_GROUP_CODE    201403 non-null  object
 11  POPULATION_GROUP_DESC    201403 non-null  object
 12  INCIDENT_DATE            201403 non-null  object
 13  ADULT_VICTIM_COUNT       35973 non-null   float64
 14  JUVENILE_VICTIM_COUNT    35496 non-null   float64
 15  TOTAL_OFFENDER_COUNT     201403 non-null  int64
 16  ADULT_OFFENDER_COUNT     33952 non-null   float64
 17  JUVENILE_OFFENDER_COUNT  33945 non-null   float64
 18  OFFENDER_RACE            201384 non-null  object
 19  OFFENDER_ETHNICITY       18150 non-null   object
 20  VICTIM_COUNT             201403 non-null  int64
 21  OFFENSE_NAME             201403 non-null  object
 22  TOTAL_INDIVIDUAL_VICTIMS 199797 non-null  float64
 23  LOCATION_NAME            201403 non-null  object
 24  BIAS_DESC                201403 non-null  object
 25  VICTIM_TYPES             201403 non-null  object
 26  MULTIPLE_OFFENSE         201403 non-null  object
 27  MULTIPLE_BIAS            201403 non-null  object
dtypes: float64(5), int64(3), object(20)
memory usage: 43.0+ MB
```

In [11]: `df_hatecrime.describe()`

Out[11]:

	DATA_YEAR	ADULT_VICTIM_COUNT	JUVENILE_VICTIM_COUNT	TOTAL_OFFENDER_
count	201403.000000	35973.000000	35496.000000	201403
mean	2004.200906	0.504656	0.064683	0
std	7.804374	0.972267	0.396970	1
min	1991.000000	0.000000	0.000000	0
25%	1998.000000	0.000000	0.000000	0
50%	2004.000000	0.000000	0.000000	1
75%	2011.000000	1.000000	0.000000	1
max	2018.000000	80.000000	40.000000	99

```
In [12]:  #checking for missing values
          df_hatecrime.isnull().sum()

Out[12]:  INCIDENT_ID                      0
          DATA_YEAR                        0
          ORI                              0
          PUB_AGENCY_NAME                  0
          PUB_AGENCY_UNIT             195809
          AGENCY_TYPE_NAME                 0
          STATE_ABBR                       0
          STATE_NAME                       0
          DIVISION_NAME                    0
          REGION_NAME                      0
          POPULATION_GROUP_CODE            0
          POPULATION_GROUP_DESC            0
          INCIDENT_DATE                    0
          ADULT_VICTIM_COUNT          165430
          JUVENILE_VICTIM_COUNT       165907
          TOTAL_OFFENDER_COUNT             0
          ADULT_OFFENDER_COUNT        167451
          JUVENILE_OFFENDER_COUNT     167458
          OFFENDER_RACE                   19
          OFFENDER_ETHNICITY          183253
          VICTIM_COUNT                     0
          OFFENSE_NAME                     0
          TOTAL_INDIVIDUAL_VICTIMS      1606
          LOCATION_NAME                    0
          BIAS_DESC                        0
          VICTIM_TYPES                     0
          MULTIPLE_OFFENSE                 0
          MULTIPLE_BIAS                    0
          dtype: int64

In [13]:  df_hatecrime.dropna(subset=['TOTAL_INDIVIDUAL_VICTIMS'], inplace = True)

In [15]:  #dropping columns that are irrelevant or have more than 95% missing values.
          df_hatecrime.drop(columns=['PUB_AGENCY_UNIT', 'OFFENDER_ETHNICITY', 'ADULT_VICTIM_C
```

Out[15]:

	INCIDENT_ID	DATA_YEAR	ORI	PUB_AGENCY_NAME	AGENCY_TYPE_NAME
0	3015	1991	AR0040200	Rogers	City
1	3016	1991	AR0290100	Hope	City
2	43	1991	AR0350100	Pine Bluff	City
3	44	1991	AR0350100	Pine Bluff	City
4	3017	1991	AR0350100	Pine Bluff	City
...	...	...	...	...	...
201398	466130	2018	WV0540100	Parkersburg	City
201399	466159	2018	WV0540100	Parkersburg	City
201400	508677	2018	WV0540200	Vienna	City
201401	463503	2018	WVWSP2400	State Police:	State Police
201402	544359	2018	WVWSP3300	State Police:	State Police

199797 rows × 22 columns

In [16]: ```python
df_dups = df_hatecrime[df_hatecrime.duplicated()]
```

In [17]: ```python
df_dups
```

Out[17]:

	INCIDENT_ID	DATA_YEAR	ORI	PUB_AGENCY_NAME	PUB_AGENCY_UNIT	AGENCY_TYPE_

0 rows × 28 columns

In [20]: ```python
# checking for mixed data types
for col in df_hatecrime.columns.tolist():
    weird = (df_hatecrime[[col]].applymap(type) != df_hatecrime[[col]].iloc[0].apply(
    if len (df_hatecrime[weird]) > 0:
        print (col)
```

```
C:\Users\msyeu\AppData\Local\Temp\ipykernel_31284\626878591.py:3: FutureWarning: Dat
aFrame.applymap has been deprecated. Use DataFrame.map instead.
  weird = (df_hatecrime[[col]].applymap(type) != df_hatecrime[[col]].iloc[0].apply(t
ype)).any(axis = 1)
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```
PUB_AGENCY_UNIT

```
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OFFENDER_RACE
OFFENDER_ETHNICITY
```

```
C:\Users\msyeu\AppData\Local\Temp\ipykernel_31284\626878591.py:3: FutureWarning: Dat
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  weird = (df_hatecrime[[col]].applymap(type) != df_hatecrime[[col]].iloc[0].apply(t
ype)).any(axis = 1)
```

In [21]:
```python
df_hatecrime['OFFENDER_RACE'] = df_hatecrime['OFFENDER_RACE'].astype('str')
```

In [22]:
```python
# checking for mixed data types
for col in df_hatecrime.columns.tolist():
  weird = (df_hatecrime[[col]].applymap(type) != df_hatecrime[[col]].iloc[0].apply(
  if len (df_hatecrime[weird]) > 0:
    print (col)
```

```
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PUB_AGENCY_UNIT
```

```
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OFFENDER_ETHNICITY
```
```
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  weird = (df_hatecrime[[col]].applymap(type) != df_hatecrime[[col]].iloc[0].apply(t
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  weird = (df_hatecrime[[col]].applymap(type) != df_hatecrime[[col]].iloc[0].apply(t
ype)).any(axis = 1)
```

In [23]: `df_hatecrime.to_csv(os.path.join(path, 'Data', 'Prepared Data', 'hate_crime_wrangle`

In [ ]: