

```
In [7]: # Import library
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
plt.rcParams['figure.figsize']= (20,8)
import seaborn as sns

In [8]: # Importing dataset
df = pd.read_csv('Suicides812.csv')

In [9]: df

Out[9]:
   State  Year  Type_code  Type  Gender  Age_group  Total
0  A & N Islands  2001  Causes  Illness (Aids/STD)  Female  0-14  0
1  A & N Islands  2001  Causes  Bankruptcy or Sudden change in Economic  Female  0-14  0
2  A & N Islands  2001  Causes  Cancellation/Non-Settlement of Marriage  Female  0-14  0
3  A & N Islands  2001  Causes  Physical Abuse (Rape/Incest Etc.)  Female  0-14  0
4  A & N Islands  2001  Causes  Dowry Dispute  Female  0-14  0
...  ...  ...  ...  ...  ...  ...
237514  West Bengal  2012  Social_Status  Separated  Male  0-100+  149
237515  West Bengal  2012  Social_Status  Widowed/Widower  Male  0-100+  233
237516  West Bengal  2012  Social_Status  Married  Male  0-100+  5451
237517  West Bengal  2012  Social_Status  Divorce  Male  0-100+  189
237518  West Bengal  2012  Social_Status  Never Married  Male  0-100+  2658

237519 rows x 7 columns

In [10]: df.shape
Out[10]: (237519, 7)

In [11]: df.isnull().sum()
Out[11]:
State      0
Year       0
Type_code  0
Year       0
Gender     0
Age_group  0
Total      0
dtype: int64

In [12]: df.info()
Out[12]:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 237519 entries, 0 to 237518
Data columns (total 7 columns):
#   Column  Non-Null Count  Dtype
---  --
0   State   237519 non-null      object
1   Year    237519 non-null      int64
2   Type_code 237519 non-null      object
3   Type    237519 non-null      object
4   Gender  237519 non-null      object
5   Age_group 237519 non-null      object
6   Total   237519 non-null      int64
dtypes: int64(2), object(5)
memory usage: 12.7+ MB

In [13]: df.describe()
Out[13]:
      Year      Total
count 237519.000000  237519.000000
mean    2006.800448    55.034477
std      3.452240     792.749038
min       2001.000000    0.000000
25%     2004.000000    0.000000
50%     2007.000000    0.000000
75%     2010.000000    6.000000
max     2012.000000   63343.000000

In [14]: df.columns
Out[14]: Index(['State', 'Year', 'Type_code', 'Type', 'Gender', 'Age_group', 'Total'], dtype='object')

In [15]: df['Type'].unique()
Out[15]: array(['Illness (Aids/STD)', 'Bankruptcy or Sudden change in Economic',
       'Cancellation/Non-settlement of Marriage',
       'Physical Abuse (Rape/Incest Etc.)', 'Dowry Dispute',
       'Family Problems', 'Ideological Causes/Hero Worshipping',
       'Other Prolonged Illness', 'Property Dispute',
       'Fall in Social Reputation', 'Illegitimate Pregnancy',
       'Failure in Examination', 'Insanity/Mental Illness',
       'Love Affairs', 'Professional/Grievous Problem', 'Divorce',
       'Drug Abuse/Addiction', 'Not having Children(Barrenness/Impotency)',
       'Causes Not known', 'Unemployment',
       'Other Causes (Please Specify)', 'Poverty', 'Death of Dear Person',
       'Cancer', 'Suspected/Illicit Relation', 'Paralysis', 'Diploma',
       'Public Education (Post Graduate and Above)', 'Widow', 'Graduate',
       'Mr. Secondary/Intermediate/Pre-University', 'Primary',
       'Matriculate/Secondary', 'By Consuming Insecticides', 'By Hanging',
       'By Jumping from (Other sites)', 'By touching electric wires',
       'By Machine', 'By Fire/Self Immolation',
       'By Jumping off moving vehicles/trains',
       'By Other means (please specify)', 'By Self Infliction of injury',
       'By Over Alcoholism', 'By Consuming Other Poison',
       'By coming under running vehicles/trains',
       'By overdose of sleeping pills', 'By Jumping from (Building)',
       'By drowning', 'By Fire-Arms', 'Retired Person', 'Unemployed',
       'Public Sector Undertaking', 'Service (Private)', 'House Wife',
       'Self-employed (Business Activity)', 'Professional Activity',
       'Student', 'Others (Please Specify)',
       'Farming/Agriculture Activity', 'Service (Government)', 'Married',
       'Separated', 'Widowed/Widower', 'Divorce', 'Never Married',
       'Bankruptcy or Sudden change in Economic Status',
       'Not having Children (Barrenness/Impotency)', 'By other means'],
      dtype=object)

In [16]: df.columns
Out[16]: Index(['State', 'Year', 'Type_code', 'Type', 'Gender', 'Age_group', 'Total'], dtype='object')

In [17]: df.groupby('Year')['Total'].sum().to_frame()
Out[17]:
      Year
2001  976464
2002  995648
2003  997622
2004  1023137
2005  1025201
2006  1062391
2007  1165667
2008  1120082
2009  1144033
2010  1211322
2011  1219499
2012  1188968
Name: Total, dtype: int64

In [18]: # Suicides per year
sns.barplot(x=suicidesperyear.index, y=suicidesperyear)
plt.title('Suicides per year')
plt.xlabel('Year')
plt.ylabel('Total')
plt.show()

In [19]: # Suicides due to unemployment
unemp = df[df['Type']=='Unemployment'].groupby('Year')['Total'].sum().sort_values(ascending=False)
plt.title('Suicides due to unemployment')
plt.xlabel('Year')
plt.ylabel('Total')
plt.show()

In [20]: # Suicide causes
causes = df.groupby('Type')['Total'].sum().sort_values(ascending=False)
causes.sum()
Out[20]: 1387134

In [21]: sns.barplot(x=causes.index[:5], y=causes[:5])
Out[21]:
<Axes: xlabel='Type', ylabel='Total'>

In [22]: # Gender
df['Gender'].value_counts()
Out[22]:
Gender
Male    118079
Female  118648
Name: count, dtype: int64

In [23]: df['Gender'].value_counts()
Out[23]:
<bound method IndexOpsMixin.value_counts of 0      Female
1      Female
2      Female
3      Female
4      Female
237514  Male
237515  Male
237516  Male
237517  Male
237518  Male
Name: Gender, Length: 237519, dtype: object>

In [24]: plt.pie(df['Gender'].value_counts(), labels=['Males', 'Females'], autopct='%1.0f%%')
Out[24]:
<matplotlib.patches.Wedge at 8x1c281937800>,
<matplotlib.patches.Wedge at 8x1c281a0b5000>,
Text(0.001738668802421718, -1.099998625925269, 'Males'),
Text(0.801738668802421718, -1.099998625925269, 'Females'),
Text(-0.00048263752859489, 0.59999825904652, 'M'),
Text(0.00048263752859489, 0.59999825904652, 'F')>

In [25]: # Age group most likely to suicides
sns.barplot(x=age.index, y=age)
plt.title('Age group most likely suicide')
plt.xlabel('Age_group')
plt.ylabel('Total')
plt.show()

In [26]: # Married
df[df['Type']=='Married']['Gender'].value_counts()
Out[26]:
Gender
Female    456
Male      456
Name: count, dtype: int64

In [27]: df.head()
Out[27]:
   State  Year  Type_code  Type  Gender  Age_group  Total
0  A & N Islands  2001  Causes  Illness (Aids/STD)  Female  0-14  0
1  A & N Islands  2001  Causes  Bankruptcy or Sudden change in Economic  Female  0-14  0
2  A & N Islands  2001  Causes  Cancellation/Non-Settlement of Marriage  Female  0-14  0
3  A & N Islands  2001  Causes  Physical Abuse (Rape/Incest Etc.)  Female  0-14  0
4  A & N Islands  2001  Causes  Dowry Dispute  Female  0-14  0

In [28]: # States having highest counts top 5
state = df.groupby('State')['Total'].sum().sort_values(ascending=False)
state
Out[28]:
State
Total (All India)    2911862
Total (States)      2858620
Maharashtra          901945
West Bengal          848938
Tamil Nadu           818691
Andhra Pradesh       814859
Kerala               734825
Gujarat              538946
Madhya Pradesh       451536
Bihar                42424
Tripura              40950
Puducherry           32144
Himachal Pradesh     28582
Uttarakhand          18496
Goa                  17363
Jammu & Kashmir      14821
Sikkim               9606
A & N Islands         8109
Arunachal Pradesh    6833
Meghalaya            5145
Chandigarh           5144
Mizoram              4154
Chhattisgarh         34625
Manipur              2102
Nagaland             1728
Daman & Diu          1391
Lakshadweep          50
Name: Total, dtype: int64

In [29]: sns.barplot(x=state.index[:9], y=state[:9])
Out[29]:
<Axes: xlabel='State', ylabel='Total'>

In [30]: stateDESC = df.groupby('State')['Total'].sum().sort_values(ascending=True)
stateDESC
Out[30]:
State
Lakshadweep          50
Daman & Diu          1391
Nagaland             1728
Manipur              2102
D & N Haveli         3420
Mizoram              4154
Chhattisgarh        34625
Arunachal Pradesh   6833
A & N Islands        8109
Sikkim               9606
Jammu & Kashmir     14821
Goa                  17363
Uttarakhand         18496
Himachal Pradesh    28582
Puducherry          32144
Tripura             40950
Bihar               42424
Jharkhand           43726
Total (Uts)         53836
Delhi (Ut)          84272
Haryana             147176
Assam               233932
Rajasthan           255134
Uttar Pradesh       267234
Odisha              267324
Chhattisgarh        34625
Gujarat             538946
Madhya Pradesh      451536
Kerala              538946
Karnataka            734825
Andhra Pradesh      814859
Tamil Nadu          818691
West Bengal         848938
Maharashtra         901945
Total (States)      2858620
Total (All India)   2911862
Name: Total, dtype: int64

In [31]: sns.barplot(x=stateDESC.index[:9], y=stateDESC[:9])
Out[31]:
<Axes: xlabel='State', ylabel='Total'>

In [32]: df.head()
Out[32]:
   State  Year  Type_code  Type  Gender  Age_group  Total
0  A & N Islands  2001  Causes  Illness (Aids/STD)  Female  0-14  0
1  A & N Islands  2001  Causes  Bankruptcy or Sudden change in Economic  Female  0-14  0
2  A & N Islands  2001  Causes  Cancellation/Non-Settlement of Marriage  Female  0-14  0
3  A & N Islands  2001  Causes  Physical Abuse (Rape/Incest Etc.)  Female  0-14  0
4  A & N Islands  2001  Causes  Dowry Dispute  Female  0-14  0

In [43]: df['Age_group'].unique()
Out[43]: array(['0-14', '15-29', '30-44', '45-59', '60+', '0-14+'], dtype=object)

In [44]: df.groupby('Type')['Total'].sum().sort_values(ascending=False)
Out[44]:
Type
By Hanging 176914
Other Causes (Please Specify) 155539
House Wife 125681
Family Problems 125681
Causes Not known 90839
By Consuming Insecticides 85190
Other Causes (Please Specify) 81869
Student 79838
By Fire/Self Immolation 67468
Farming/Agriculture Activity 53741
Other Prolonged Illness 52568
Unemployed 49123
By other means (please specify) 44724
Service (Private) 39512
Divorce 37282
Love Affairs 34273
Insanity/Mental Illness 28482
Failure in Examination 25592
Dowry Dispute 23213
Self-employed (Business activity) 20844
By coming under running vehicles/trains 14396
Unemployment 12320
Public Sector Undertaking 9528
Poverty 8450
Suspected/Illicit Relation 7752
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Service (Government) 6928
Bankruptcy or Sudden change in Economic 5983
Fall in Social Reputation 4127
Property Dispute 4099
By touching electric wires 4127
Death of Dear Person 3810
Professional/Carer Problem 3510
By Other means 3053
By Over Alcoholism 3050
By Hanging from (Building) 2782
By overdose of sleeping pills 2689
By Jumping from (Other sites) 2687
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By Jumping from (Building) 2782
By Fire-Arms 2533
Illness (Aids/STD) 2519
Physical Abuse (Rape/Incest Etc.) 2185
By Self Infliction of injury 2019
Illegitimate Pregnancy 1769
Divorce 1557
Paralysis 1121
Ideological causes/Hero Worshipping 956
Cancer 850
By Machine 626
Bankruptcy or Sudden change in Economic Status 486
Not having Children (Barrenness/Impotency 284
Name: Total, dtype: int64

In [45]: sns.barplot(x=age.index[:9], y=age[:9])
plt.xticks(rotation=45)
Out[45]:
<matplotlib.figure.Figure at 8x1c281937800>

In [46]: [0, 1, 2, 3, 4, 5, 6, 7, 8],
[Text(0, 0, 'Retired Person'),
 [Text(1, 0, 'Not having Children (Barrenness/Impotency)',
Text(2, 0, 'Bankruptcy or Sudden change in Economic Status'),
Text(3, 0, 'Family Problems'),
Text(4, 0, 'Causes Not known'),
Text(5, 0, 'By Consuming Other Poisons'),
Text(6, 0, 'Other Causes (Please Specify)'),
Text(7, 0, 'Divorce'),
Text(8, 0, 'Illegitimate Pregnancy')]]

In [47]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[47]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [48]: sns.barplot(x=age.index[:9], y=age[:9])
plt.xticks(rotation=45)
Out[48]:
<matplotlib.figure.Figure at 8x1c281937800>

In [49]: [0, 1, 2, 3, 4, 5, 6, 7, 8],
[Text(0, 0, 'Retired Person'),
 [Text(1, 0, 'Not having Children (Barrenness/Impotency)',
Text(2, 0, 'Bankruptcy or Sudden change in Economic Status'),
Text(3, 0, 'Family Problems'),
Text(4, 0, 'Causes Not known'),
Text(5, 0, 'By Consuming Other Poisons'),
Text(6, 0, 'Other Causes (Please Specify)'),
Text(7, 0, 'Divorce'),
Text(8, 0, 'Illegitimate Pregnancy')]]

In [50]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[50]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [51]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[51]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
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Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [52]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[52]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
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Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [53]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[53]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
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Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
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Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [54]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[54]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
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Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [55]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[55]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [56]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[56]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
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By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
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Bankruptcy or Sudden change in Economic 5983
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Drug Abuse/Addiction 7492
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By coming under running vehicles/trains 14395
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Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [57]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[57]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
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By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [58]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[58]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
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Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
Suspected/Illicit Relation 7752
Poverty 8450
Public Sector Undertaking 9528
Professional Activity 11230
By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123
Other Prolonged Illness 52488
Farming/Agriculture Activity 53741
By Fire/Self Immolation 67468
Student 79838
Other Causes (Please Specify) 81863
By Consuming Other Poison 85190
Causes Not known 90839
By Consuming Insecticides 104929
Family Problems 125681
House Wife 127084
Others (Please Specify) 155539
By Hanging 176914
Name: Total, dtype: int64

In [59]: # Most suicide cases
df[df['Age_group']=='0-14'] | (df['Age_group']=='15-29')
ygyouther.groupby('Type')['Total'].sum().sort_values(ascending=True)
y8
Out[59]:
Type
Retired Person 284
Not having Children (Barrenness/Impotency 486
Bankruptcy or Sudden change in Economic Status 626
By Machine 626
Ideological Causes/Hero Worshipping 956
Cancer 956
Paralysis 1121
Illegitimate Pregnancy 1769
By Self Infliction of Injury 2019
Physical Abuse (Rape/Incest Etc.) 2185
Illness (Aids/STD) 2519
By Fire-Arms 2533
By Jumping from (Building) 2782
Not having Children(Barrenness/Impotency 2828
By jumping off moving vehicles/trains 2791
By overdose of sleeping pills 2689
By Over Alcoholism 3050
Professional/Carer Problem 3510
Death of Dear Person 3810
By touching electric wires 4127
Property Dispute 4099
Fall in Social Reputation 4127
Bankruptcy or Sudden change in Economic 5983
Service (Government) 6928
Cancellation/Non-Settlement of Marriage 7492
Drug Abuse/Addiction 7492
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By coming under running vehicles/trains 14395
Self-employed (Business activity) 20844
Dowry Dispute 23213
Failure in Examination 25592
Insanity/Mental Illness 28482
Love Affairs 34273
By drowning 37282
Service (Private) 39512
By other means (please specify) 44724
Unemployed 49123

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