```
#Najmudin Rain
#18BCE2505
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
dataset = pd.read_csv("database.csv",low_memory=False)
dataset.head()
```

Out[14]:

|	Record ID	Incident Year	Incident Month	Incident Day	Operator ID	Operator	Aircraft	Aircraft Type	Aircraft Make	Aircraft Model	...	Fuselage Strike	Fuselage Damage	Landing Gear Strike
0	127128	1990	1	1	DAL	DELTA AIR LINES	B-757-200	A	148	26	...	0	0	0
1	129779	1990	1	1	HAL	HAWAIIAN AIR	DC-9	A	583	90	...	0	0	0
2	129780	1990	1	2	UNK	UNKNOWN	UNKNOWN	NaN	NaN	NaN	...	0	0	0
3	2258	1990	1	3	MIL	MILITARY	A-10A	A	345	NaN	...	0	0	0
4	2257	1990	1	3	MIL	MILITARY	F-16	A	561	NaN	...	0	0	0

5 rows × 66 columns

In [15]:

```
import collections
from collections import Counter
import operator
damagePerSpecies = dict(Counter(dataset['Species Name']))
#x = sorted(damagePerSpecies.items(), key=operator.itemgetter(0))
damagePerSpecies = sorted(damagePerSpecies.items(), key=lambda x: x[1], reverse=True)[0:10]
species = []
damageVal = []
for i in damagePerSpecies:
    species.append(i[0])
    damageVal.append(i[1])

import seaborn as sns
%matplotlib inline
fig=plt.figure(figsize=(20,5))
ax1=fig.add_subplot(111)
plt.xticks(rotation=90)
sns.barplot(x=species, y=damageVal,ax=ax1)
```

Out[15]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e0725624c8>
```
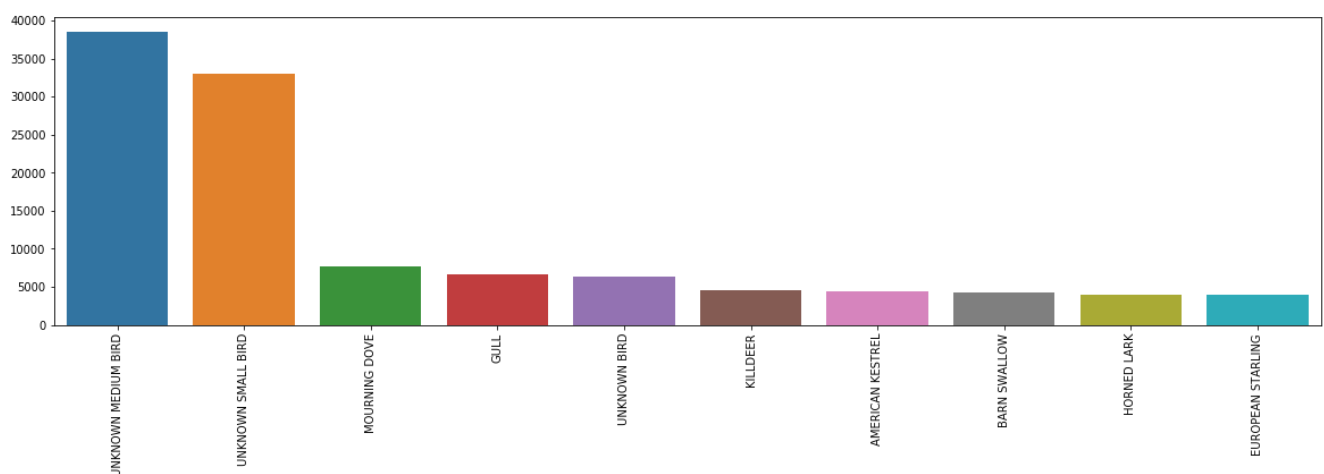
```python
damagePart = ["Aircraft Damage","Radome Damage","Windshield Damage","Nose Damage","Engine1 Damage"
,"Engine2 Damage","Engine3 Damage","Engine4 Damage","Propeller Damage","Wing or Rotor
Damage","Fuselage Damage","Landing Gear Damage","Tail Damage","Lights Damage","Other Damage"]
damageSum = []
for str in damagePart:
    x = sum(dataset[str])
    damageSum.append(x)
fig=plt.figure(figsize=(20,5))
ax2=fig.add_subplot(111)
plt.xticks(rotation=90)
sns.barplot(x=damagePart, y=damageSum,ax=ax2)
```

Out[23]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e00047fe48>
```