Questions:

Which pokemon type is the strongest?

Which pokemon type should we stay away from?

Which pokemon type has the most legendaries?

which pokemon type don't have legendaries?

The strongest legendary and non-legendary pokemon?

In [2]:
```python
# Importing the requirements
import pandas as pd
df = pd.read_csv('pokemon_data.csv')
```

In [24]:
```python
df['strength'] = df['HP'] + df['Attack'] + df['Defense'] + df['Sp. Atk'] + df['Sp. Def'
[df['strength'].max()]
```

Out[24]: [780]

In [25]:
```python
print('Strongest pokemon is: ')
df['Name'].loc[df['strength'] == 780]
```

Strongest pokemon is:

Out[25]:
```
163      MewtwoMega Mewtwo X
164      MewtwoMega Mewtwo Y
426     RayquazaMega Rayquaza
Name: Name, dtype: object
```

In [31]:
```python
print('We should stay away from these pokemons: ')
df[df['Type 2'] == 'Poison']
```

We should stay away from these pokemons:

Out[31]:

	#	Name	Type 1	Type 2	HP	Attack	Defense	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	1	Bulbasaur	Grass	Poison	45	49	49	65	65	45	1	Fals
1	2	Ivysaur	Grass	Poison	60	62	63	80	80	60	1	Fals
2	3	Venusaur	Grass	Poison	80	82	83	100	100	80	1	Fals
3	3	VenusaurMega Venusaur	Grass	Poison	80	100	123	122	120	80	1	Fals
16	13	Weedle	Bug	Poison	40	35	30	20	20	50	1	Fals
17	14	Kakuna	Bug	Poison	45	25	50	25	25	35	1	Fals
18	15	Beedrill	Bug	Poison	65	90	40	45	80	75	1	Fals
19	15	BeedrillMega Beedrill	Bug	Poison	65	150	40	15	80	145	1	Fals
48	43	Oddish	Grass	Poison	45	50	55	75	65	30	1	Fals

	#	Name	Type 1	Type 2	HP	Attack	Defense	Sp. Atk	Sp. Def	Speed	Generation	Legendary
49	44	Gloom	Grass	Poison	60	65	70	85	75	40	1	Fals
50	45	Vileplume	Grass	Poison	75	80	85	110	90	50	1	Fals
53	48	Venonat	Bug	Poison	60	55	50	40	55	45	1	Fals
54	49	Venomoth	Bug	Poison	70	65	60	90	75	90	1	Fals
75	69	Bellsprout	Grass	Poison	50	75	35	70	30	40	1	Fals
76	70	Weepinbell	Grass	Poison	65	90	50	85	45	55	1	Fals
77	71	Victreebel	Grass	Poison	80	105	65	100	70	70	1	Fals
78	72	Tentacool	Water	Poison	40	40	35	50	100	70	1	Fals
79	73	Tentacruel	Water	Poison	80	70	65	80	120	100	1	Fals
99	92	Gastly	Ghost	Poison	30	35	30	100	35	80	1	Fals
100	93	Haunter	Ghost	Poison	45	50	45	115	55	95	1	Fals
101	94	Gengar	Ghost	Poison	60	65	60	130	75	110	1	Fals
102	94	GengarMega Gengar	Ghost	Poison	60	65	80	170	95	130	1	Fals
181	167	Spinarak	Bug	Poison	40	60	40	40	40	30	2	Fals
182	168	Ariados	Bug	Poison	70	90	70	60	60	40	2	Fals
227	211	Qwilfish	Water	Poison	65	95	75	55	55	85	2	Fals
292	269	Dustox	Bug	Poison	60	50	70	50	90	65	3	Fals
344	315	Roselia	Grass	Poison	50	60	45	100	80	65	3	Fals
451	406	Budew	Grass	Poison	40	30	35	50	70	55	4	Fals
452	407	Roserade	Grass	Poison	60	70	65	125	105	90	4	Fals
603	543	Venipede	Bug	Poison	30	45	59	30	39	57	5	Fals
604	544	Whirlipede	Bug	Poison	40	55	99	40	79	47	5	Fals
605	545	Scolipede	Bug	Poison	60	100	89	55	69	112	5	Fals
651	590	Foongus	Grass	Poison	69	55	45	55	55	15	5	Fals
652	591	Amoonguss	Grass	Poison	114	85	70	85	80	30	5	Fals

In [67]:
```python
legendaries = df[df['Legendary'] == True]
repeats = legendaries['Type 1'].value_counts()
print ('The type that has largest number of legendaries is: ')
print (repeats.index.tolist()[0])
```

The type that has largest number of legendaries is:
Psychic

In [72]:
```python
nonlegendaries = df[df['Legendary'] == False]
```

```python
print ('The pokemon types that has no legendaries are: ')
print (nonlegendaries['Type 1'].tolist())
```

The pokemon types that has no legendaries are:
['Grass', 'Grass', 'Grass', 'Grass', 'Fire', 'Fire', 'Fire', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Water', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Poison', 'Poison', 'Electric', 'Electric', 'Ground', 'Ground', 'Poison', 'Poison', 'Poison', 'Poison', 'Poison', 'Poison', 'Fairy', 'Fairy', 'Fire', 'Fire', 'Normal', 'Normal', 'Poison', 'Poison', 'Grass', 'Grass', 'Grass', 'Bug', 'Bug', 'Bug', 'Bug', 'Ground', 'Ground', 'Normal', 'Normal', 'Water', 'Water', 'Fighting', 'Fighting', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Psychic', 'Psychic', 'Psychic', 'Psychic', 'Fighting', 'Fighting', 'Fighting', 'Grass', 'Grass', 'Grass', 'Water', 'Water', 'Rock', 'Rock', 'Rock', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Electric', 'Electric', 'Normal', 'Normal', 'Normal', 'Water', 'Water', 'Poison', 'Poison', 'Water', 'Water', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Rock', 'Psychic', 'Psychic', 'Water', 'Water', 'Electric', 'Electric', 'Grass', 'Grass', 'Ground', 'Ground', 'Fighting', 'Fighting', 'Normal', 'Poison', 'Poison', 'Ground', 'Ground', 'Normal', 'Grass', 'Normal', 'Normal', 'Water', 'Water', 'Water', 'Water', 'Water', 'Water', 'Psychic', 'Bug', 'Ice', 'Electric', 'Fire', 'Bug', 'Bug', 'Normal', 'Water', 'Water', 'Water', 'Water', 'Normal', 'Normal', 'Water', 'Electric', 'Fire', 'Normal', 'Rock', 'Rock', 'Rock', 'Rock', 'Rock', 'Rock', 'Rock', 'Normal', 'Dragon', 'Dragon', 'Dragon', 'Psychic', 'Grass', 'Grass', 'Grass', 'Fire', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Normal', 'Normal', 'Normal', 'Normal', 'Bug', 'Bug', 'Bug', 'Bug', 'Poison', 'Water', 'Water', 'Electric', 'Fairy', 'Normal', 'Fairy', 'Fairy', 'Psychic', 'Psychic', 'Electric', 'Electric', 'Electric', 'Electric', 'Grass', 'Water', 'Water', 'Rock', 'Water', 'Grass', 'Grass', 'Grass', 'Normal', 'Grass', 'Grass', 'Bug', 'Water', 'Water', 'Psychic', 'Dark', 'Dark', 'Water', 'Ghost', 'Psychic', 'Psychic', 'Normal', 'Bug', 'Bug', 'Normal', 'Ground', 'Steel', 'Steel', 'Fairy', 'Fairy', 'Water', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Dark', 'Normal', 'Normal', 'Fire', 'Fire', 'Ice', 'Ice', 'Water', 'Water', 'Water', 'Ice', 'Water', 'Steel', 'Dark', 'Dark', 'Dark', 'Water', 'Ground', 'Ground', 'Normal', 'Normal', 'Normal', 'Fighting', 'Fighting', 'Ice', 'Electric', 'Fire', 'Normal', 'Normal', 'Rock', 'Rock', 'Rock', 'Rock', 'Psychic', 'Grass', 'Grass', 'Grass', 'Grass', 'Fire', 'Fire', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Water', 'Dark', 'Dark', 'Normal', 'Normal', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Water', 'Water', 'Water', 'Grass', 'Grass', 'Grass', 'Normal', 'Normal', 'Water', 'Water', 'Psychic', 'Psychic', 'Psychic', 'Psychic', 'Bug', 'Bug', 'Grass', 'Grass', 'Normal', 'Normal', 'Normal', 'Bug', 'Bug', 'Bug', 'Normal', 'Normal', 'Normal', 'Fighting', 'Fighting', 'Normal', 'Rock', 'Normal', 'Normal', 'Dark', 'Dark', 'Steel', 'Steel', 'Steel', 'Steel', 'Steel', 'Steel', 'Fighting', 'Fighting', 'Fighting', 'Electric', 'Electric', 'Electric', 'Electric', 'Electric', 'Bug', 'Bug', 'Grass', 'Poison', 'Poison', 'Water', 'Water', 'Water', 'Water', 'Water', 'Fire', 'Fire', 'Fire', 'Fire', 'Psychic', 'Psychic', 'Normal', 'Ground', 'Ground', 'Ground', 'Grass', 'Grass', 'Normal', 'Dragon', 'Dragon', 'Normal', 'Poison', 'Rock', 'Rock', 'Water', 'Water', 'Water', 'Water', 'Ground', 'Ground', 'Rock', 'Rock', 'Rock', 'Rock', 'Water', 'Water', 'Normal', 'Normal', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Grass', 'Psychic', 'Dark', 'Dark', 'Psychic', 'Ice', 'Ice', 'Ice', 'Ice', 'Ice', 'Ice', 'Water', 'Water', 'Water', 'Water', 'Water', 'Dragon', 'Dragon', 'Dragon', 'Dragon', 'Steel', 'Steel', 'Steel', 'Steel', 'Grass', 'Grass', 'Grass', 'Fire', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Bug', 'Bug', 'Electric', 'Electric', 'Electric', 'Grass', 'Grass', 'Rock', 'Rock', 'Rock', 'Rock', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Electric', 'Water', 'Water', 'Grass', 'Grass', 'Water', 'Water', 'Normal', 'Ghost', 'Ghost', 'Normal', 'Normal', 'Normal', 'Ghost', 'Dark', 'Normal', 'Normal', 'Psychic', 'Poison', 'Poison', 'Steel', 'Steel', 'Rock', 'Psychic', 'Normal', 'Normal', 'Ghost', 'Dragon', 'Dragon', 'Dragon', 'Dragon', 'Normal', 'Fighting', 'Fighting', 'Fighting', 'Ground', 'Ground', 'Poison', 'Poison', 'Poison', 'Poison', 'Grass', 'Water', 'Water', 'Water', 'Grass', 'Grass', 'Grass', 'Dark', 'Electric', 'Normal', 'Ground', 'Grass', 'Electric', 'Fire', 'Fairy', 'Bug', 'Grass', 'Ice', 'Ground', 'Ice', 'Normal', 'Psychic', 'Psychic', 'Rock', 'Ghost', 'Ice', 'Electric', 'Electric', 'Electric', 'Electric', 'Electric', 'Electric', 'Psychic', 'Water', 'Water', 'Grass', 'Grass', 'Grass', 'Fire', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Normal', 'Normal', 'Normal', 'Normal', 'Normal', 'Dark', 'Dark', 'Grass', 'Grass', 'Fire', 'Fire', 'Water', 'Water', 'Psychic', 'Psychic', 'Normal', 'Normal', 'Normal', 'Electric', 'Electric', 'Rock', 'Rock', 'Rock', 'Psychic', 'Psychic', 'Ground', 'Ground', 'Normal', 'Normal', 'Fighting', 'Fighting', 'Fighting', 'Water', 'Water', 'Water', 'Fighting', 'Fighting', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Bug', 'Grass', 'Grass', 'Grass', 'Grass', 'Wate

r', 'Ground', 'Ground', 'Ground', 'Fire', 'Fire', 'Fire', 'Grass', 'Bug', 'Bug', 'Dark', 'Dark', 'Psychic', 'Ghost', 'Ghost', 'Water', 'Water', 'Rock', 'Rock', 'Poison', 'Poison', 'Dark', 'Dark', 'Normal', 'Normal', 'Psychic', 'Psychic', 'Psychic', 'Psychic', 'Psychic', 'Psychic', 'Water', 'Water', 'Ice', 'Ice', 'Ice', 'Normal', 'Normal', 'Electric', 'Bug', 'Bug', 'Grass', 'Grass', 'Water', 'Water', 'Water', 'Bug', 'Bug', 'Grass', 'Grass', 'Steel', 'Steel', 'Steel', 'Electric', 'Electric', 'Electric', 'Psychic', 'Psychic', 'Ghost', 'Ghost', 'Ghost', 'Dragon', 'Dragon', 'Dragon', 'Ice', 'Ice', 'Ice', 'Bug', 'Bug', 'Ground', 'Fighting', 'Fighting', 'Dragon', 'Ground', 'Ground', 'Dark', 'Dark', 'Normal', 'Normal', 'Normal', 'Dark', 'Dark', 'Fire', 'Bug', 'Dark', 'Dark', 'Dark', 'Bug', 'Bug', 'Water', 'Water', 'Normal', 'Normal', 'Bug', 'Grass', 'Grass', 'Grass', 'Fire', 'Fire', 'Fire', 'Water', 'Water', 'Water', 'Normal', 'Normal', 'Normal', 'Fire', 'Fire', 'Bug', 'Bug', 'Bug', 'Fire', 'Fire', 'Fairy', 'Fairy', 'Fairy', 'Grass', 'Grass', 'Fighting', 'Fighting', 'Normal', 'Psychic', 'Psychic', 'Psychic', 'Steel', 'Steel', 'Steel', 'Steel', 'Fairy', 'Fairy', 'Fairy', 'Fairy', 'Dark', 'Dark', 'Rock', 'Rock', 'Poison', 'Poison', 'Water', 'Water', 'Electric', 'Electric', 'Rock', 'Rock', 'Rock', 'Rock', 'Fairy', 'Fighting', 'Electric', 'Rock', 'Dragon', 'Dragon', 'Dragon', 'Steel', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ghost', 'Ice', 'Ice', 'Flying', 'Flying']

In [93]:
```python
print ('The Strongest lengendary pokemon is: ', legendaries['Name'].loc[legendaries['st
print ('\n')
print ('The Strongest non lengendary pokemon is: ', nonlegendaries['Name'].loc[nonlegen
```

The Strongest lengendary pokemon is: 163   MewtwoMega Mewtwo X
164   MewtwoMega Mewtwo Y
426   RayquazaMega Rayquaza
Name: Name, dtype: object

The Strongest non lengendary pokemon is: 268   TyranitarMega Tyranitar
409   SalamenceMega Salamence
413   MetagrossMega Metagross
494   GarchompMega Garchomp
Name: Name, dtype: object