

Pandas_Tutorial

July 27, 2019

1 Pandas for Data Science

This tutorial covers enough content to get started with Python Pandas library. This library contains functionalities that can be extremely useful for data analysis. Let's dive into this topic.

This tutorial is organized as follows: A sequence of tasks is presented, followed by the presentation of the code segment completes that task using the Pandas library. For data analysis, a simple dataset of Pokemon is considered that can be found using the link: <https://www.kaggle.com/abcsds/pokemon/downloads/pokemon.zip/2>.

1.1 Task 1:

Import the Pandas library, read the downloaded CSV file from the website as mentioned earlier, and then display the first ten rows of the dataset.

```
[2]: import pandas as pd
poke_data = pd.read_csv('Pokemon.csv')
poke_data.head(10)
```

```
[2]:  #           Name Type 1 Type 2 Total  HP  Attack  Defense \
0  1           Bulbasaur  Grass  Poison    318  45     49     49
1  2             Ivysaur  Grass  Poison    405  60     62     63
2  3           Venusaur  Grass  Poison    525  80     82     83
3  3  VenusaurMega Venusaur  Grass  Poison    625  80    100    123
4  4           Charmander  Fire    NaN    309  39     52     43
5  5           Charmeleon  Fire    NaN    405  58     64     58
6  6           Charizard  Fire  Flying    534  78     84     78
7  6  CharizardMega Charizard X  Fire  Dragon    634  78    130    111
8  6  CharizardMega Charizard Y  Fire  Flying    634  78    104     78
9  7           Squirtle  Water    NaN    314  44     48     65
```

	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	65	65	45	1	False
1	80	80	60	1	False
2	100	100	80	1	False
3	122	120	80	1	False
4	60	50	65	1	False
5	80	65	80	1	False
6	109	85	100	1	False

7	130	85	100	1	False
8	159	115	100	1	False
9	50	64	43	1	False

1.2 Task 2:

Display the column names separately and then count the number of columns/features/attributes in the dataset. Display the number of rows/samples in the dataset as well as show a high-level description of the dataset.

```
[81]: import numpy as np
print("The name of the columns are as follows: ")
for val in poke_data.columns.values:
    print(val)
print("The number of columns is: ", len(poke_data.columns.values))
print("The number of samples is: ", np.shape(poke_data.values)[0])
poke_data.describe()
```

The name of the columns are as follows:

#

Name

Type 1

Type 2

Total

HP

Attack

Defense

Sp. Atk

Sp. Def

Speed

Generation

Legendary

The number of columns is: 13

The number of samples is: 800

```
[81]:
```

	#	Total	HP	Attack	Defense	Sp. Atk \
count	800.000000	800.000000	800.000000	800.000000	800.000000	800.000000
mean	362.813750	435.102500	69.258750	79.001250	73.842500	72.820000
std	208.343798	119.963040	25.534669	32.457366	31.183501	32.722294
min	1.000000	180.000000	1.000000	5.000000	5.000000	10.000000
25%	184.750000	330.000000	50.000000	55.000000	50.000000	49.750000
50%	364.500000	450.000000	65.000000	75.000000	70.000000	65.000000
75%	539.250000	515.000000	80.000000	100.000000	90.000000	95.000000
max	721.000000	780.000000	255.000000	190.000000	230.000000	194.000000

	Sp. Def	Speed	Generation
count	800.000000	800.000000	800.000000
mean	71.902500	68.277500	3.323750

std	27.828916	29.060474	1.66129
min	20.000000	5.000000	1.00000
25%	50.000000	45.000000	2.00000
50%	70.000000	65.000000	3.00000
75%	90.000000	90.000000	5.00000
max	230.000000	180.000000	6.00000

1.3 Task 3

Display the last ten observations from the dataset. Only show the name of the Pokemon in the first case. In the second case, show separately the following columns: Name, Attack, and Speed.

```
[93]: print(poke_data['Name'].tail(10))
      poke_data[['Name', 'Attack', 'Speed']].tail(10)
```

```
790          Noibat
791        Noivern
792        Xerneas
793        Yveltal
794    Zygarde50% Forme
795          Diancie
796    DiancieMega Diancie
797    HoopaHoopa Confined
798    HoopaHoopa Unbound
799          Volcanion
Name: Name, dtype: object
```

```
[93]:
```

	Name	Attack	Speed
790	Noibat	30	55
791	Noivern	70	123
792	Xerneas	131	99
793	Yveltal	131	99
794	Zygarde50% Forme	100	95
795	Diancie	100	50
796	DiancieMega Diancie	160	110
797	HoopaHoopa Confined	110	70
798	HoopaHoopa Unbound	160	80
799	Volcanion	110	70

1.4 Task 4:

Display rows from 15 to 20. Show the names of the Pokemons. Show the following columns: Name, Type 1, Type 2. Show rows from hp to legendary.

```
[101]: print(poke_data.loc[15:20, 'Name'])
      print(poke_data.loc[15:20, ['Name', 'Type 1', 'Type 2']])
      print(poke_data.loc[15:20, 'HP': 'Legendary'])
```

```

15          Butterfree
16          Weedle
17          Kakuna
18          Beedrill
19  BeedrillMega Beedrill
20          Pidgey
Name: Name, dtype: object
      Name  Type 1  Type 2
15  Butterfree    Bug  Flying
16   Weedle      Bug  Poison
17   Kakuna      Bug  Poison
18   Beedrill      Bug  Poison
19  BeedrillMega Beedrill    Bug  Poison
20   Pidgey  Normal  Flying
      HP  Attack  Defense  Sp. Atk  Sp. Def  Speed  Generation  Legendary
15  60      45      50      90      80      70           1         False
16  40      35      30      20      20      50           1         False
17  45      25      50      25      25      35           1         False
18  65      90      40      45      80      75           1         False
19  65     150      40      15      80     145           1         False
20  40      45      40      35      35      56           1         False

```

1.5 Task 5:

Complete the previous task using iloc function.

```

[106]: print(poke_data.iloc[15:20, 1])
       print(poke_data.iloc[15:20, [1, 2, 3]])
       print(poke_data.iloc[15:20, 5:12])

```

```

15          Butterfree
16          Weedle
17          Kakuna
18          Beedrill
19  BeedrillMega Beedrill
Name: Name, dtype: object
      Name  Type 1  Type 2
15  Butterfree    Bug  Flying
16   Weedle      Bug  Poison
17   Kakuna      Bug  Poison
18   Beedrill      Bug  Poison
19  BeedrillMega Beedrill    Bug  Poison
      HP  Attack  Defense  Sp. Atk  Sp. Def  Speed  Generation
15  60      45      50      90      80      70           1
16  40      35      30      20      20      50           1
17  45      25      50      25      25      35           1
18  65      90      40      45      80      75           1
19  65     150      40      15      80     145           1

```

1.6 Task 6:

Create a new data frame using the first 5 attributes and the last 10 samples. Display the new data frame. Show the data frame separately after resetting the index.

```
[110]: new_poke = poke_data.iloc[-10:, 0:5]
print(new_poke)
new_poke = new_poke.reset_index()
print(new_poke)
```

	#	Name	Type 1	Type 2	Total
790	714	Noibat	Flying	Dragon	245
791	715	Noivern	Flying	Dragon	535
792	716	Xerneas	Fairy	NaN	680
793	717	Yveltal	Dark	Flying	680
794	718	Zygarde50% Forme	Dragon	Ground	600
795	719	Diancie	Rock	Fairy	600
796	719	DiancieMega Diancie	Rock	Fairy	700
797	720	HoopaHoopa Confined	Psychic	Ghost	600
798	720	HoopaHoopa Unbound	Psychic	Dark	680
799	721	Volcanion	Fire	Water	600

	index	#	Name	Type 1	Type 2	Total
0	790	714	Noibat	Flying	Dragon	245
1	791	715	Noivern	Flying	Dragon	535
2	792	716	Xerneas	Fairy	NaN	680
3	793	717	Yveltal	Dark	Flying	680
4	794	718	Zygarde50% Forme	Dragon	Ground	600
5	795	719	Diancie	Rock	Fairy	600
6	796	719	DiancieMega Diancie	Rock	Fairy	700
7	797	720	HoopaHoopa Confined	Psychic	Ghost	600
8	798	720	HoopaHoopa Unbound	Psychic	Dark	680
9	799	721	Volcanion	Fire	Water	600

1.7 Task 7:

Iterate through the samples of the dataset and display the hp and attack power of the first two dark dragon Pokemon.

```
[119]: # Method 1
count = 1
for index, row in poke_data.iterrows():
    if row['Type 1'] == "Dark" and row['Type 2'] == "Dragon" and count <= 2:
        print(index, row['Name'], row['HP'], row['Attack'], row['Type 1'],
        →row['Type 2'])
        count += 1

#Method 2
poke_data.loc[(poke_data['Type 1'] == "Dark") & (poke_data['Type 2'] ==
→"Dragon")].head(2)
```

```
694 Deino 52 65 Dark Dragon
695 Zweilous 72 85 Dark Dragon
```

```
[119]:      #      Name Type 1  Type 2  Total  HP  Attack  Defense  Sp. Atk  \
694  633      Deino   Dark  Dragon   300  52     65      50      45
695  634  Zweilous   Dark  Dragon   420  72     85      70      65

      Sp. Def  Speed  Generation  Legendary
694      50     38           5      False
695      70     58           5      False
```

1.8 Task 8:

Sort the Pokemons based on their Type 1 category in descending order. When there are conflicts, sort the values based on their Type 2 attribute in ascending order. Show only the first 20 rows.

```
[123]: poke_data.sort_values(['Type 1', 'Type 2'], ascending=[False, True]).head(20)
```

```
[123]:      #      Name Type 1  Type 2  Total  HP  Attack  Defense  \
141  130  GyaradosMega Gyarados  Water   Dark   640  95    155    109
347  318      Carvanha  Water   Dark   305  45     90     20
348  319      Sharpedo  Water   Dark   460  70    120     40
349  319  SharpedoMega Sharpedo  Water   Dark   560  70    140     70
374  342      Crawdaunt  Water   Dark   468  63    120     85
726  658      Greninja  Water   Dark   530  72     95     67
249  230      Kingdra  Water  Dragon   540  75     95     95
541  484      Palkia  Water  Dragon   680  90    120    100
184  170      Chinchou  Water  Electric  330  75     38     38
185  171      Lanturn  Water  Electric  460 125     58     58
198  183      Marill  Water   Fairy   250  70     20     50
199  184      Azumarill  Water   Fairy   420 100     50     80
67   62      Poliwrath  Water  Fighting  510  90     95     95
713  647  KeldeoOrdinary Forme  Water  Fighting  580  91     72     90
714  647  KeldeoResolute Forme  Water  Fighting  580  91     72     90
140  130      Gyarados  Water  Flying   540  95    125     79
244  226      Mantine  Water  Flying   465  65     40     70
301  278      Wingull  Water  Flying   270  40     30     30
302  279      Pelipper  Water  Flying   430  60     50    100
508  458      Mantyke  Water  Flying   345  45     20     50

      Sp. Atk  Sp. Def  Speed  Generation  Legendary
141      70     130     81           1      False
347      65      20     65           3      False
348      95      40     95           3      False
349     110      65    105           3      False
374      90      55     55           3      False
```

726	103	71	122	6	False
249	95	95	85	2	False
541	150	120	100	4	True
184	56	56	67	2	False
185	76	76	67	2	False
198	20	50	40	2	False
199	60	80	50	2	False
67	70	90	70	1	False
713	129	90	108	5	False
714	129	90	108	5	False
140	60	100	81	1	False
244	80	140	70	2	False
301	55	30	85	3	False
302	85	70	65	3	False
508	60	120	50	4	False

1.9 Task 9:

What is the HP of the Pokemon named 'Butterfree'? Is the 240th Pokemon legendary?

```
[134]: print("The HP of the Pokemon named 'Butterfree' is: ", poke_data.
        ↳loc[poke_data['Name'] == "Butterfree"]['HP'].values[0])
if poke_data.iloc[240, -1]:
    print("The 240th Pokemon is", "legendary")
else:
    print("The 240th Pokemon is", "not Legendary")
```

The HP of the Pokemon named 'Butterfree' is: 60

The 240th Pokemon is not Legendary

1.10 Task 10:

Create a new column called 'Power'. The column assigns the average attack and defense of the corresponding pokemon. Drop the newly created column and display the dataset again. Show only the first five rows.

```
[136]: poke_data['Power'] = (poke_data['Attack'] + poke_data['Defense']) / 2
print(poke_data.head(5))
poke_data = poke_data.drop(columns=['Power'])
print(poke_data.head(5))
```

#		Name	Type 1	Type 2	Total	HP	Attack	Defense	\
0	1	Bulbasaur	Grass	Poison	318	45	49	49	
1	2	Ivysaur	Grass	Poison	405	60	62	63	
2	3	Venusaur	Grass	Poison	525	80	82	83	
3	3	VenusaurMega Venusaur	Grass	Poison	625	80	100	123	
4	4	Charmander	Fire	NaN	309	39	52	43	

	Sp. Atk	Sp. Def	Speed	Generation	Legendary	Power
0	65	65	45	1	False	49.0
1	80	80	60	1	False	62.5
2	100	100	80	1	False	82.5
3	122	120	80	1	False	111.5
4	60	50	65	1	False	47.5

#	Name	Type 1	Type 2	Total	HP	Attack	Defense	\
0 1	Bulbasaur	Grass	Poison	318	45	49	49	
1 2	Ivysaur	Grass	Poison	405	60	62	63	
2 3	Venusaur	Grass	Poison	525	80	82	83	
3 3	VenusaurMega Venusaur	Grass	Poison	625	80	100	123	
4 4	Charmander	Fire	NaN	309	39	52	43	

	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	65	65	45	1	False
1	80	80	60	1	False
2	100	100	80	1	False
3	122	120	80	1	False
4	60	50	65	1	False

1.11 Task 11:

Create a new column called 'Average Power' that computes the average score of all the attributes from hp to speed. Show the names and average powers of the first 5 rows. Save the modified data into two files using two separators: comma and tab. Avoid writing the index into the newly created files. In the end, drop the column for further processing.

```
[148]: print('Method 1')
poke_data['Average Power'] = poke_data.iloc[:, [5, 6, 7, 8, 9, 10]].sum(axis=1) / 6
print(poke_data[['Name', 'Average Power']].head(5))
print('Method 2')
poke_data['Average Power'] = poke_data.iloc[:, 5:11].sum(axis=1) / 6
print(poke_data[['Name', 'Average Power']].head(5))
print('Method 3')
poke_data['Average Power'] = poke_data.loc[:, 'HP': 'Speed'].sum(axis=1) / 6
print(poke_data[['Name', 'Average Power']].head(5))

poke_data.to_csv('modified_comma', index=False)
poke_data.to_csv('modified_tab', index=False, sep='\t')
poke_data = poke_data.drop(columns=['Average Power'])
print(poke_data.head(5))
```

Method 1

	Name	Average Power
0	Bulbasaur	53.000000
1	Ivysaur	67.500000
2	Venusaur	87.500000


```

3 VenusaurMega Venusaur      104.166667
4           Charmander       51.500000

```

Method 2

```

           Name Average Power
0          Bulbasaur      53.000000
1          Ivysaur       67.500000
2          Venusaur      87.500000
3 VenusaurMega Venusaur      104.166667
4          Charmander       51.500000

```

Method 3

```

           Name Average Power
0          Bulbasaur      53.000000
1          Ivysaur       67.500000
2          Venusaur      87.500000
3 VenusaurMega Venusaur      104.166667
4          Charmander       51.500000

```

```

#           Name Type 1  Type 2  Total  HP  Attack  Defense \
0 1          Bulbasaur  Grass  Poison    318  45     49     49
1 2          Ivysaur   Grass  Poison    405  60     62     63
2 3          Venusaur  Grass  Poison    525  80     82     83
3 3 VenusaurMega Venusaur  Grass  Poison    625  80    100    123
4 4          Charmander  Fire    NaN    309  39     52     43

```

```

Sp. Atk  Sp. Def  Speed  Generation  Legendary
0      65      65    45           1      False
1      80      80    60           1      False
2     100     100    80           1      False
3     122     120    80           1      False
4      60      50    65           1      False

```

1.12 Task 12:

Display the list of the Pokemon with the following names: name containing the term 'cute', name containing the word 'cute' or 'Mega', name that starts with the letter 'S' and ends with the letter 'a', and names the substring 'ri' in the middle (can't be start or end with 'ri').

```

[181]: # Displaying only the first 5 rows and the first 5 columns
print(poke_data[poke_data['Name'].str.contains('cute')])
print(poke_data[poke_data['Name'].str.contains('cute|Mega')].head(5).iloc[:, 0:
→5])
print(poke_data[poke_data['Name'].str.contains('^S.*a+$', regex=True)].head(5).
→iloc[:, 0:5])
print(poke_data[poke_data['Name'].str.contains('.+ri[a-z].+', regex=True)].
→head(5).iloc[:, 0:5])

```

```

#           Name Type 1  Type 2  Total  HP  Attack  Defense  Sp. Atk \
110 102 Exeggcute  Grass  Psychic    325  60     40     80     60

```

	Sp.	Def	Speed	Generation	Legendary	
110		45	40	1	False	
#			Name	Type 1	Type 2	Total
3	3		VenusaurMega Venusaur	Grass	Poison	625
7	6		CharizardMega Charizard X	Fire	Dragon	634
8	6		CharizardMega Charizard Y	Fire	Flying	634
12	9		BlastoiseMega Blastoise	Water	NaN	630
19	15		BeedrillMega Beedrill	Bug	Poison	495
#			Name	Type 1	Type 2	Total
126	117		Seadra	Water	NaN	440
207	192		Sunflora	Grass	NaN	425
236	218		Slugma	Fire	NaN	250
316	292		Shedinja	Bug	Ghost	236
358	327		Spinda	Normal	NaN	360
#			Name	Type 1	Type 2	Total
6	6		Charizard	Fire	Flying	534
7	6		CharizardMega Charizard X	Fire	Dragon	634
8	6		CharizardMega Charizard Y	Fire	Flying	634
18	15		Beedrill	Bug	Poison	395
19	15		BeedrillMega Beedrill	Bug	Poison	495

1.13 Task 13:

Calculate the highest and lowest used term in 'Type 2'. Then, replace all the 'NaN' value terms found in the 'Type 2' column. Display both before and after modifications of these values.

```
[242]: # highest/maximum type 2 value
max_val = poke_data.loc[~poke_data['Type 2'].isnull()].groupby('Type 2').
    .count().sort_values('Name').index.values[-1]
# lowest/minimum type 2 value
min_val = poke_data.loc[~poke_data['Type 2'].isnull()].groupby('Type 2').
    .count().sort_values('Name').index.values[0]

modified = poke_data.copy(deep=True)
print(modified.head(10))
modified.loc[modified['Type 2'].isnull(), 'Type 2'] = max_val

print(modified.head(10))
```

	#		Name	Type 1	Type 2	Total	HP	Attack	Defense	\
0	1		Bulbasaur	Grass	Poison	318	45	49	49	
1	2		Ivysaur	Grass	Poison	405	60	62	63	
2	3		Venusaur	Grass	Poison	525	80	82	83	
3	3		VenusaurMega Venusaur	Grass	Poison	625	80	100	123	
4	4		Charmander	Fire	NaN	309	39	52	43	
5	5		Charmeleon	Fire	NaN	405	58	64	58	
6	6		Charizard	Fire	Flying	534	78	84	78	
7	6		CharizardMega Charizard X	Fire	Dragon	634	78	130	111	

8	6	CharizardMega	Charizard Y	Fire	Flying	634	78	104	78
9	7		Squirtle	Water	NaN	314	44	48	65

	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	65	65	45	1	False
1	80	80	60	1	False
2	100	100	80	1	False
3	122	120	80	1	False
4	60	50	65	1	False
5	80	65	80	1	False
6	109	85	100	1	False
7	130	85	100	1	False
8	159	115	100	1	False
9	50	64	43	1	False

#	Name	Type 1	Type 2	Total	HP	Attack	Defense	\	
0	1	Bulbasaur	Grass	Poison	318	45	49	49	
1	2	Ivysaur	Grass	Poison	405	60	62	63	
2	3	Venusaur	Grass	Poison	525	80	82	83	
3	3	VenusaurMega	Venusaur	Grass	Poison	625	80	100	123
4	4	Charmander	Fire	Flying	309	39	52	43	
5	5	Charmeleon	Fire	Flying	405	58	64	58	
6	6	Charizard	Fire	Flying	534	78	84	78	
7	6	CharizardMega	Charizard X	Fire	Dragon	634	78	130	111
8	6	CharizardMega	Charizard Y	Fire	Flying	634	78	104	78
9	7	Squirtle	Water	Flying	314	44	48	65	

	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	65	65	45	1	False
1	80	80	60	1	False
2	100	100	80	1	False
3	122	120	80	1	False
4	60	50	65	1	False
5	80	65	80	1	False
6	109	85	100	1	False
7	130	85	100	1	False
8	159	115	100	1	False
9	50	64	43	1	False

1.14 Task 14:

Find all Pokemon with Type 1 equals to 'Grass'. Increase their attack by 5% and decrease their defense by 2%. Show before and after modifications.

```
[277]: # create a completely new copy
# N.B. without the copy function, the assignment operation would create a mere
# →reference to the original data
# changing the modified data would be reflected on the original data
modi = poke_data.copy(deep=True)
```

```

print(modi.loc[modi['Type 1'] == "Grass"].head(5))
prev_attack = modi.loc[modi['Type 1'] == "Grass"]['Attack'].values
prev_def = modi.loc[modi['Type 1'] == "Grass"]['Defense'].values
modi.loc[modi['Type 1'] == "Grass", ['Attack', 'Defense']] = pd.
    ↳DataFrame({'Attack' : [x + x * 0.05 for x in prev_attack],

    ↳'Defense' : [x - x * 0.02 for x in prev_def]}, index=modi.loc[modi['Type 1']
    ↳== "Grass"].index)
print(modi.loc[modi['Type 1'] == "Grass"].head(5))

```

	#	Name	Type 1	Type 2	Total	HP	Attack	Defense	\
0	1	Bulbasaur	Grass	Poison	318	45	49	49	
1	2	Ivysaur	Grass	Poison	405	60	62	63	
2	3	Venusaur	Grass	Poison	525	80	82	83	
3	3	VenusaurMega	Venusaur	Grass	625	80	100	123	
48	43	Oddish	Grass	Poison	320	45	50	55	

	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	65	65	45	1	False
1	80	80	60	1	False
2	100	100	80	1	False
3	122	120	80	1	False
48	75	65	30	1	False

	#	Name	Type 1	Type 2	Total	HP	Attack	Defense	\
0	1	Bulbasaur	Grass	Poison	318	45	51.45	48.02	
1	2	Ivysaur	Grass	Poison	405	60	65.10	61.74	
2	3	Venusaur	Grass	Poison	525	80	86.10	81.34	
3	3	VenusaurMega	Venusaur	Grass	625	80	105.00	120.54	
48	43	Oddish	Grass	Poison	320	45	52.50	53.90	

	Sp. Atk	Sp. Def	Speed	Generation	Legendary
0	65	65	45	1	False
1	80	80	60	1	False
2	100	100	80	1	False
3	122	120	80	1	False
48	75	65	30	1	False

1.15 Task 15:

Split the dataset into 5 chunks and display it.

```

[10]: r, c = poke_data.shape
      splits = []
      for df in pd.read_csv('Pokemon.csv', chunksize=r//5):
          splits.append(df)

      for i in range(len(splits)):
          print('Chunk Number:', i + 1)

```

```
print(splits[i].iloc[:, 0:5].head(5))
```

Chunk Number: 1

	#	Name	Type 1	Type 2	Total	
0	1	Bulbasaur	Grass	Poison	318	
1	2	Ivysaur	Grass	Poison	405	
2	3	Venusaur	Grass	Poison	525	
3	3	VenusaurMega	Venusaur	Grass	Poison	625
4	4	Charmander	Fire	NaN	309	

Chunk Number: 2

	#	Name	Type 1	Type 2	Total	
160	148	Dragonair	Dragon	NaN	420	
161	149	Dragonite	Dragon	Flying	600	
162	150	Mewtwo	Psychic	NaN	680	
163	150	MewtwoMega	Mewtwo X	Psychic	Fighting	780
164	150	MewtwoMega	Mewtwo Y	Psychic	NaN	780

Chunk Number: 3

	#	Name	Type 1	Type 2	Total
320	296	Makuhita	Fighting	NaN	237
321	297	Hariyama	Fighting	NaN	474
322	298	Azurill	Normal	Fairy	190
323	299	Nosepass	Rock	NaN	375
324	300	Skitty	Normal	NaN	260

Chunk Number: 4

	#	Name	Type 1	Type 2	Total
480	432	Purugly	Normal	NaN	452
481	433	Chingling	Psychic	NaN	285
482	434	Stunky	Poison	Dark	329
483	435	Skuntank	Poison	Dark	479
484	436	Bronzor	Steel	Psychic	300

Chunk Number: 5

	#	Name	Type 1	Type 2	Total
640	579	Reuniclus	Psychic	NaN	490
641	580	Ducklett	Water	Flying	305
642	581	Swanna	Water	Flying	473
643	582	Vanillite	Ice	NaN	305
644	583	Vanillish	Ice	NaN	395

[]: