# Training Day – 30

**\*Topic:\* Pandas Groupby Operations**

- Grouped data by specific columns and applied aggregation functions.
- Example: Grouped by "Category" column and calculated sums for each group. we will use the *groupby()* function to perform various operations on grouped data.

```
df.groupby(['Type 1'])['Attack'].max().sort_values(ascending=False)
```

```
Type 1
Psychic     190
Bug         185
Dragon      180
Ground      180
Ghost       165
Rock        165
Normal      160
Fire        160
Water       155
Dark        150
Steel       150
Fighting    145
Grass       132
Fairy       131
Ice         130
Electric    123
Flying      115
Poison      106
Name: Attack, dtype: int64
```

```
df.groupby(['Type 1'])['Attack'].agg(['sum','min','max','count','mean']).sort_values(by='max',ascending=False).head(1)
```

```
df['Name'].nunique()
```

```
800
```

```
df.groupby(['Name'])['Attack'].sum()
```

```
Name
Abomasnow                  92
AbomasnowMega Abomasnow    132
Abra                       20
Absol                      130
AbsolMega Absol            150
                          ...
Zoroark                    105
Zorua                      65
Zubat                      45
Zweilous                   85
Zygarde50% Forme           100
Name: Attack, Length: 800, dtype: int64
```