

In [29]:

```
import pandas as pd
import numpy as np
import matplotlib
import re
!pip install openpyxl
```

Requirement already satisfied: openpyxl in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (3.0.7)

Requirement already satisfied: et-xmlfile in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from openpyxl) (1.1.0)

First we create the body for the dataframe:

In [30]:

[illegible]

df

Out[30]:

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Elemental | Fighting Style | Power Multiplier | F |
|-----|-----------|----------|---------------------|--------|---------|--------|---------|------------------|-------------------|---------|---------------|-----------|-------------------|---------------------|---|
| 0 | Shaun | Chanter | 2003 | Male | Human | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | Shelly | Holter | 2003 | Female | Human | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | Eren | Ishida | 2002 | Male | Human | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

63 rows × 15 columns



In [31]:

```
df
```

Out[31]:

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Elemental | Fighting Style | Power Multiplier | F |
|-----|-----------|----------|---------------------|--------|---------|--------|---------|------------------|-------------------|---------|---------------|-----------|-------------------|---------------------|---|
| 0 | Shaun | Chanter | 2003 | Male | Human | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | Shelly | Holter | 2003 | Female | Human | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | Eren | Ishida | 2002 | Male | Human | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

63 rows × 15 columns



Now let's insert more values into the table:

In [32]:

```
df.at[0, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Shaun', 'Chanter', '2003', 'Male', 'Human', 14, 14, 11, 11, 7, 'Kerubix(Polymorphic, Steel-Hard Substance)', 'None', 'Martial Arts/Supersap/Arrowbolt/Armblade/Magic Detection', 'Yes(x3, then x2 With Harmonizing)', 'Hero']
df.at[1, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Shelly', 'Holter', '2003', 'Female', 'Human', 9, 9, 13, 12, 5, 'Honoi', 'None', 'Martial Arts/Polymorphic Touchlight Porjector', 'Yes(x2 With Harmonizing)', 'Hero']
df.at[2, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Eren', 'Ishida', '2003', 'Male', 'Human', 12, 10, 12, 11, 6, 'Honoi', 'None', 'Martial Arts/Ironbolt/Plasma Sword/Spellcards', 'None', 'Rogue']
df.at[3, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Barbara', 'Azeed', '2003', 'Female', 'Human', 8, 8, 11, 11, 4, 'Honoi', 'None', 'Martial Arts/Microfilament Tape/Antigravity Boots', 'None', 'Hero']
df.at[4, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Richard', 'Tully', '2003', 'Male', 'Human', 12, 10, 10, 9, 6, 'Honoi', 'None', 'Martial Arts/Bionic Arms', 'None', 'Hero']
df.at[5, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Betty', 'Cullenfield', '2003', 'Female', 'Human', 9, 8, 12, 11, 13, 'Honoi', 'Lightning', 'Martial Arts/Electro Spear', 'None', 'Hero']
df.at[6, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Hextress/Dorothy', 'Wickswain', '2003', 'Female', 'Human', 9, 8, 15, 14, 5, 'Honoi', 'None', 'Wand/Knives/Psycstyga Spell/Energy Channelling', 'None', 'Hero']
df.at[7, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Nashandra', 'Traust', '1984', 'Female', 'Human', 18, 12, 15, 15, 7, 'Honoi', 'Earth', 'Martial Arts/Advanced Honoi Techniques/Energy Rifle/Plasma Sword/Earth Powers', 'Yes(x2 by Harmonizing)', 'Vitaros']
df.at[8, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Chunhua', 'Powell', '1983', 'Female', 'Human', 10, 9, 17, 17, 3, 'Honoi', 'None', 'Martial Arts/Psycstyga Spells/Rune Spells', 'None', 'Red Lotus']
df.at[9, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Sirence', 'Mclean', '1988', 'Female', 'Human', 16, 12, 19, 17, 6, 'Honoi', 'None', 'Martial Arts/Energy Staff', 'Yes(1.5)', 'Awoken']
df.at[10, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Oswald', 'Oyanda', '2003', 'Male', 'Human', 8, 8, 10, 10, 13, 'Honoi', 'Fire', 'Martial Arts/Vespa', 'Yes(x2)', 'Vitaros']
df.at[11, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Alexander', 'Solomon', '2003', 'Male', 'Human', 12, 10, 19, 19, 5, 'Kerubix(Black Hole)/Honoi', 'None', 'Martial Arts/Void Kerubix/Rifles/Bombs/Knives', 'None', 'Villain']
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df.at[12, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Terrasaur/Nakia', 'Bla
ck', '1890', 'Female', 'Human', 25, 22, 6, 5, 6, 'Kerubix(T-Rex Fossil and Rocks)', 'Earth', 'Martial Arts/Earth Manipulation', 'Non
e', 'Hero']
df.at[13, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['SonicFist/Wayne', 'Wik
strum', '1979', 'Male', 'Human', 30, 26, 4, 4, 7, 'Kerubix(Ultrasonic Engine)', 'None', 'Martial Arts/Sonic Waves/Jet Propulsion/',
'Yes(x2)', 'Hero']
df.at[14, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Cloud Infinity/Rache
l', 'White', '1988', 'Female', 'Human', 13, 10, 20, 20, 9, 'Kerubix(Storm Cloud)', 'Water/Wind/Lightning', 'Lightning Bolts/Tornadoe
s/Rain Clouds', 'None', 'Hero']
df.at[15, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Dr. Weird/Steven', 'St
eller', '?', 'Male', 'Human', 12, 12, 22, 22, 5, 'Honoi', 'None', 'Martial Arts/Sigl Magic/Sorcerer Staff/', 'None', 'Hero']
df.at[16, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Bae Flame/Yuhio', 'Yam
anaka', '1993', 'Female', 'Human', 13, 9, 14, 11, 7, 'Kerubix(Sulphur)', 'Fire', 'Martial Arts/Fireballs/Fire Streams', 'Yes(Uisng Mo
re Sulphur)', 'Hero']
df.at[17, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Day Dog', '?', '1976',
'Male', 'Human', 15, 24, 5, 3, 12, 'Kerubix(Golden Retreiver)', 'None', 'Martial Arts/Rfiles/Knives/Battle Axe', 'None', 'Hero']
df.at[18, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Mad Nutter/Henry', 'He
rnandez', '1990', 'Male', 'Human', 12, 12, 2, 4, 4, 'Kerubix(Alien Exploding Seed Pods)', 'None', 'Martial Arts/Exploding Seed Pods',
'None', 'Hero']
df.at[19, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Solar Sam/Samuel', 'Sm
ith', '1987', 'Male', 'Human', 12, 10, 14, 3, 5, 'Kerubix(UV Ray)', 'Light', 'Swordsman/Concentrated Uv Lightbeams/Blinding Light',
'None', 'Hero']
df.at[20, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Pulsar/Patrick', 'Sten
ner', '1987', 'Male', 'Human', 12, 12, 14, 14, 5, 'Kerubix(Alien Laser Gun)', 'None', 'Martial Arts/Laser Beams', 'None', 'Hero']
df.at[21, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Glow Girl/Stacey', '',
'1988', 'Female', 'Human', 9, 9, 13, 14, 12, 'Kerubix(Honoi)', 'None', 'Martial Arts/Advanced Honpi Techniques', 'None', 'Hero']
df.at[21, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Mr. Mansion/Olly', 'Ca
stle', '1992', 'Male', 'Human', 16, 16, 3, 3, 5, 'Kerubix(Giant Fortress)', 'None', 'Parts of Castle that fall on People/Cannons', 'N
one', 'Hero']
df.at[22, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Mudslide/Harold', 'Fin
ch', '1989', 'Male', 'Human', 12, 11, 8, 5, 10, 'Kerubix(Pool of Mud)', 'Earth', 'Mud Blasts/Hardened Mud Limb Augments', 'Yes(More M

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ud'),'Hero']
df.at[23, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Sparkman/Dre','Butle
r','1988','Male','Human',10,10,14,14,16,'Kerubix(Electrical Engine)','Lightning','Electricl Blasts/Flight/Super Speed','Y
es(x2 Electricity)','Hero']
df.at[24, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Fungum/Keisha','Krans
ton','1990','Female','Human',9,8,3,3,3,'Kerubix(Bubble Gum)','None','Sticky Gum/Gum Whip/Gum Blast','None','Hero']
df.at[25, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Waterbite/Lance','McT
rench','1990','Male','Human',17,12,2,2,4,'Kerubix(Shark DNA and Water)','Water','Shark Bite/Water Blasts/Claws','None','H
ero']
df.at[26, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Lava Lad/Brent','Tren
t','2000','Male','Human',11,12,2,4,9,'Kerubix(Earth and Fire)','Earth/Fire','Lava Blasts/Lava Augmentation','Yes(Access t
o More Lava)','Hero']
df.at[27, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Gigaman/John','McCurd
y','1982','Male','Human',45,20,40,30,7,'Honoi','None','Martial Arts/Advanced Honoi Techniques/Energy-Charged Gaunlets and
Boots/Energy Blasts','None','Rogue']
df.at[28, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Storm King/Mugal','Du
mossusa','1970','Male','Human',25,20,40,30,8,'Honoi','Wind','Martial Arts/Windd Blasts/Tornadoes/Advanced Honoi Technique
s','Yes(x2 with Strong Winds)','Rogue']
df.at[29, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Captain C/Leon','Augu
stus','1970','Male','Human',8,7,9,3,5,'Kerubix(Orange)','None','Martial Arts/Citric Acid Blast','Yes(x2 After Eating Oran
ges)','Hero']
df.at[30, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Fizzyphantom/Jason',
'Schafer','1985','Male','Human',10,9,14,3,7,'Kerubix(Grape Soda)','None','Martial Arts/Compressed Soda Blasts/Soda Propul
sion','None','Hero']
df.at[31, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Royal Ripper/Eric','B
enton','1994','Male','Human',11,11,2,4,6,'Kerubix(Chainsaw)','None','Martial Arts/Saw Blades','None','Hero']
df.at[32, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Hyperslime/Lucy','Mur
ray','1998','Female','Humans',7,8,9,9,6,'Kerubix(Indusrial Glue)','None','Martial Arts/Sticky Slime/Harrdened Slime Whip'
,'Yes(x2 Glue Manipulation)','Hero']
df.at[33, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species','Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Concreature/Vance','R
afello','1980','Male','Human',14,20,3,4,5,'Kerubix(Concrete)','Earth','Martial Arts/Concrete Slabs and Blasts/Concrete Ar
mor','None','Hero']

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df.at[34, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Nightthing/Benny', 'Ro
gerton', '1975', 'Male', 'Human', 14, 8, 14, 9, 5, 'Kerubix(Jyke)', 'None', 'Martial Arts/Honoi Absorption to a Limit/Juatar Transfo
rmation/Flight/Timed Intangibility', 'Yes(x2 by Absorbing Honoi)', 'Rogue']
df.at[35, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Morty', 'Estevez', '200
3', 'Male', 'Humans', 12, 12, 13, 14, 4, 'HEAM(Honoi Energy Absorption Machine)', 'None', 'Martial Arts/Energized Baton/Cutlass/Hon
oi Absorbing Gauntlet', 'None', 'Awoken']
df.at[36, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Mr. Magnetic/Trevor',
'Callisto', '1976', 'Male', 'Human', 12, 7, 15, 10, 4, 'Kerubix(Magnet)', 'Ferrokenesis', 'Metal Manipulation', 'None', 'Villain']
df.at[37, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Gaboon', '?', '?', 'Mal
e', 'Human', 9, 10, 2, 3, 5, 'Kerubix(Gaboon Viper)', 'None', 'Martial Arts/Snake Bite/Snake Venom', 'None', 'Villain']
df.at[38, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Cryoqueen/Linda', 'Kir
kman', '1992', 'Female', 'Human', 7, 8, 12, 9, 4, 'Kerubix(Liquid Nitrogen)', 'None', 'Martial Arts/Ice Blasts/Snow', 'Yes(x2 with Sn
ow)', 'Villain']
df.at[39, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Commander Croc/Lance',
'Liverpool', '1989', 'Male', 'Human', 17, 15, 3, 3, 4, 'Kerubix(Crocodile)', 'None', 'Martial Arts/Claws/Teeth/Armored Skin', 'None',
'Villain']
df.at[40, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Sky Captain/Kirk', 'Ur
kle', '1970', 'Male', 'Human', 24, 20, 30, 26, 4, 'Kerubix(Alien Spaceship)', 'None', 'Martial Arts/Spaceship Cannons/Laser Beam/For
cefield', 'None', 'Villain']
df.at[41, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Typhon/Craig', 'Spenc
e', '1995', 'Male', 'Human', 19, 18, 16, 17, 4, 'Kerubix(Alien Predator/Honoi)', 'None', 'Sharp Teeth and Claws/Armored Skin/Bladed-
Tail/Advanced Honoi Techniques', 'None', 'Villain']
df.at[42, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Monster Muncher/Igles
ias', 'Camacho', '1991', 'Male', 'Human', 15, 12, 2, 2, 4, 'Kerubix(Alien Voracious Insect Swarm)', 'None', 'Martial Arts/Massive Swa
rm of Carnivorous Insects/Assault Rifles/Explosives', 'None', 'Villain']
df.at[43, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['God Gordy/Gordy', 'Ran
go', '1989', 'Male', 'Human', 'Titan', 'Titan', 'Titan', 'Titan', 30, 'Kerubix(Prewalker)', 'None', 'Earth Shattering Punches and Ki
cks/Giant Proton Cannon/Giant Sword', 'None', 'Villain']
df.at[44, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Specterer/Henry', 'McC
asper', '1960', 'Male', 'Human', 11, 10, 16, 15, 5, 'Kerubix(Ectoplasm)', 'None', 'Martial Arts/Ectoplasm Blasts', 'Yes(x2 by Absorbi
ng Honoi)', 'Villain']
df.at[45, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De

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fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Sextricity/Harribel',
'Alcanzar', '1987', 'Female', 'Human', 9, 9, 17, 17, 15, 'Kerubix(Alien Electrode)', 'Lightning', 'Martial Arts/Electric Blasts/Ligh
tning Storms/Flight', 'Yes(x3 by Absorbing Lightning)', 'Villain']
df.at[46, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Ironworm/Joseph', 'Mug
abe', '1988', 'Male', 'Human', 34, 18, 1, 3, 4, 'Kerubix(Terraforming Drill)', 'None', 'Martial Arts/Massive Drill Attack/Centrifuga
l Force', 'None', 'Villain']
df.at[47, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Poseidon', '?', '?', 'Ma
le', 'Human', 30, 27, 20, 17, 4, 'Kerubix(50,000,000 Gallons of Water)', 'Water', 'Massive Blasts of Water/Flooding/Rain', 'None',
'Villain']
df.at[48, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Beyan', '?', '?', 'Femal
e', 'Human', 20, 20, 30, 29, 4, 'Honoi/Kerubix(Massive Storms)', 'Wind/Fire', 'Martial Arts/Hurricanes/Firestorms/Advanced Honoi T
echniques', 'None', 'Rogue']
df.at[49, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Playmate/Theodore', 'D
iddler', '1974', 'Male', 'Human', 14, 13, 12, 9, 4, 'Honoi/Kerubix(Captive Children)', 'None', 'Martial Arts/Honoi Blasts/Playing Kn
ife', 'None', 'Villain']
df.at[50, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Thaan/Phil', 'Jones',
'1975', 'Male', 'Human', 35, 30, 29, 29, 7, 'Kerubix(Realkan Elder)', 'None', 'Martial Arts/Adavnaced Honoi Techniques/Noiken: Melt
-Metal', 'None', 'Villain']
df.at[51, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Vizori/Herbert', 'Will
is', '1960', 'Male', 'Human', 31, 27, 36, 36, 5, 'Kerubix(Realkan Elder)', 'Earth', 'Martial Arts/Advanced Honoi Techniques/Noiken:
Gravitational Pull', 'None', 'Villain']
df.at[52, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Plando/Jerome', 'Willi
ams', '1979', 'Male', 'Human', 39, 30, 25, 25, 40, 'Kerubix(Realkan Elder)', 'None', 'Martial Arts/Advanced Honoi Techniques/Noiken:
Teleportation', 'None', 'Villain']
df.at[53, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Brajetto/Bridgette', 'D
aisy', '1980', 'Female', 'Human', 39, 36, 41, 39, 6, 'Kerubix(Old Dragon Lord)', 'Fire', 'Martial Arts/Super-heated Strikes/Fire Bla
sts/Noiken: Compaction', 'Yes(x2 Absorbing Fire)', 'Villain']
df.at[54, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Buyatan/Sheldon', 'Cha
nter', '1979', 'Male', 'Human', 42, 35, 35, 36, 7, 'Kerubix(Realkan King)', 'None', 'Martial Arts/Advanced Honoi Techniques/Noiken:
Magnetism', 'Yes(x3 by Absorbing Energy of SEMA)', 'Villain']
df.at[55, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Orisha', '?', '?', 'Mal
e', 'Human', 35, 35, 35, 9, 12, 'Honoi', 'Light', 'Martial Arts/Advanced Honoi Techniques/Sunlight Asorbtion/Light Beam', 'Yes(x2 A
bsorbing Sunlight)', 'Rogue']

```

```

df.at[56, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Fiona', 'Pratt', '2005'
, 'Female', 'Human', 'God', 'God', 'God', 'God', 5, 'Kerubix(Small Habital Planet)', 'Fire/Wind/Earth/Water/Lightning', 'Summon Mou
ntains,Oceans,Winds,Trees,Magma,Animals', 'None', 'Rogue']
df.at[57, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Adam', '?', '?', 'Male',
'Human', 30, 30, 20, 20, 8, 'Kerubix(100,000,000 grams of Honoi)', 'None', 'Martial Arts/Advanced Honoi Techniues/Honoi Absorpti
on', 'None', 'Villain']
df.at[58, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Eve', '?', '?', 'Female'
, 'Human', 20, 20, 30, 30, 6, 'Kerubix(120,000,000 grams of Honoi)', 'None', 'Martial Arts/Advanced Honoi Techniques/Honoi Absorpti
on', 'None', 'Villain']
df.at[59, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Vekwe', 'Wong', '1000',
'Female', 'Human', 36, 35, 40, 41, 13, 'Honoi/Kerubix(Psychic Dragon)', 'Fire', 'Martial Arts/Fire Blasts/Advanced Honoi Technique
s/Noikein: Portals', 'Yes(x2 by Self-Harmonizing)', 'Rogue']
df.at[60, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Mechaman/Bryan', 'Stul
lock', '1970', 'Male', 'Barkran', 30, 26, 26, 26, 7, 'Kerubix(Nanites)', '(Ferrokenensis)', 'Martial Arts/Nanites that Assimilate al
l Forms of Metal', 'Yes(x3 by Absorbing More Metal)', 'Drunnagon Empire']
df.at[61, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['Slaraun', 'Klaavak',
 '?', 'Male', 'Drunnagon', 39, 37, 8, 20, 5, 'Honoi', 'None', 'Martial Arts/Advanced Honoi Techniques/Noiken: Mimic', 'None', 'Villai
n']
df.at[62, ['FirstName', 'LastName', 'Date of Birth', 'Gender', 'Species', 'Attack', 'Defense', 'Energy Attack', 'Energy De
fense', 'Agility', 'Power Type', 'Elemental', 'Fighting Style', 'Power Multiplier', 'Faction']] = ['War Beasts', 'N/A', '?',
'N/A', 'Alien Fauna of Drunnagon Empire', 15, 15, 15, 15, 6, 'Kerubix(Dragon DNA)', 'Fire', 'Quick Reflexes/Fire Breath/Teeth Cla
ws/Sharp Tail/Regeneration Unless Head is Severed', 'None', 'Drunnnagon Empire']

```

In [33]:

```
df
```

Out[33]:

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Element |
|-----|----------------|----------|---------------|--------|---------------------------------|--------|---------|---------------|----------------|---------|--|-------------|
| 0 | Shaun | Chanter | 2003 | Male | Human | 14 | 14 | 11 | 11 | 7 | Kerubix(Polymorphic, Steel-Hard Substance) | Nr |
| 1 | Shelly | Holter | 2003 | Female | Human | 9 | 9 | 13 | 12 | 5 | Honoi | Nr |
| 2 | Eren | Ishida | 2003 | Male | Human | 12 | 10 | 12 | 11 | 6 | Honoi | Nr |
| 3 | Barbara | Azeed | 2003 | Female | Human | 8 | 8 | 11 | 11 | 4 | Honoi | Nr |
| 4 | Richard | Tully | 2003 | Male | Human | 12 | 10 | 10 | 9 | 6 | Honoi | Nr |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 58 | Eve | ? | ? | Female | Human | 20 | 20 | 30 | 30 | 6 | Kerubix(120,000,000 grams of Honoi) | Nr |
| 59 | Vekwe | Wong | 1000 | Female | Human | 36 | 35 | 40 | 41 | 13 | Honoi/Kerubix(Psychic Dragon) | I |
| 60 | Mechaman/Bryan | Stullock | 1970 | Male | Barkran | 30 | 26 | 26 | 26 | 7 | Kerubix(Nanites) | (Ferrokenen |
| 61 | Slaraun | Klaavak | ? | Male | Drunnagon | 39 | 37 | 8 | 20 | 5 | Honoi | Nr |
| 62 | War Beasts | N/A | ? | N/A | Alien Fauna of Drunnagon Empire | 15 | 15 | 15 | 15 | 6 | Kerubix(Dragon DNA) | I |

63 rows × 15 columns



Now let's save the data as a excel file

In [34]:

```
file_name = 'Superhumans.xlsx'

df.to_excel(file_name)
print('DataFrame is written to Excel File successfully.')
```

DataFrame is written to Excel File successfully.

In [35]:

```
#Select a specific item in a row. The "0" is the integer location, and the "1" is the position in the row of the integer.
df.iloc[0,1]
```

Out[35]:

'Chanter'

In [36]:

```
#Select a certain number of rows; from integer 0 to but not including 5
df.iloc[0:5]
```

Out[36]:

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Elemental | |
|---|-----------|----------|---------------------|--------|---------|--------|---------|------------------|-------------------|---------|--|-----------|--------------|
| 0 | Shaun | Chanter | 2003 | Male | Human | 14 | 14 | 11 | 11 | 7 | Kerubix(Polymorphic, Steel-Hard Substance) | None | Arts/Supers: |
| 1 | Shelly | Holter | 2003 | Female | Human | 9 | 9 | 13 | 12 | 5 | Honoi | None | Mar |
| 2 | Eren | Ishida | 2003 | Male | Human | 12 | 10 | 12 | 11 | 6 | Honoi | None | |
| 3 | Barbara | Azeed | 2003 | Female | Human | 8 | 8 | 11 | 11 | 4 | Honoi | None | Martial Arts |
| 4 | Richard | Tully | 2003 | Male | Human | 12 | 10 | 10 | 9 | 6 | Honoi | None | |

In [37]:

```
df.loc[df['Power Type'].str.contains("kerubix[a-z]*", flags=re.I, regex=True)]
df.head()
```

Out[37]:

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Elemental | |
|---|-----------|----------|---------------------|--------|---------|--------|---------|------------------|-------------------|---------|--|-----------|--------------|
| 0 | Shaun | Chanter | 2003 | Male | Human | 14 | 14 | 11 | 11 | 7 | Kerubix(Polymorphic, Steel-Hard Substance) | None | Arts/Supers: |
| 1 | Shelly | Holter | 2003 | Female | Human | 9 | 9 | 13 | 12 | 5 | Honoi | None | Mar |
| 2 | Eren | Ishida | 2003 | Male | Human | 12 | 10 | 12 | 11 | 6 | Honoi | None | |
| 3 | Barbara | Azeed | 2003 | Female | Human | 8 | 8 | 11 | 11 | 4 | Honoi | None | Martial Arts |
| 4 | Richard | Tully | 2003 | Male | Human | 12 | 10 | 10 | 9 | 6 | Honoi | None | |



Let's reduce the data set to just the Heroes and their First and Last Names:

In [38]:

```
#First we filter the dataset to just heroes
```

```
new_data = df[df['Faction'] == 'Hero']  
new_data['Faction']
```

Out[38]:

```
0      Hero  
1      Hero  
3      Hero  
4      Hero  
5      Hero  
6      Hero  
12     Hero  
13     Hero  
14     Hero  
15     Hero  
16     Hero  
17     Hero  
18     Hero  
19     Hero  
20     Hero  
21     Hero  
22     Hero  
23     Hero  
24     Hero  
25     Hero  
26     Hero  
29     Hero  
30     Hero  
31     Hero  
32     Hero  
33     Hero
```

```
Name: Faction, dtype: object
```


In [39]:

```
#Now let's print the First and Last Name in new_data  
new_data[['FirstName', 'LastName', 'Faction']]
```

Out[39]:

| | FirstName | LastName | Faction |
|----|-----------------------|-------------|---------|
| 0 | Shaun | Chanter | Hero |
| 1 | Shelly | Holter | Hero |
| 3 | Barbara | Azeed | Hero |
| 4 | Richard | Tully | Hero |
| 5 | Betty | Cullenfield | Hero |
| 6 | Hextress/Dorothy | Wickswain | Hero |
| 12 | Terrasaur/Nakia | Black | Hero |
| 13 | SonicFist/Wayne | Wikstrum | Hero |
| 14 | Cloud Infinity/Rachel | White | Hero |
| 15 | Dr. Weird/Steven | Steller | Hero |
| 16 | Bae Flame/Yuhio | Yamanaka | Hero |
| 17 | Day Dog | ? | Hero |
| 18 | Mad Nutter/Henry | Hernandez | Hero |
| 19 | Solar Sam/Samuel | Smith | Hero |
| 20 | Pulsar/Patrick | Stenner | Hero |
| 21 | Mr. Mansion/Olly | Castle | Hero |
| 22 | Mudslide/Harold | Finch | Hero |
| 23 | Sparkman/Dre | Butler | Hero |
| 24 | Fungum/Keisha | Kranston | Hero |
| 25 | Waterbite/Lance | McTrench | Hero |
| 26 | Lava Lad/Brent | Trent | Hero |
| 29 | Captain C/Leon | Augustus | Hero |
| 30 | Fizzyphantom/Jason | Schafer | Hero |
| 31 | Royal Ripper/Eric | Benton | Hero |
| 32 | Hyperslime/Lucy | Murray | Hero |

| | FirstName | LastName | Faction |
|----|-------------------|----------|---------|
| 33 | Concreature/Vance | Rafello | Hero |

Now let's group persons based on who is the physical strongest:

In [40]:

```
new_data.sort_values(['Attack'], ascending=False)
```

Out[40]:

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Element |
|----|-----------------------|-----------|---------------|--------|---------|--------|---------|---------------|----------------|---------|--|--------------|
| 13 | SonicFist/Wayne | Wikstrum | 1979 | Male | Human | 30 | 26 | 4 | 4 | 7 | Kerubix(Ultrasonic Engine) | |
| 12 | Terrasaur/Nakia | Black | 1890 | Female | Human | 25 | 22 | 6 | 5 | 6 | Kerubix(T-Rex Fossil and Rocks) | |
| 25 | Waterbite/Lance | McTrench | 1990 | Male | Human | 17 | 12 | 2 | 2 | 4 | Kerubix(Shark DNA and Water) | |
| 21 | Mr. Mansion/Olly | Castle | 1992 | Male | Human | 16 | 16 | 3 | 3 | 5 | Kerubix(Giant Fortress) | |
| 17 | Day Dog | ? | 1976 | Male | Human | 15 | 24 | 5 | 3 | 12 | Kerubix(Golden Retriever) | |
| 0 | Shaun | Chanter | 2003 | Male | Human | 14 | 14 | 11 | 11 | 7 | Kerubix(Polymorphic, Steel-Hard Substance) | |
| 33 | Concreature/Vance | Rafello | 1980 | Male | Human | 14 | 20 | 3 | 4 | 5 | Kerubix(Concrete) | |
| 14 | Cloud Infinity/Rachel | White | 1988 | Female | Human | 13 | 10 | 20 | 20 | 9 | Kerubix(Storm Cloud) | Water/Wind/L |
| 16 | Bae Flame/Yuhio | Yamanaka | 1993 | Female | Human | 13 | 9 | 14 | 11 | 7 | Kerubix(Sulphur) | |
| 22 | Mudslide/Harold | Finch | 1989 | Male | Human | 12 | 11 | 8 | 5 | 10 | Kerubix(Pool of Mud) | |
| 20 | Pulsar/Patrick | Stenner | 1987 | Male | Human | 12 | 12 | 14 | 14 | 5 | Kerubix(Alien Laser Gun) | |
| 4 | Richard | Tully | 2003 | Male | Human | 12 | 10 | 10 | 9 | 6 | Honoi | |
| 19 | Solar Sam/Samuel | Smith | 1987 | Male | Human | 12 | 10 | 14 | 3 | 5 | Kerubix(UV Ray) | |
| 18 | Mad Nutter/Henry | Hernandez | 1990 | Male | Human | 12 | 12 | 2 | 4 | 4 | Kerubix(Alien Exploding Seed Pods) | |
| 15 | Dr. Weird/Steven | Steller | ? | Male | Human | 12 | 12 | 22 | 22 | 5 | Honoi | |

| | FirstName | LastName | Date of Birth | Gender | Species | Attack | Defense | Energy Attack | Energy Defense | Agility | Power Type | Element |
|----|--------------------|-------------|---------------|--------|---------|--------|---------|---------------|----------------|---------|----------------------------|---------|
| 26 | Lava Lad/Brent | Trent | 2000 | Male | Human | 11 | 12 | 2 | 4 | 9 | Kerubix(Earth and Fire) | Earth |
| 31 | Royal Ripper/Eric | Benton | 1994 | Male | Human | 11 | 11 | 2 | 4 | 6 | Kerubix(Chainsaw) | |
| 23 | Sparkman/Dre | Butler | 1988 | Male | Human | 10 | 10 | 14 | 14 | 16 | Kerubix(Electrical Engine) | Light |
| 30 | Fizzyphantom/Jason | Schafer | 1985 | Male | Human | 10 | 9 | 14 | 3 | 7 | Kerubix(Grape Soda) | |
| 1 | Shelly | Holter | 2003 | Female | Human | 9 | 9 | 13 | 12 | 5 | Honoi | |
| 5 | Betty | Cullenfield | 2003 | Female | Human | 9 | 8 | 12 | 11 | 13 | Honoi | Light |
| 24 | Fungum/Keisha | Kranston | 1990 | Female | Human | 9 | 8 | 3 | 3 | 3 | Kerubix(Bubble Gum) | |
| 6 | Hextress/Dorothy | Wickswain | 2003 | Female | Human | 9 | 8 | 15 | 14 | 5 | Honoi | |
| 3 | Barbara | Azeed | 2003 | Female | Human | 8 | 8 | 11 | 11 | 4 | Honoi | |
| 29 | Captain C/Leon | Augustus | 1970 | Male | Human | 8 | 7 | 9 | 3 | 5 | Kerubix(Orange) | |
| 32 | Hyperslime/Lucy | Murray | 1998 | Female | Humans | 7 | 8 | 9 | 9 | 6 | Kerubix(Industrial Glue) | |



Now let's calculate the total stats of those in the new_data group

In [41]:

```
new_data['Total Stats'] = new_data['Attack'] + new_data['Defense'] + new_data['Energy Attack'] + new_data['Energy Defense'] + new_data['Agility']
```

#Now lets compare the stats and their total for each person:

```
new_data[['FirstName', 'LastName', 'Attack', 'Defense', 'Energy Attack', 'Energy Defense', 'Agility', 'Total Stats']]
```

```
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages/ipykernel_launcher.py:1: SettingWithCopyWarning:  
g:
```

A value is trying to be set on a copy of a slice from a DataFrame.

Try using `.loc[row_indexer,col_indexer] = value` instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
"""Entry point for launching an IPython kernel.
```


Out[41]:

| | FirstName | LastName | Attack | Defense | Energy Attack | Energy Defense | Agility | Total Stats |
|----|-----------------------|-------------|--------|---------|---------------|----------------|---------|-------------|
| 0 | Shaun | Chanter | 14 | 14 | 11 | 11 | 7 | 57 |
| 1 | Shelly | Holter | 9 | 9 | 13 | 12 | 5 | 48 |
| 3 | Barbara | Azeed | 8 | 8 | 11 | 11 | 4 | 42 |
| 4 | Richard | Tully | 12 | 10 | 10 | 9 | 6 | 47 |
| 5 | Betty | Cullenfield | 9 | 8 | 12 | 11 | 13 | 53 |
| 6 | Hextress/Dorothy | Wickswain | 9 | 8 | 15 | 14 | 5 | 51 |
| 12 | Terrasaur/Nakia | Black | 25 | 22 | 6 | 5 | 6 | 64 |
| 13 | SonicFist/Wayne | Wikstrum | 30 | 26 | 4 | 4 | 7 | 71 |
| 14 | Cloud Infinity/Rachel | White | 13 | 10 | 20 | 20 | 9 | 72 |
| 15 | Dr. Weird/Steven | Steller | 12 | 12 | 22 | 22 | 5 | 73 |
| 16 | Bae Flame/Yuhio | Yamanaka | 13 | 9 | 14 | 11 | 7 | 54 |
| 17 | Day Dog | ? | 15 | 24 | 5 | 3 | 12 | 59 |
| 18 | Mad Nutter/Henry | Hernandez | 12 | 12 | 2 | 4 | 4 | 34 |
| 19 | Solar Sam/Samuel | Smith | 12 | 10 | 14 | 3 | 5 | 44 |
| 20 | Pulsar/Patrick | Stenner | 12 | 12 | 14 | 14 | 5 | 57 |
| 21 | Mr. Mansion/Olly | Castle | 16 | 16 | 3 | 3 | 5 | 43 |
| 22 | Mudslide/Harold | Finch | 12 | 11 | 8 | 5 | 10 | 46 |
| 23 | Sparkman/Dre | Butler | 10 | 10 | 14 | 14 | 16 | 64 |
| 24 | Fungum/Keisha | Kranston | 9 | 8 | 3 | 3 | 3 | 26 |
| 25 | Waterbite/Lance | McTrench | 17 | 12 | 2 | 2 | 4 | 37 |
| 26 | Lava Lad/Brent | Trent | 11 | 12 | 2 | 4 | 9 | 38 |
| 29 | Captain C/Leon | Augustus | 8 | 7 | 9 | 3 | 5 | 32 |
| 30 | Fizzyphantom/Jason | Schafer | 10 | 9 | 14 | 3 | 7 | 43 |
| 31 | Royal Ripper/Eric | Benton | 11 | 11 | 2 | 4 | 6 | 34 |
| 32 | Hyperslime/Lucy | Murray | 7 | 8 | 9 | 9 | 6 | 39 |

| | FirstName | LastName | Attack | Defense | Energy Attack | Energy Defense | Agility | Total Stats |
|----|-------------------|----------|--------|---------|---------------|----------------|---------|-------------|
| 33 | Concreature/Vance | Rafello | 14 | 20 | 3 | 4 | 5 | 46 |

Now let's counts the number of different values that appear in each column of the original dataset</P>

In [45]:

```
for columns in df:  
    print(columns)  
    print(df[columns].value_counts())  
    print('')
```

#This code basically asks "for each column in the dataset, print the numbers of a specific value in each column"

```

FirstName
Shaun          1
Vekwe          1
Day Dog        1
Brajetto/Bridgette 1
Mechaman/Bryan 1
..
Gigaman/John   1
Eren           1
Mudslide/Harold 1
Nighttthing/Benny 1
Cryoqueen/Linda 1
Name: FirstName, Length: 63, dtype: int64

```

```

LastName
?          7
Chanter    2
Solomon    1
Dumossusa  1
Finch      1
Alcanzar   1
Urkle      1
Wong       1
Mugabe     1
Jones      1
Cullenfield 1
Spence     1
Oyanda     1
Stullock   1
Castle     1
Rafello    1
Rogerton   1
Kranston   1
Traust     1
Butler     1
Benton     1
Rango      1
Hernandez  1
Tully      1
Trent      1
Murray     1
McTrench   1
Williams   1

```

| | |
|-----------|---|
| Smith | 1 |
| Holter | 1 |
| Azeed | 1 |
| Wikstrum | 1 |
| Kirkman | 1 |
| McCasper | 1 |
| Daisy | 1 |
| McCurdy | 1 |
| Black | 1 |
| Klaavak | 1 |
| Powell | 1 |
| Steller | 1 |
| Augustus | 1 |
| Estevez | 1 |
| Ishida | 1 |
| Callisto | 1 |
| Stenner | 1 |
| Yamanaka | 1 |
| Camacho | 1 |
| White | 1 |
| Pratt | 1 |
| N/A | 1 |
| Willis | 1 |
| Diddler | 1 |
| Mclean | 1 |
| Wickswain | 1 |
| Schafer | 1 |
| Liverpool | 1 |

Name: LastName, dtype: int64

Date of Birth

| | |
|------|----|
| 2003 | 10 |
| ? | 9 |
| 1988 | 4 |
| 1970 | 4 |
| 1989 | 3 |
| 1979 | 3 |
| 1987 | 3 |
| 1990 | 3 |
| 1980 | 2 |
| 1960 | 2 |
| 1992 | 2 |
| 1975 | 2 |

| | |
|------|---|
| 1976 | 2 |
| 1998 | 1 |
| 1994 | 1 |
| 1000 | 1 |
| 1995 | 1 |
| 1983 | 1 |
| 1890 | 1 |
| 1984 | 1 |
| 1991 | 1 |
| 2005 | 1 |
| 1974 | 1 |
| 1982 | 1 |
| 1985 | 1 |
| 1993 | 1 |
| 2000 | 1 |

Name: Date of Birth, dtype: int64

Gender

| | |
|--------|----|
| Male | 43 |
| Female | 19 |
| N/A | 1 |

Name: Gender, dtype: int64

Species

| | |
|---------------------------------|----|
| Human | 58 |
| Humans | 2 |
| Alien Fauna of Drunnagon Empire | 1 |
| Drunnagon | 1 |
| Barkran | 1 |

Name: Species, dtype: int64

Attack

| | |
|----|----|
| 12 | 10 |
| 9 | 6 |
| 30 | 4 |
| 14 | 4 |
| 8 | 3 |
| 39 | 3 |
| 10 | 3 |
| 11 | 3 |
| 15 | 3 |
| 7 | 2 |
| 16 | 2 |

| | |
|-------|---|
| 35 | 2 |
| 25 | 2 |
| 13 | 2 |
| 20 | 2 |
| 17 | 2 |
| God | 1 |
| 18 | 1 |
| 45 | 1 |
| Titan | 1 |
| 24 | 1 |
| 31 | 1 |
| 34 | 1 |
| 36 | 1 |
| 42 | 1 |
| 19 | 1 |

Name: Attack, dtype: int64

Defense

| | |
|-------|---|
| 12 | 9 |
| 8 | 8 |
| 10 | 8 |
| 20 | 6 |
| 9 | 5 |
| 30 | 3 |
| 35 | 3 |
| 18 | 2 |
| 15 | 2 |
| 11 | 2 |
| 26 | 2 |
| 27 | 2 |
| 7 | 2 |
| 22 | 1 |
| 16 | 1 |
| God | 1 |
| 13 | 1 |
| Titan | 1 |
| 24 | 1 |
| 37 | 1 |
| 36 | 1 |
| 14 | 1 |

Name: Defense, dtype: int64

Energy Attack

| | |
|-------|---|
| 2 | 6 |
| 14 | 6 |
| 12 | 4 |
| 3 | 4 |
| 15 | 4 |
| 40 | 3 |
| 30 | 3 |
| 20 | 3 |
| 16 | 2 |
| 17 | 2 |
| 13 | 2 |
| 9 | 2 |
| 8 | 2 |
| 19 | 2 |
| 10 | 2 |
| 35 | 2 |
| 11 | 2 |
| 6 | 1 |
| 5 | 1 |
| 4 | 1 |
| God | 1 |
| 41 | 1 |
| 22 | 1 |
| Titan | 1 |
| 25 | 1 |
| 26 | 1 |
| 29 | 1 |
| 36 | 1 |
| 1 | 1 |

Name: Energy Attack, dtype: int64

Energy Defense

| | |
|----|---|
| 3 | 9 |
| 9 | 6 |
| 4 | 5 |
| 11 | 5 |
| 17 | 5 |
| 14 | 4 |
| 30 | 3 |
| 15 | 3 |
| 20 | 3 |
| 5 | 2 |
| 10 | 2 |

| | |
|-------|---|
| 2 | 2 |
| 29 | 2 |
| 36 | 2 |
| 26 | 2 |
| 19 | 1 |
| 12 | 1 |
| 22 | 1 |
| Titan | 1 |
| 39 | 1 |
| 25 | 1 |
| God | 1 |
| 41 | 1 |

Name: Energy Defense, dtype: int64

Agility

| | |
|----|----|
| 5 | 15 |
| 4 | 14 |
| 7 | 9 |
| 6 | 9 |
| 13 | 3 |
| 12 | 2 |
| 9 | 2 |
| 8 | 2 |
| 3 | 2 |
| 40 | 1 |
| 30 | 1 |
| 16 | 1 |
| 15 | 1 |
| 10 | 1 |

Name: Agility, dtype: int64

Power Type

| | |
|------------------------------------|----|
| Honoi | 15 |
| Kerubix(Realkan Elder) | 3 |
| Kerubix(Alien Exploding Seed Pods) | 1 |
| Kerubix(Nanites) | 1 |
| Kerubix(Ultrasonic Engine) | 1 |
| Kerubix(Storm Cloud) | 1 |
| Kerubix(Bubble Gum) | 1 |
| Kerubix(Shark DNA and Water) | 1 |
| Kerubix(Realkan King) | 1 |
| Kerubix(Jyke) | 1 |
| Kerubix(Terraforming Drill) | 1 |

| | |
|--|---|
| Kerubix(Electrical Engine) | 1 |
| Kerubix(100,000,000 grams of Honoi) | 1 |
| Kerubix(Industrial Glue) | 1 |
| Kerubix(Earth and Fire) | 1 |
| Honoi/Kerubix(Captive Children) | 1 |
| Kerubix(Dragon DNA) | 1 |
| Kerubix(Giant Fortress) | 1 |
| Kerubix(Magnet) | 1 |
| Kerubix(Small Habital Planet) | 1 |
| Kerubix(Polymorphic, Steel-Hard Substance) | 1 |
| Kerubix(Alien Predator/Honoi) | 1 |
| Kerubix(Alien Laser Gun) | 1 |
| Kerubix(Gaboon Viper) | 1 |
| Kerubix(Prewalker) | 1 |
| Kerubix(T-Rex Fossil and Rocks) | 1 |
| Kerubix(Ectoplasm) | 1 |
| Kerubix(Black Hole)/Honoi | 1 |
| HEAM(Honoi Energy Absorption Machine) | 1 |
| Kerubix(Sulphur) | 1 |
| Kerubix(Grape Soda) | 1 |
| Kerubix(Liquid Nitrogen) | 1 |
| Kerubix(Pool of Mud) | 1 |
| Kerubix(Orange) | 1 |
| Kerubix(Alien Voracious Insect Swarm) | 1 |
| Honoi/Kerubix(Psychic Dragon) | 1 |
| Kerubix(Concrete) | 1 |
| Kerubix(Alien Electrode) | 1 |
| Honoi/Kerubix(Massive Storms) | 1 |
| Kerubix(120,000,000 grams of Honoi) | 1 |
| Kerubix(Alien Spaceship) | 1 |
| Kerubix(Old Dragon Lord) | 1 |
| Kerubix(Crocodile) | 1 |
| Kerubix(UV Ray) | 1 |
| Kerubix(50,000,000 Gallons of Water) | 1 |
| Kerubix(Chainsaw) | 1 |
| Kerubix(Golden Retreiver) | 1 |
| Name: Power Type, dtype: int64 | |

| | |
|-----------|----|
| Elemental | |
| None | 39 |
| Fire | 5 |
| Earth | 5 |
| Lightning | 3 |

| | |
|---------------------------------|---|
| Water | 2 |
| Light | 2 |
| Earth/Fire | 1 |
| Wind/Fire | 1 |
| (Ferrokenensis) | 1 |
| Water/Wind/Lightning | 1 |
| Ferrokenesis | 1 |
| Wind | 1 |
| Fire/Wind/Earth/Water/Lightning | 1 |

Name: Elemental, dtype: int64

Fighting Style

| | |
|---|---|
| Martial Arts/Massive Drill Attack/Centrifugal Force | 1 |
| Martial Arts/Fire Blasts/Advanced Honoi Techniques/Noikein: Portals | 1 |
| Martial Arts/Advanced Honoi Techniques/Honoi Absorption | 1 |
| Martial Arts/Citric Acid Blast | 1 |
| Martial Arts/Honoi Blasts/Flaying Knife | 1 |
| .. | |
| Martial Arts/Polymorphic Touchlight Porjector | 1 |
| Martial Arts/Void Kerubix/Rifles/Bombs/Knives | 1 |
| Martial Arts/Sticky Slime/Harrdened Slime Whip | 1 |
| Martial Arts/Energy Staff | 1 |
| Martial Arts/Nanites that Assimilate all Forms of Metal | 1 |

Name: Fighting Style, Length: 63, dtype: int64

Power Multiplier

| | |
|-------------------------------------|----|
| None | 41 |
| Yes(x2) | 2 |
| Yes(x2 by Absorbing Honoi) | 2 |
| Yes(x2 by Harmonizing) | 1 |
| Yes(x3, then x2 With Harmonizing) | 1 |
| Yes(x2 Glue Manipulation) | 1 |
| Yes(x2 After Eating Oranges) | 1 |
| Yes(x2 with Snow) | 1 |
| Yes(x2 Absorbing Sunlight) | 1 |
| Yes(More Mud) | 1 |
| Yes(1.5) | 1 |
| Yes(x2 by Self-Harmonizing) | 1 |
| Yes(x2 With Harmonizing) | 1 |
| Yes(Access to More Lava) | 1 |
| Yes(x3 by Absorbing More Metal) | 1 |
| Yes(x3 by Absorbing Energy of SEMA) | 1 |
| Yes(x2 Electricity) | 1 |

| | |
|--------------------------------|---|
| Yes(Uisng More Sulphur) | 1 |
| Yes(x2 with Strong Winds) | 1 |
| Yes(x2 Absorbing Fire) | 1 |
| Yes(x3 by Absorbing Lightning) | 1 |

Name: Power Multiplier, dtype: int64

Faction

| | |
|-------------------|----|
| Hero | 26 |
| Villain | 22 |
| Rogue | 8 |
| Awoken | 2 |
| Vitaros | 2 |
| Drunnnagon Empire | 1 |
| Red Lotus | 1 |
| Drunnagon Empire | 1 |

Name: Faction, dtype: int64

FIN