₹

export pokemon data from public API into table

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requests
```

```
• pandas
```

```
1 ## loop api
2 import requests
3 import time

1 # test api
2 url = "https://pokeapi.co/api/v2/pokemon/1"
3
4 resp = requests.get(url)
5 if resp.status_code == 200:
6     print("ok")
7 else:
8     print("please check again")

    ok

1 resp.json()
```

```
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                                                                                .COM/ POREART/ SPITTES/ MASCET/ SPITTES/ POREMON/ VETSTONS/ REHERACTON-
    iii/ruby-sapphire/back/1.png',
 1 abilities = resp.json()['abilities']
 2 abilities
'url': 'https://pokeapi.co/api/v2/ability/65/'},
       'is hidden': False,
       'slot': 1},
      {'ability': {'name': 'chlorophyll',
        'url': '<a href="https://pokeapi.co/api/v2/ability/34/">https://pokeapi.co/api/v2/ability/34/">https://pokeapi.co/api/v2/ability/34/</a>
       'is_hidden': True,
       'slot': 3}]
 1 resp.json()['abilities'][0]['ability']['name']
    "nvergrow'
 1 for j in abilities:
 2 print(j)
    {'ability': {'name': 'overgrow', 'url': '<a href="https://pokeapi.co/api/v2/ability/65/">https://pokeapi.co/api/v2/ability/65/</a>'}, 'is_hidden': False, 'slot': 1}
    {'ability': {'name': 'chlorophyll', 'url': 'https://pokeapi.co/api/v2/ability/34/'}, 'is_hidden': True, 'slot': 3}
 1 # prompt: call ability name in resp.json()
 3 abilities = resp.json()['abilities']
 4 ablist = []
 5 for j in abilities:
 6 print(j['ability']['name'])
     ablist.append(j['ability']['name'])
 8 ablist
→ overgrow
    chlorophyll
    ['overgrow', 'chlorophyll']
 1 # prompt: make ablist in to str
 3 abstr = ", ".join(ablist)
 4 abstr
    overgrow.chloronhvll'
 1 resp.json()['forms'][0]['name']
    'hulhasaur'
 1 stats = resp.json()['stats']
 2 stats
→ [{'base_stat': 45,
       'effort': 0.
       'stat': {'name': 'hp', 'url': 'https://pokeapi.co/api/v2/stat/1/'}},
      { 'base_stat': 49,
       'effort': 0,
       'stat': {'name': 'attack', 'url': 'https://pokeapi.co/api/v2/stat/2/'}},
      {'base_stat': 49,
       'effort': 0,
       'stat': {'name': 'defense', 'url': 'https://pokeapi.co/api/v2/stat/3/'}},
      {'base_stat': 65,
       'effort': 1,
       'stat': {'name': 'special-attack',
  'url': 'https://pokeapi.co/api/v2/stat/4/'}},
      {'base_stat': 65,
        effort': 0,
       'stat': {'name': 'special-defense',
        'url': 'https://pokeapi.co/api/v2/stat/5/'}},
      { 'base_stat': 45,
       'effort': 0,
       'stat': {'name': 'speed', 'url': 'https://pokeapi.co/api/v2/stat/6/'}}]
 1 stats[0]['stat']['name']
```

```
<u>→</u> 'hn'
 1 stats[0]['base_stat']
<del>→</del> 45
 1 ## loop api
 2 import requests
 3 import time
 5 numbers = []
 6 names = []
 7 abilities_ = []
 8 masses = []
 9 hp_ = []
10 atk_ = []
11 def_ = []
12 spatk_ = []
13 spdef_ = []
14 spd_ = []
15 for i in range(6):
16
        url = f"https://pokeapi.co/api/v2/pokemon/{i+1}"
17
18
        response = requests.get(url)
19
        number = str(i)
20
        name = response.json()['forms'][0]['name']
21
        abilities = response.json()['abilities']
22
        ability = []
23
        for j in abilities:
24
            ability.append(j['ability']['name'])
25
        ability = ", ".join(ability)
26
        mass = response.json()['weight']
27
        masses.append(mass)
28
29
        stats = response.json()['stats']
30
        hp = stats[0]['base_stat']
31
        atk = stats[1]['base_stat']
        deff = stats[2]['base_stat']
32
33
        spatk = stats[3]['base_stat']
34
        spdef = stats[4]['base_stat']
35
36
37
38
39
        numbers.append(number)
40
        names.append(name)
41
        abilities_.append(ability)
42
43
        hp_.append(hp)
        atk_.append(atk)
44
45
        def_.append(deff)
46
        spatk_.append(spatk)
47
        spdef_.append(spdef)
48
49
        print(name)
50
        time.sleep(1)
51
52
→*
    bulbasaur
     ivysaur
     venusaur
     charmander
     charmeleon
     charizard
  1 print(numbers)
  2 print(names)
  3 print(abilities_)
   ['0', '1', '2', '3', '4', '5']
['bulbasaur', 'ivysaur', 'venusaur', 'charmander', 'charmeleon', 'charizard']
['overgrow, chlorophyll', 'overgrow, chlorophyll', 'overgrow, chlorophyll', 'blaze, solar-power', 'blaze, solar-power')
  1 import nandas as nd
```

```
τ τιιιροί ε baildas as ba
 2 df = pd.DataFrame({'id'
                                     : numbers,
                        'name'
 3
                                     : names,
 4
                        'weight'
                                     : masses,
                        'abilites' : abilities_,
                        'hp'
  6
                                     : hp_,
                                     : atk_,
  7
                        'atk'
                        'def'
 8
                                     : def_,
                        'spatk'
 9
                                     : spatk_,
                        'spdef'
 10
                                     : spdef_})
11 df
∓
        id
                                                                                    \blacksquare
                  name weight
                                          abilites hp atk def spatk spdef
     0
         0
              bulbasaur
                             69 overgrow, chlorophyll 45
                                                          49
                                                               49
                                                                       65
                                                                              65
                                                                                    ılı
         1
                            130
                                overgrow, chlorophyll 60
     1
                 ivysaur
                                                          62
                                                               63
                                                                       80
                                                                              80
                           1000 overgrow, chlorophyll
     2
         2
                                                    80
                                                          82
                                                               83
                                                                      100
                                                                             100
               venusaur
                             85
     3
         3 charmander
                                   blaze, solar-power 39
                                                          52
                                                               43
                                                                       60
                                                                              50
                            190
         4
            charmeleon
                                   blaze, solar-power 58
                                                          64
                                                               58
                                                                       80
                                                                              65
                            905
     5
         5
               charizard
                                   blaze, solar-power 78
                                                          84
                                                               78
                                                                      109
                                                                              85
```

New interactive sheet Next steps: (Generate code with df View recommended plots