

WORKOUT TOOLS PROJECT



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1. Data Extraction

- Objective: Gather data from Amazon product listings.
- Method: Utilize Python and REST APIs to extract relevant information.

2. Data Transformation

- Tools: Employ Pandas and Excel for data cleaning and processing.
- Focus: Ensure data quality and readiness for analysis.

3. Data Visualization

- Goal: Develop an advanced Power BI dashboard.
- Outcome: Visualize insights related to workout tools, enhancing decision-making.

4. Categories Analyzed

- Dumbbells
- Push-Up Bars
- Pull-Up Bars

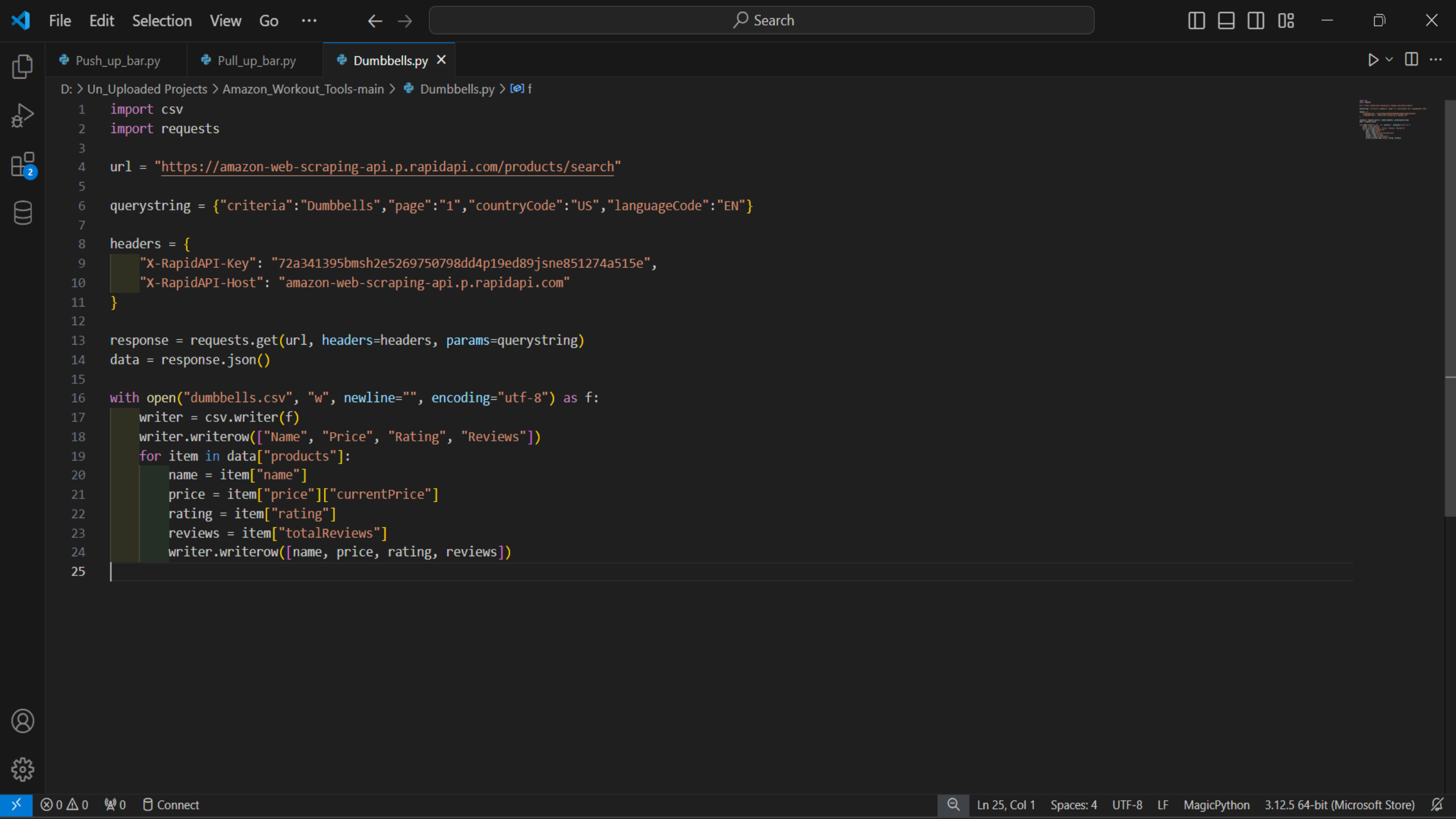




< > dumbbells + ... 

< > push_up_bar + ...





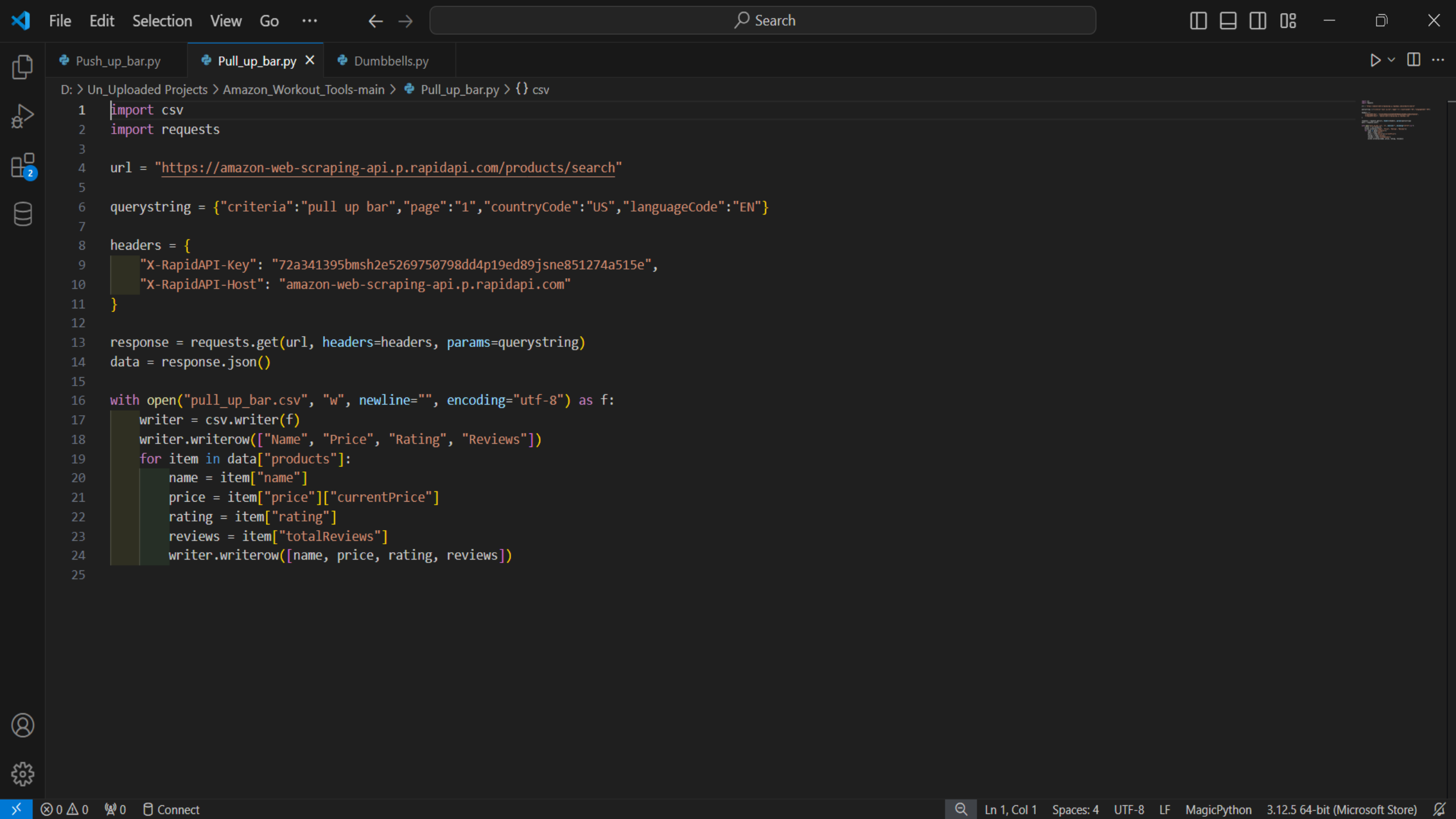
```
1 import csv
2 import requests
3
4 url = "https://amazon-web-scraping-api.p.rapidapi.com/products/search"
5
6 querystring = {"criteria":"Dumbbells","page":"1","countryCode":"US","languageCode":"EN"}
7
8 headers = {
9     "X-RapidAPI-Key": "72a341395bmsh2e5269750798dd4p19ed89jsne851274a515e",
10    "X-RapidAPI-Host": "amazon-web-scraping-api.p.rapidapi.com"
11 }
12
13 response = requests.get(url, headers=headers, params=querystring)
14 data = response.json()
15
16 with open("dumbbells.csv", "w", newline="", encoding="utf-8") as f:
17     writer = csv.writer(f)
18     writer.writerow(["Name", "Price", "Rating", "Reviews"])
19     for item in data["products"]:
20         name = item["name"]
21         price = item["price"]["currentPrice"]
22         rating = item["rating"]
23         reviews = item["totalReviews"]
24         writer.writerow([name, price, rating, reviews])
25
```




```

Push_up_bar.py X
D: > Un_Uploaded Projects > Amazon_Workout_Tools-main > Push_up_bar.py
1  import csv
2  import requests
3
4  url = "https://amazon-web-scraping-api.p.rapidapi.com/products/search"
5
6  headers = {
7      "X-RapidAPI-Key": "98de7e6d1bmsh37dd9ec9c9f6ed0p1db168jsn44120b8d5b28",
8      "X-RapidAPI-Host": "amazon-web-scraping-api.p.rapidapi.com",
9  }
10
11  with open("push_up_bar.csv", "w", newline="", encoding="utf-8") as f:
12      writer = csv.writer(f)
13      writer.writerow(["Name", "Price", "Rating", "Reviews"]) # Write header row
14
15      for page in range(10): # Request first 10 pages
16          querystring = {
17              "criteria": "push up bar",
18              "countryCode": "US",
19              "languageCode": "EN",
20              "pageSize": "50000",
21          }
22
23          response = requests.get(url, headers=headers, params=querystring)
24          try:
25              data = response.json()
26          except ValueError:
27              print(f"Error parsing JSON on page {page}")
28              continue
29
30          if not data:
31              break
32
33          for product in data["products"]:
34              name = product.get("name")
35              price = product.get("price", {}).get("currentPrice")
36              rating = product.get("rating")

```



Push_up_bar.py

Pull_up_bar.py X

Dumbbells.py

D: > Un_Uploaded Projects > Amazon_Workout_Tools-main > Pull_up_bar.py > {} csv

```
1 import csv
2 import requests
3
4 url = "https://amazon-web-scraping-api.p.rapidapi.com/products/search"
5
6 querystring = {"criteria":"pull up bar","page":"1","countryCode":"US","languageCode":"EN"}
7
8 headers = {
9     "X-RapidAPI-Key": "72a341395bmsh2e5269750798dd4p19ed89jsne851274a515e",
10    "X-RapidAPI-Host": "amazon-web-scraping-api.p.rapidapi.com"
11 }
12
13 response = requests.get(url, headers=headers, params=querystring)
14 data = response.json()
15
16 with open("pull_up_bar.csv", "w", newline="", encoding="utf-8") as f:
17     writer = csv.writer(f)
18     writer.writerow(["Name", "Price", "Rating", "Reviews"])
19     for item in data["products"]:
20         name = item["name"]
21         price = item["price"]["currentPrice"]
22         rating = item["rating"]
23         reviews = item["totalReviews"]
24         writer.writerow([name, price, rating, reviews])
25
```



Ln 1, Col 1

Spaces: 4

UTF-8

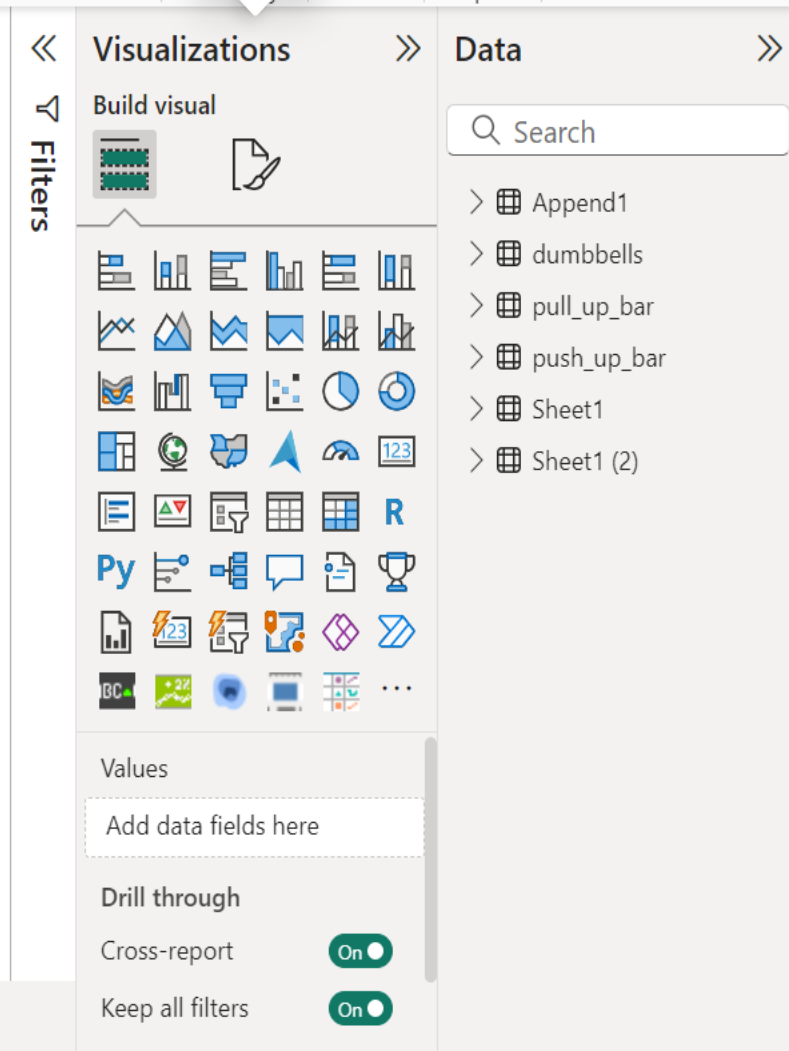
LF

MagicPython

3.12.5 64-bit (Microsoft Store)



Power BI





THANK YOU