231501506

EX:2	EDA-Data Import and Export	AD23632
		111123032

Aim:

- Importing data from CSV, Excel, SQL databases, and web scraping
- Handling different data formats
- Export a DataFrame to an Excel file

CODE:

```
import pandas as pd
import sqlite3
from google.colab import files

uploaded = files.upload()
df_csv = pd.read_csv('final_dataset.csv')
print("$\sqrt{CSV Data:}")
print(df_csv.head())
```

```
Choose Files final dataset.csv

    final dataset.csv(text/csv) - 78368 bytes, last modified: 8/6/2025 - 100% done

     Saving final dataset.csv to final dataset (1).csv
      CSV Data:
        Date Month Year Holidays_Count Days PM2.5 PM10
                                                                                 NO2
                                                                                          502 \
           1 1 2021 0 5 408.80 442.42 160.61 12.95
2 1 2021 0 6 404.04 561.95 52.85 5.18
3 1 2021 1 7 225.07 239.04 170.95 10.93
4 1 2021 0 1 89.55 132.08 153.98 10.42
5 1 2021 0 2 54.06 55.54 122.66 9.70
          1
     1
          4
          CO Ozone AQI
     0 2.77 43.19 462
     1 2.60 16.43 482
     2 1.40 44.29 263
     3 1.01 49.19
     4 0.64 48.88 149
```

```
uploaded = files.upload()
df_excel = pd.read_excel('converted_file.xlsx')
print("$\sqrt{Excel Data:"}$)
print(df_excel.head())
```

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```
df_web =
pd.read_html("https://en.wikipedia.org/wiki/List of countries by GDP (nomi
nal)")[2]
print("$\sqrt{$\text{Web-Scraped Table:"}}$)
print(df_web.head())
```

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```
→ Web-Scraped Table:
                                         World Bank[13]
        Country/Territory IMF[1][12]
        Country/Territory Forecast Year Estimate
World 113795678 2025 111326370
United States 30507217 2025 29184890
                                                             Year
                                                              2024
                                                             2024
       1
                                                29184890
                                               18743803 [n 3]2024
                China 19231705 [n 1]2025
                 Germany 4744804 2025
India 4187017 2025
       3
                                       2025
2025
                                                 4659929
                                                              2024
                                                 3912686
       4
                                                              2024
        United Nations[14]
                              Year
                 Estimate
                100834796
                27720700
       1
                              2023
       2
                 17794782 [n 1]2023
                 4525704 2023
                 3575778
                              2023
json_data = '{ "name": ["Alice", "Bob"], "age": [25, 30]}'
df_json = pd.read_json(json_data)
print("

✓ JSON Data:")
print(df_json)
 JSON Data:
    name age
0 Alice 25
    Bob
          30
/tmp/ipython-input-2620177547.py:2: FutureWarning: Passing literal json to 'read_json'
  df json = pd.read json(json data)
data_dict = {
   'Fruit': ['Apple', 'Banana', 'Orange'],
   'Quantity': [10, 15, 20]
df_dict = pd.DataFrame(data_dict)
print("

✓ Dictionary Data:")
print(df_dict)
       → V Dictionary Data:
                Fruit Quantity
               Apple
                                10
            1 Banana
                                15
                                20
            2 Orange
df_dict.to_excel("exported_file.xlsx", index=False)
print("

✓ DataFrame exported to Excel: exported_file.xlsx")
```

DataFrame exported to Excel: exported_file.xlsx

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Result:	
Thus the EDA-Data Import and Export is done succe	essfully.