Ex 2 EDA-Data Import and Export

**AIM:**  
To perform exploratory data analysis by importing data from various sources such as CSV, Excel, SQL, and web scraping, and export DataFrames into Excel and CSV formats using Python.

1. Importing data from CSV, Excel, SQL databases, and web scraping

* **CSV**

import pandas as pd

df = pd.read\_csv('/content/suv\_data.csv')

df.head()

OUTPUT:

A screenshot of a graph

AI-generated content may be incorrect.

* **EXCEL**

!pip install openpyxl

df.to\_excel('suv\_data.xlsx', index=False)

df2 = pd.read\_excel('suv\_data.xlsx')

df2.head()

OUTPUT:

A screenshot of a graph

AI-generated content may be incorrect.

* **SQL DB**

import sqlite3

import pandas as pd

conn = sqlite3.connect('[mydata.db](http://mydata.db)')

df = pd.read\_csv('suv\_data.csv') # Your existing data

df.to\_sql('suv\_table', conn, if\_exists='replace', index=False) # Store to SQL

df\_sql = pd.read\_sql\_query("SELECT \* FROM suv\_table", conn)

df\_sql.head()

conn.close()

OUTPUT:

A screenshot of a graph

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* **WEB SCRAPING**

import pandas as pd

url = 'https://en.wikipedia.org/wiki/List\_of\_countries\_by\_GDP\_(nominal)'

tables = pd.read\_html(url) # This will return a list of tables

print(len(tables)) # See how many tables were found

df\_web = tables[1] # You can try 0, 1, 2, etc.

df\_web.head()

OUTPUT:

A screenshot of a graph

AI-generated content may be incorrect.

1. Handling different data formats

* **JSON**

A screenshot of a computer program

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* **XML**

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* **PYTHON DICTIONARY**

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1. Export a DataFrame to an Excel file.

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