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**Team**

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# Internet Disparity

**User Guide & Steps**

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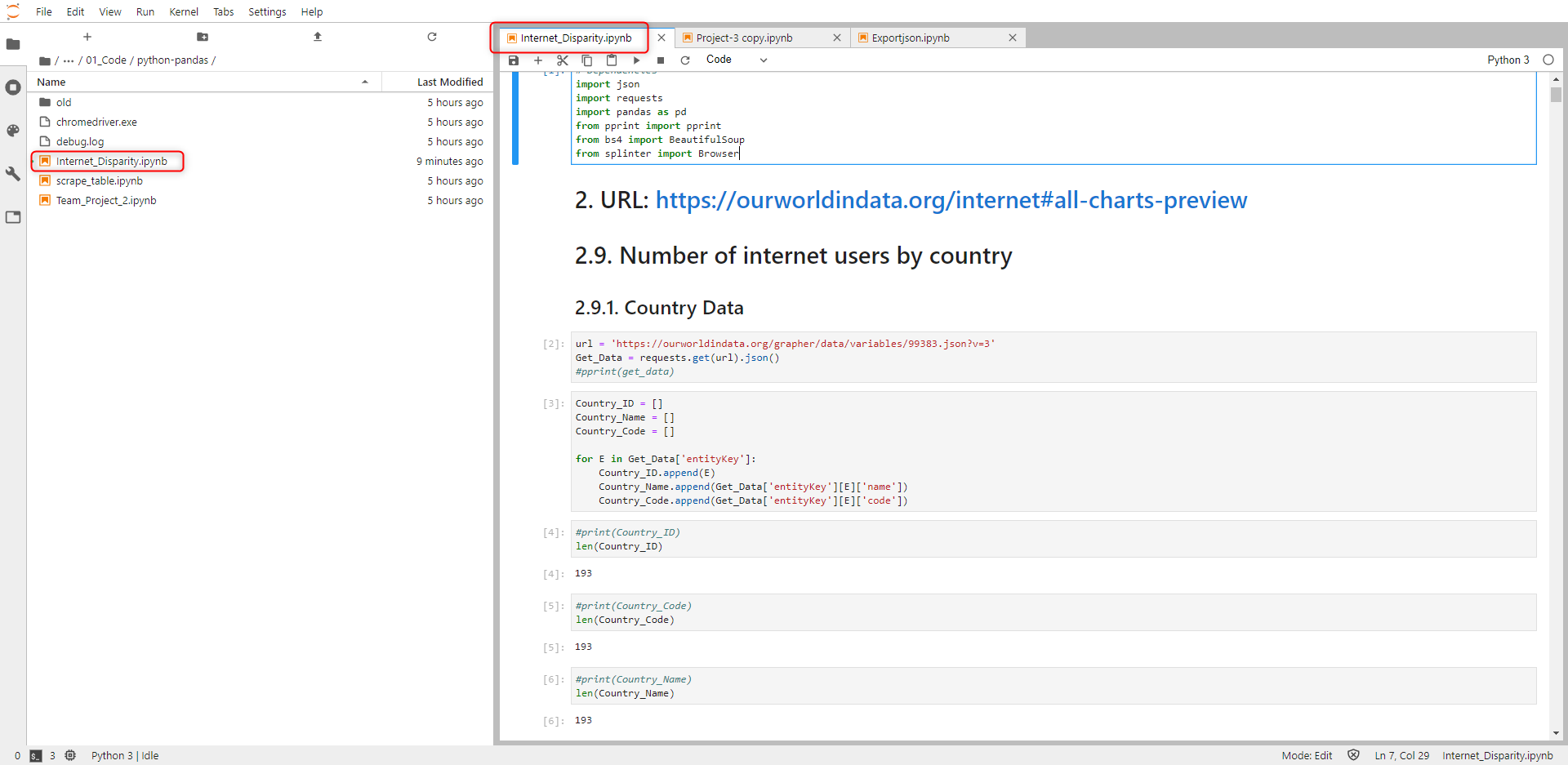
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# Extract

## Notebook



Path:

…\17\_Global\_Digital\_Divide\_Project\_2\Project Work\02 - Analysis\01\_Extraction\01\_Code\python-pandas\ Internet\_Disparity.ipynb

## Complementary files

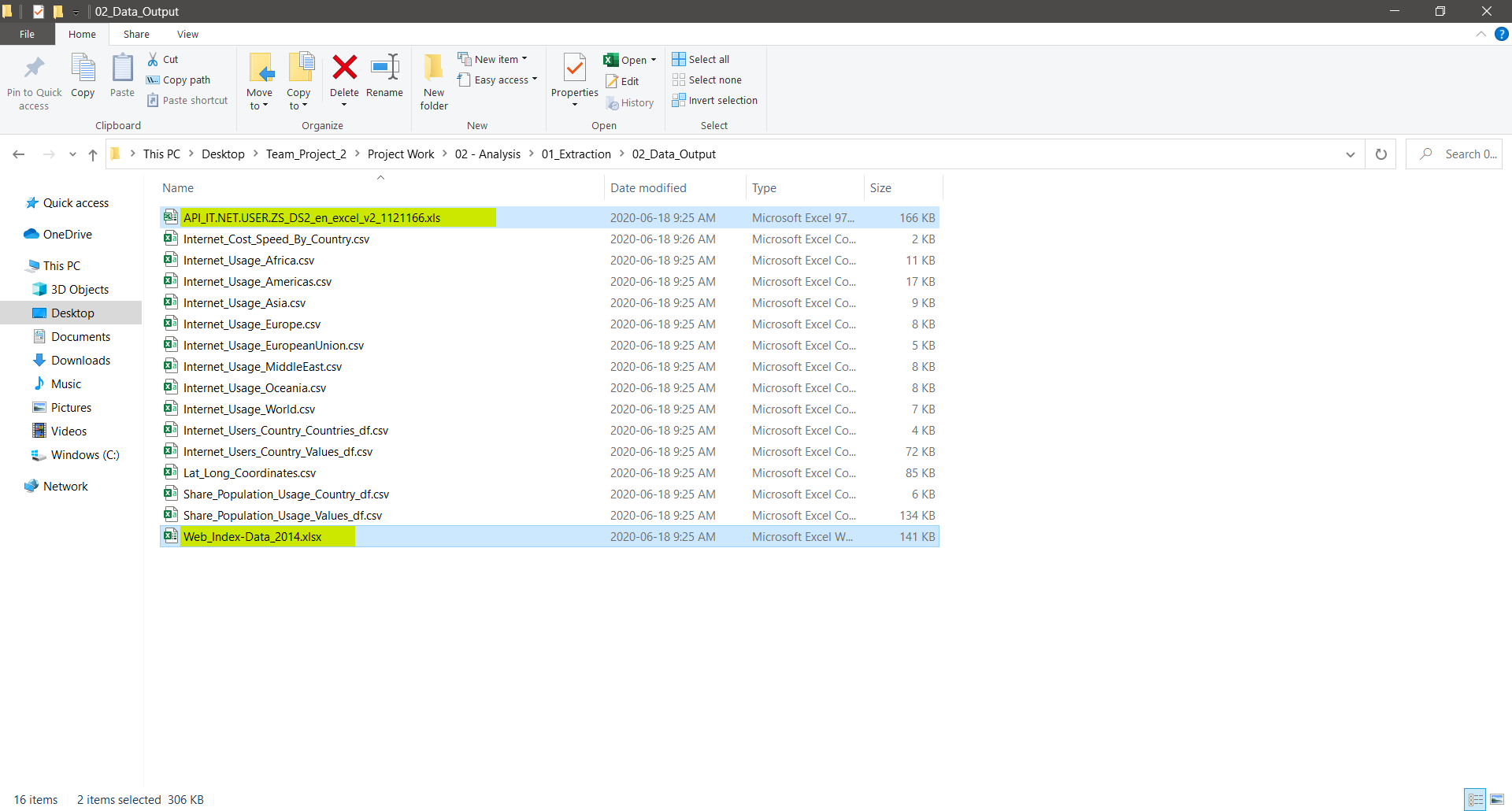
All files are automatically downloaded using the python/pandas code.

2 files out of 16 are stored in the default download folder.

Users will have to copy/paste those 2 files into folder below.

Path:

…\17\_Global\_Digital\_Divide\_Project\_2\Project Work\02 - Analysis\01\_Extraction\02\_Data\_Output



# Transform

## Create a PgAdmin (SQL) database

Later in the process, Jupyter Notebook will connect to the database and insert the data automatically.

*Prior to that, create a database and update its name to ‘Internet\_DB’, your username to ‘localhost’ & your password to ‘localhost’.*

Use these credentials to connect to the database.

It is highly suggested to change them at the end of the project to make them more personal.

Create a query to create the table by using this code located here:

…\17\_Global\_Digital\_Divide\_Project\_2\Project Work\02 - Analysis\03\_Load\_Analyze\_SQL\Analysis.sql

## Jupyter Notebook

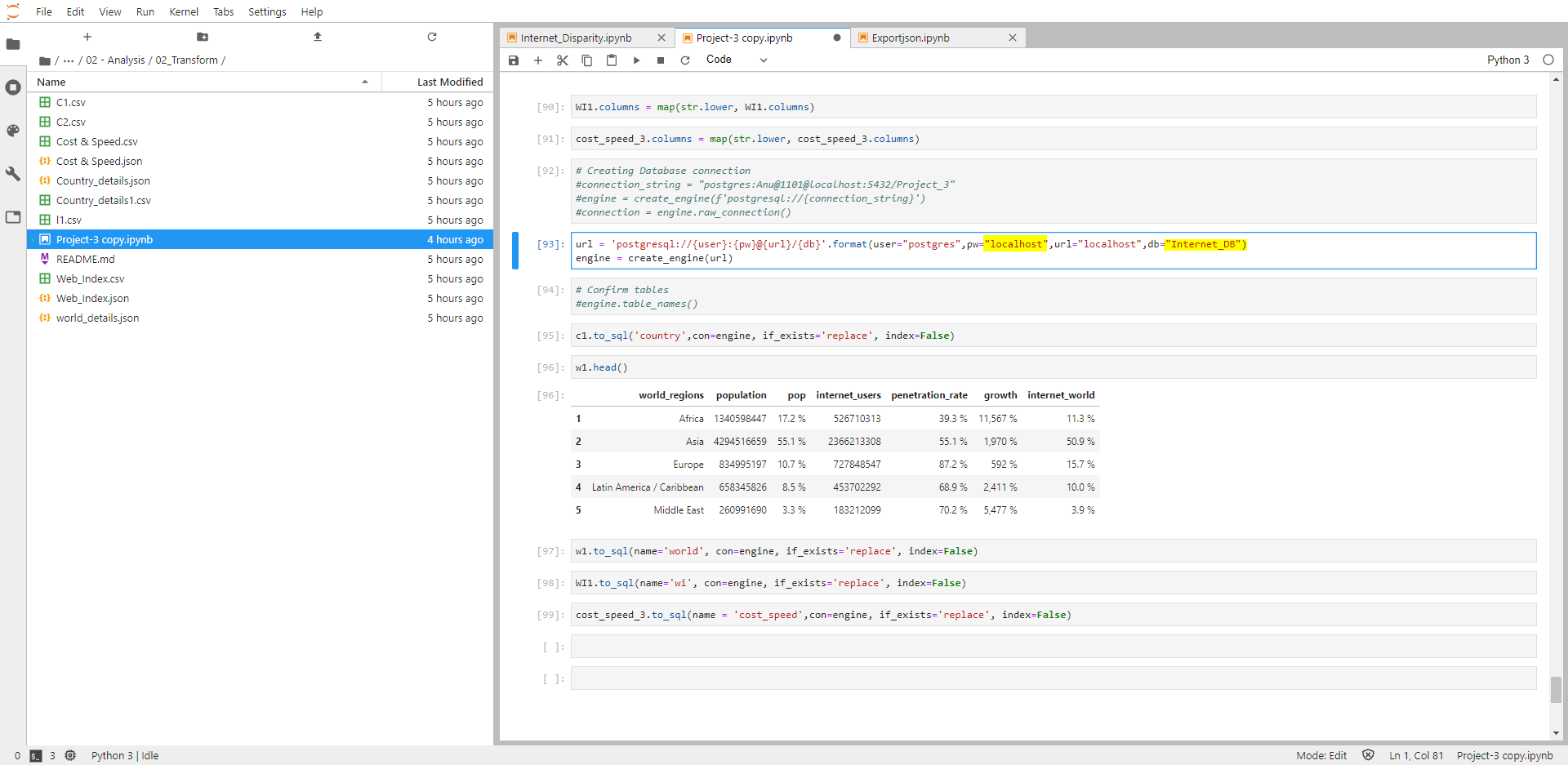
***Pre-requisite:***

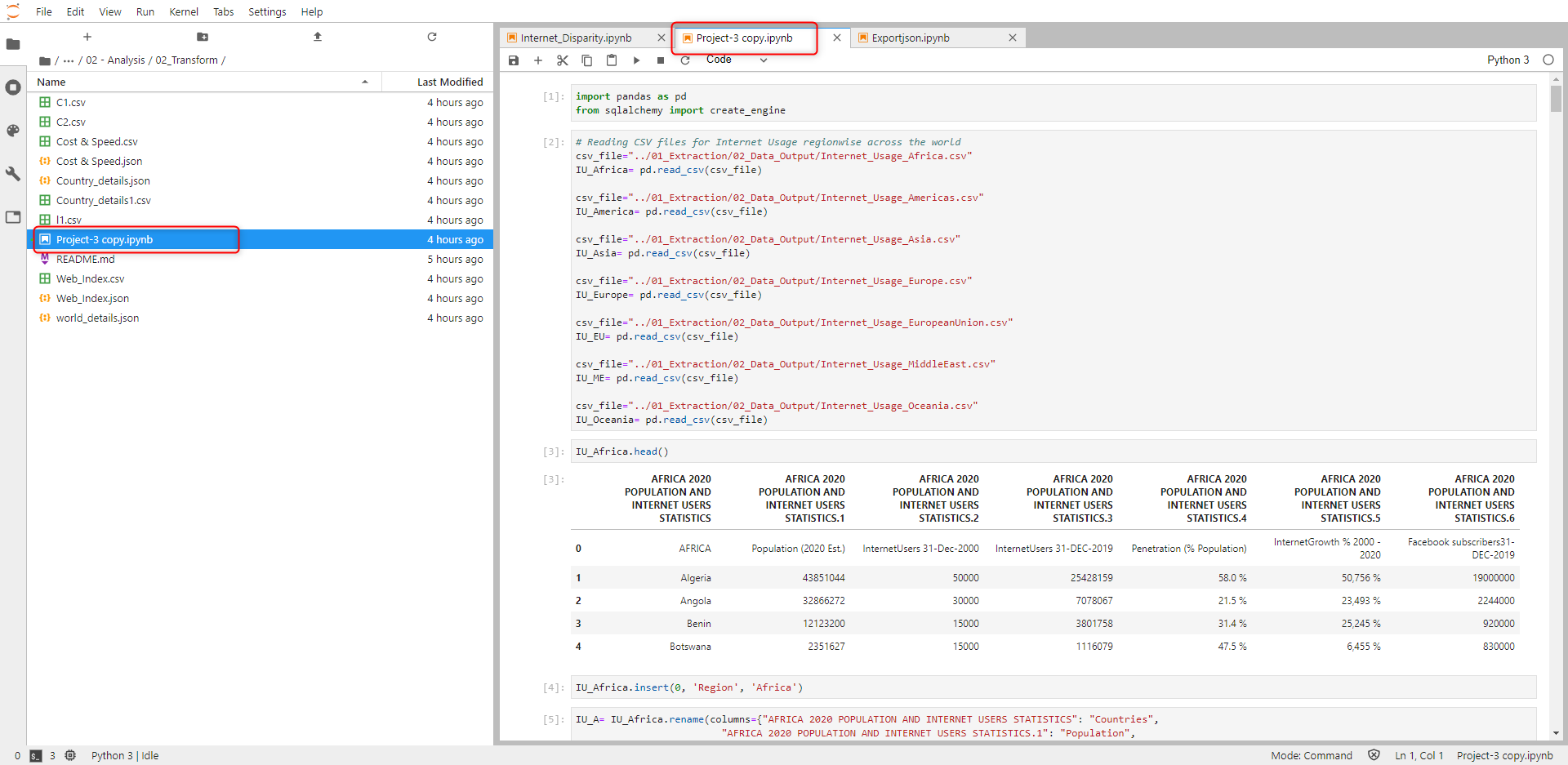
*User must have created a database named ‘Internet\_DB’, prior to connecting to running this code.*

Run this file that contains the code to load the data included in the database.

Path:

…\17\_Global\_Digital\_Divide\_Project\_2\Project Work\02 - Analysis\02\_Transform\Project-3 copy.ipynb





# Load

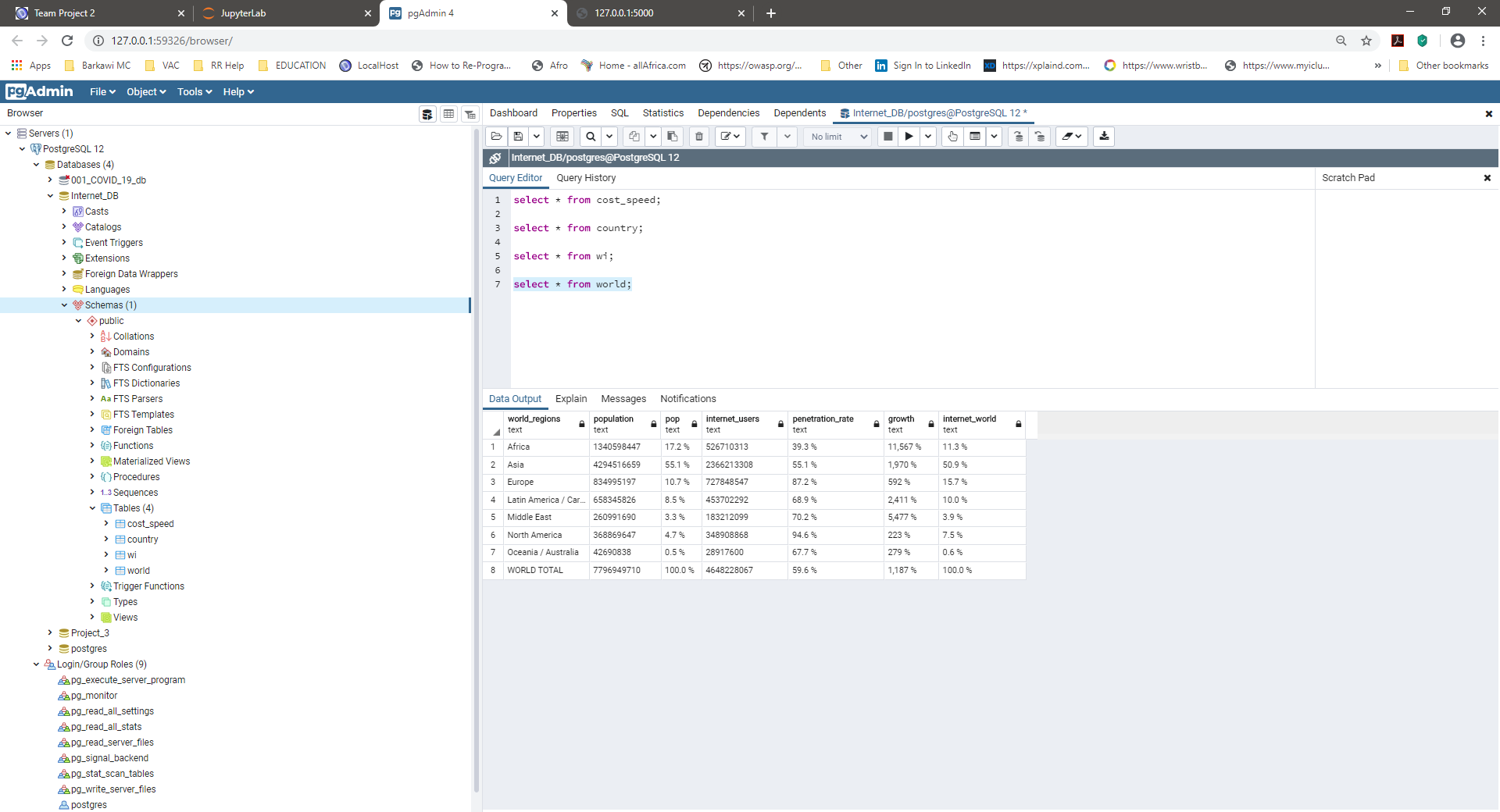
## PgAdmin (SQL)

***Pre-requisite:***

*User must have created a database named ‘Internet\_DB’, prior to connecting to running this code.*

The database was loaded at the end of the previous step by Jupyter Notebook, automatically.

Verify that tables are populated by running queries below.



# Flask app

## Python code

***Pre-requisite:***

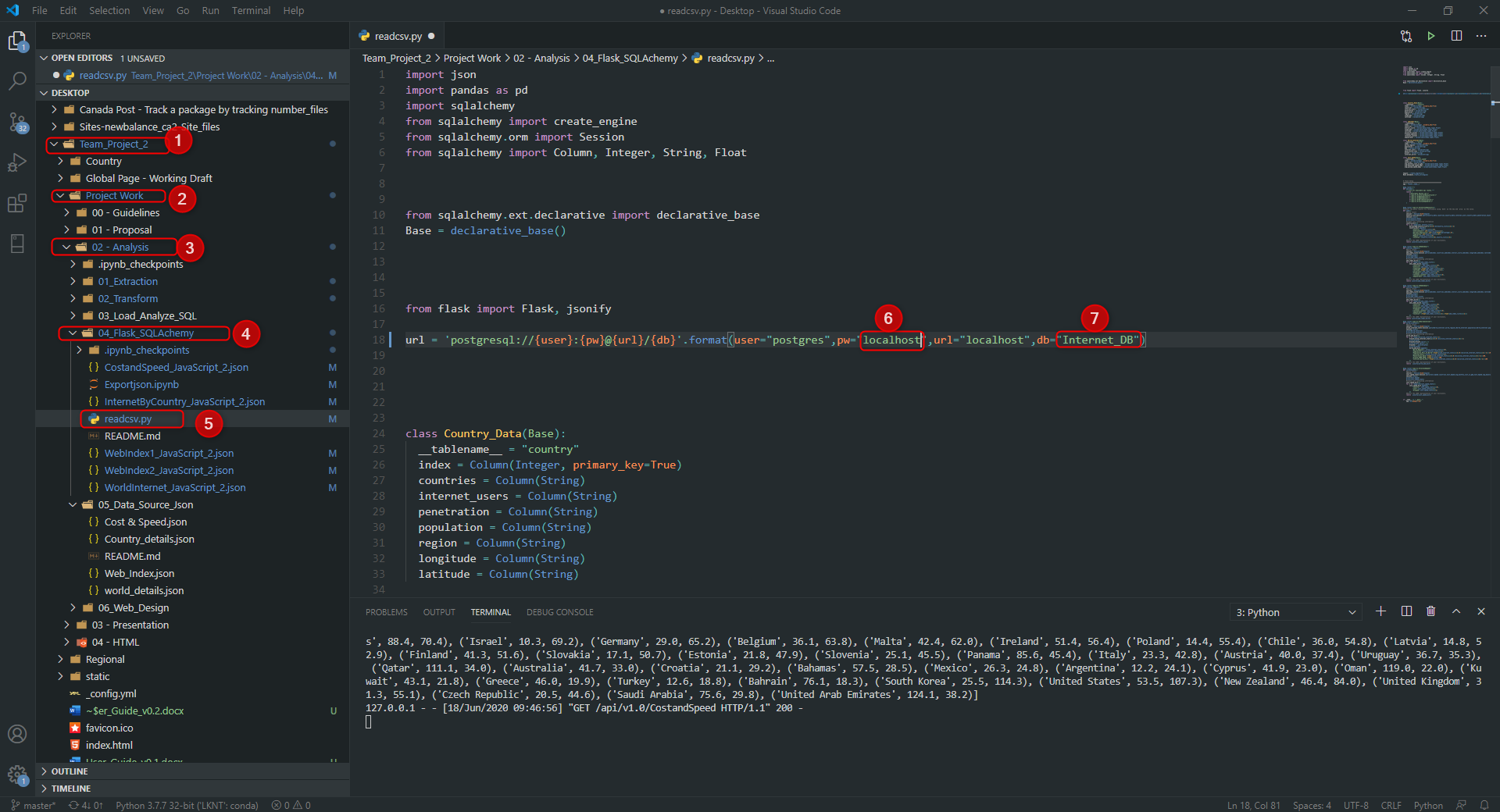
*User must have created a database named ‘Internet\_DB’, prior to connecting to running this code.*

Run the .py file to get data from the database.

Use credentials defined previously.

Path:

… \17\_Global\_Digital\_Divide\_Project\_2\Project Work\02 - Analysis\04\_Flask\_SQLAchemy\ readcsv.py



Please don’t be mislead by the file name ‘readcsv.py’ .

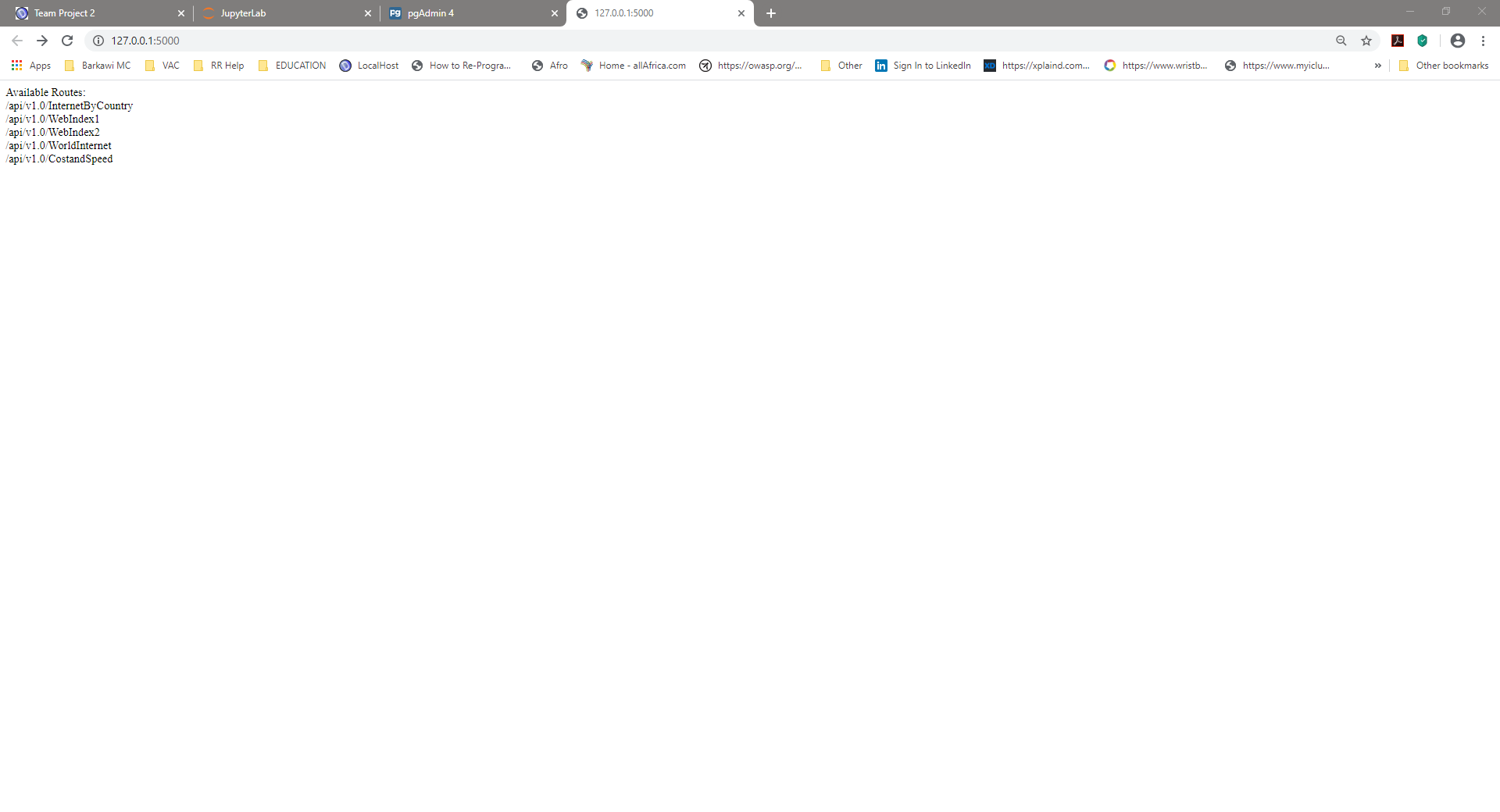
# Api

## Default url

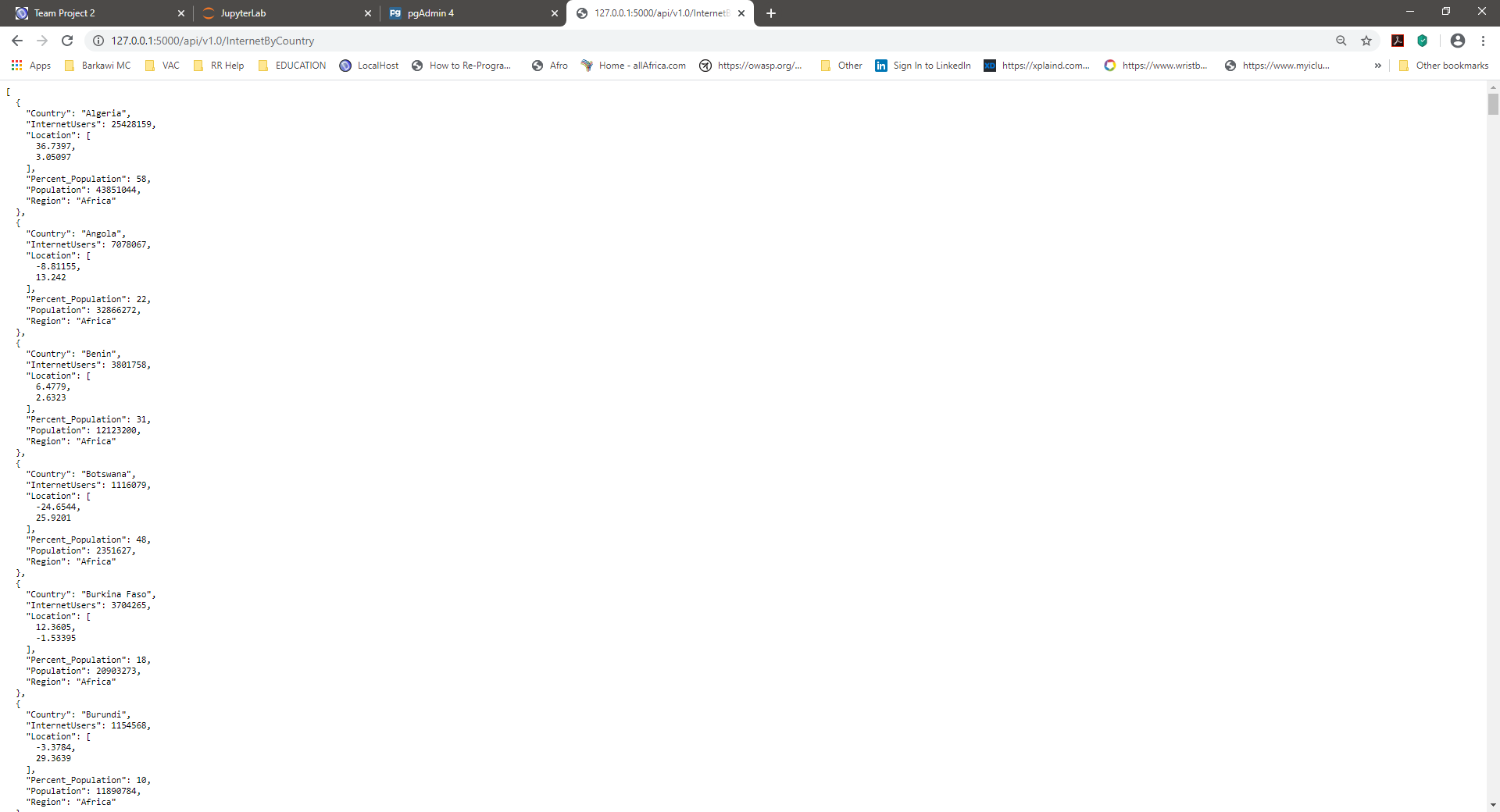
The API is created ath the following address 🡺 url = <http://127.0.0.1:5000/> .

Copy/paste the url above in your browser to see JSON data.

Below are the routes available.



## Example using a specific route

****

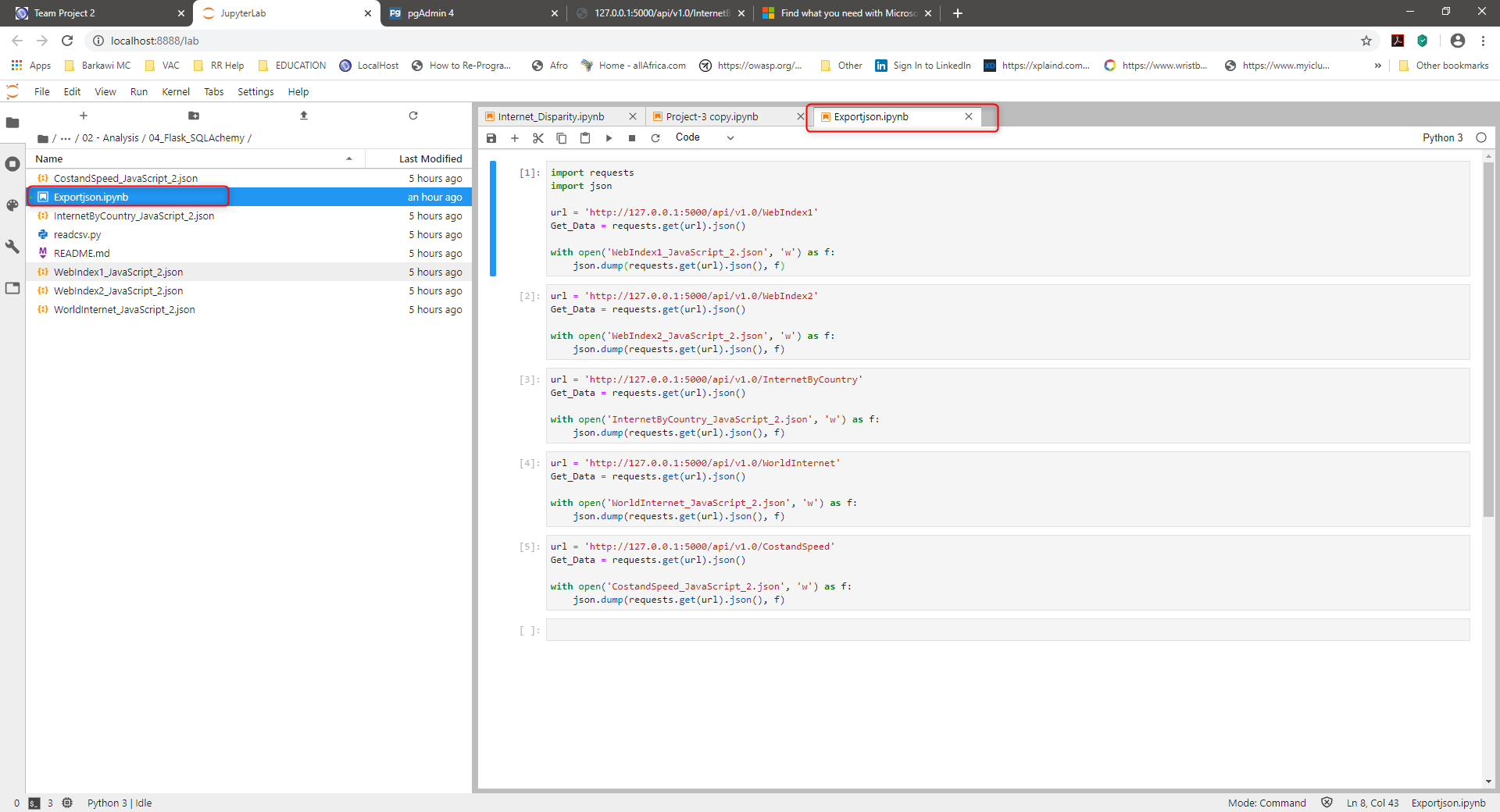
# Json files

## Jupyter Notebook & Create Json Files

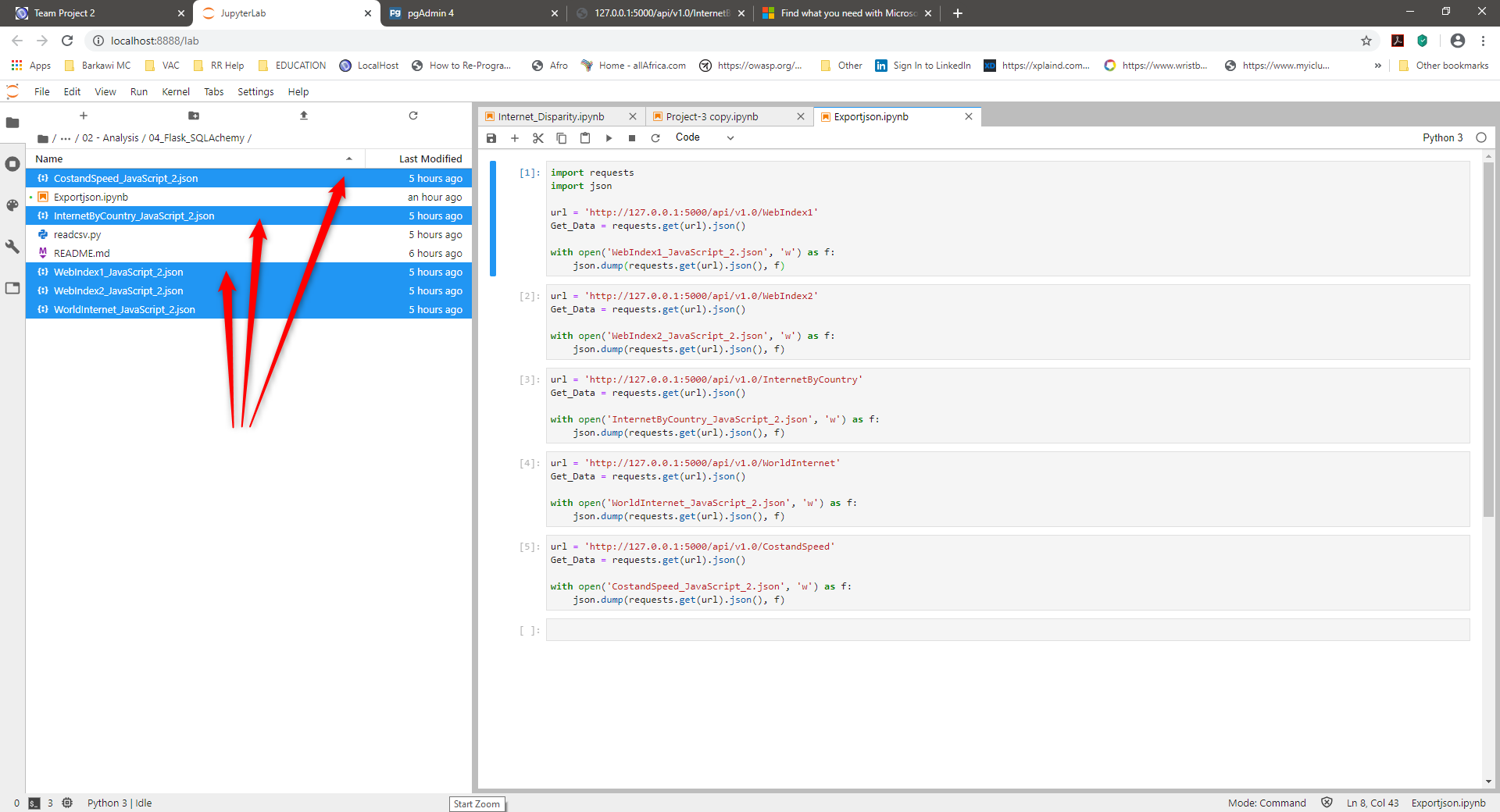
Run Jupyter Notebook to generate JSON files.

Path:

…\17\_Global\_Digital\_Divide\_Project\_2\Project Work\02 - Analysis\04\_Flask\_SQLAchemy\Exportjson.ipynb



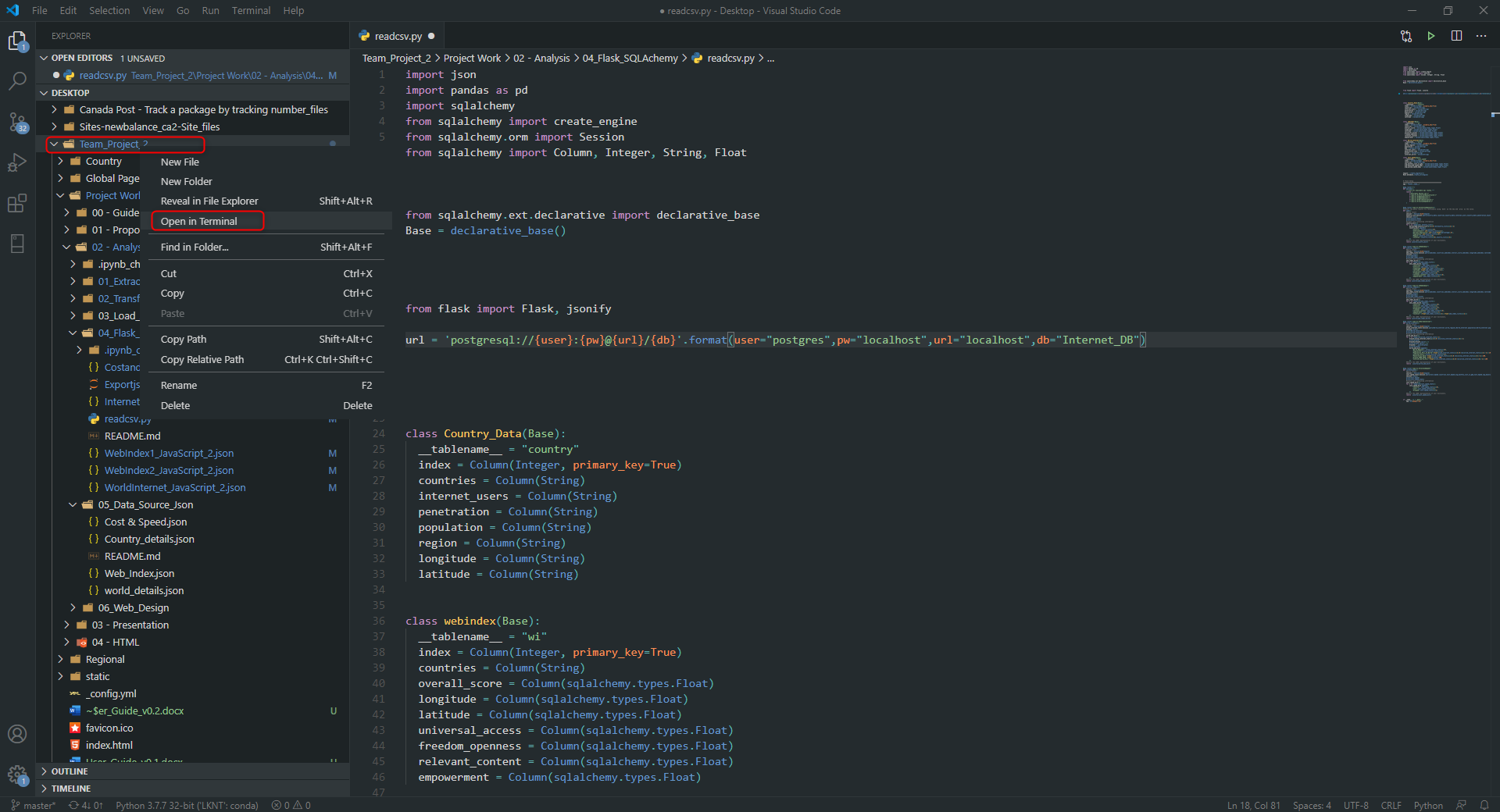
See files generated within the same folder.

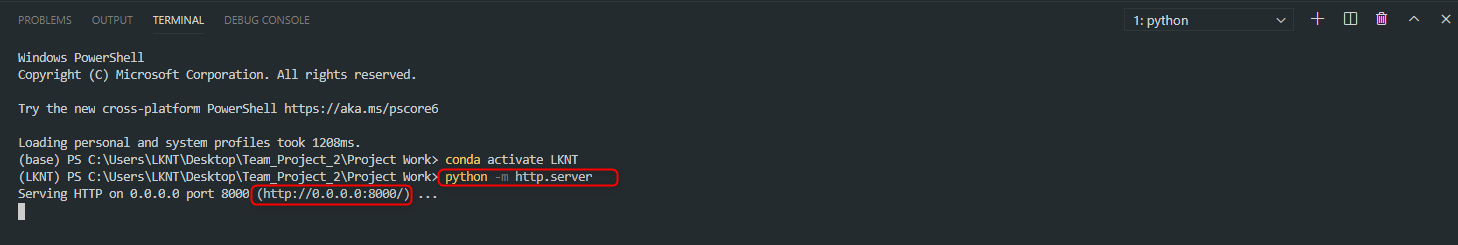


# Create the python server to render the html pages

## Terminal & Server

* Download this entire project from Github
* Open VS Code or your IDE
* Choose 'File > Open Folder'
* Select the path to the folder located 1 level above the folder where the index.html is located.
  + Example if your index file is located: Documents/.../Folder\_Level\_1\_Above/ 17\_Global\_Digital\_Divide\_Project\_2/index.html
  + Select: Folder\_Level\_1\_Above
* Right click the folder that contains your index.html, it should be named: 17\_Global\_Digital\_Divide\_Project\_2
* Select: Open in integrated terminal
* It should open the terminal
* In the terminal do the following:
  + Type the command 'conda activate Your\_Environment\_Name' ; Your\_Environment\_Name is the name of your Python environment you defined
  + Run the server by typing the following: 'Python -m http.server'
  + Then, copy/paste this url (<http://localhost:8000/>) into your browser and press enter
* The page should load the charts and you can now selection menu or dropdown list to show the desired information
* Don't forget to shut down the server by closing your Python terminal in VS Code





## Localhost

Use your browser and go to the following url: <http://localhost:8000/>

Go to the website, see result below:

