COVID-19 Vaccines Analysis

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Course Name-Applied data science

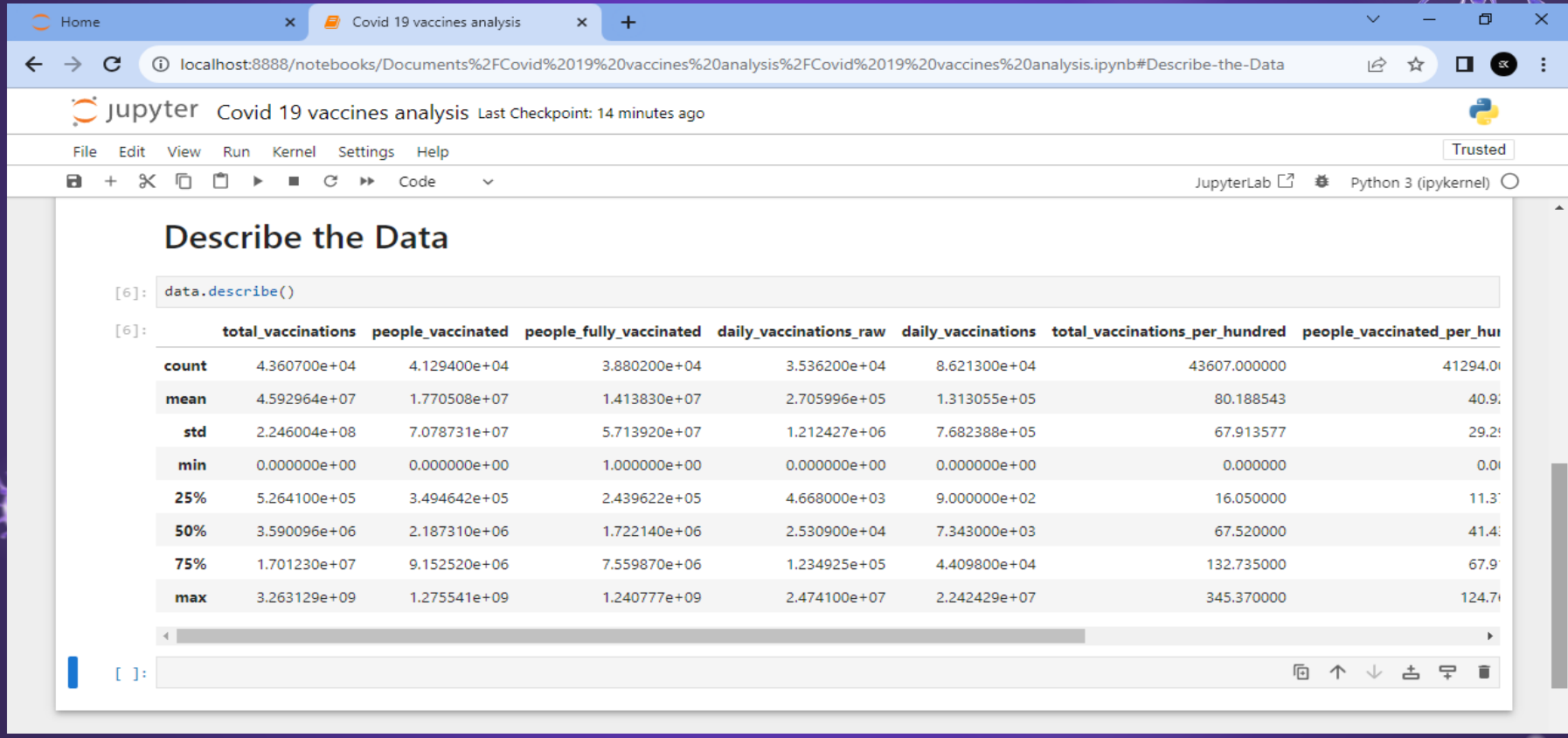
Phase-III

Development
Part 1

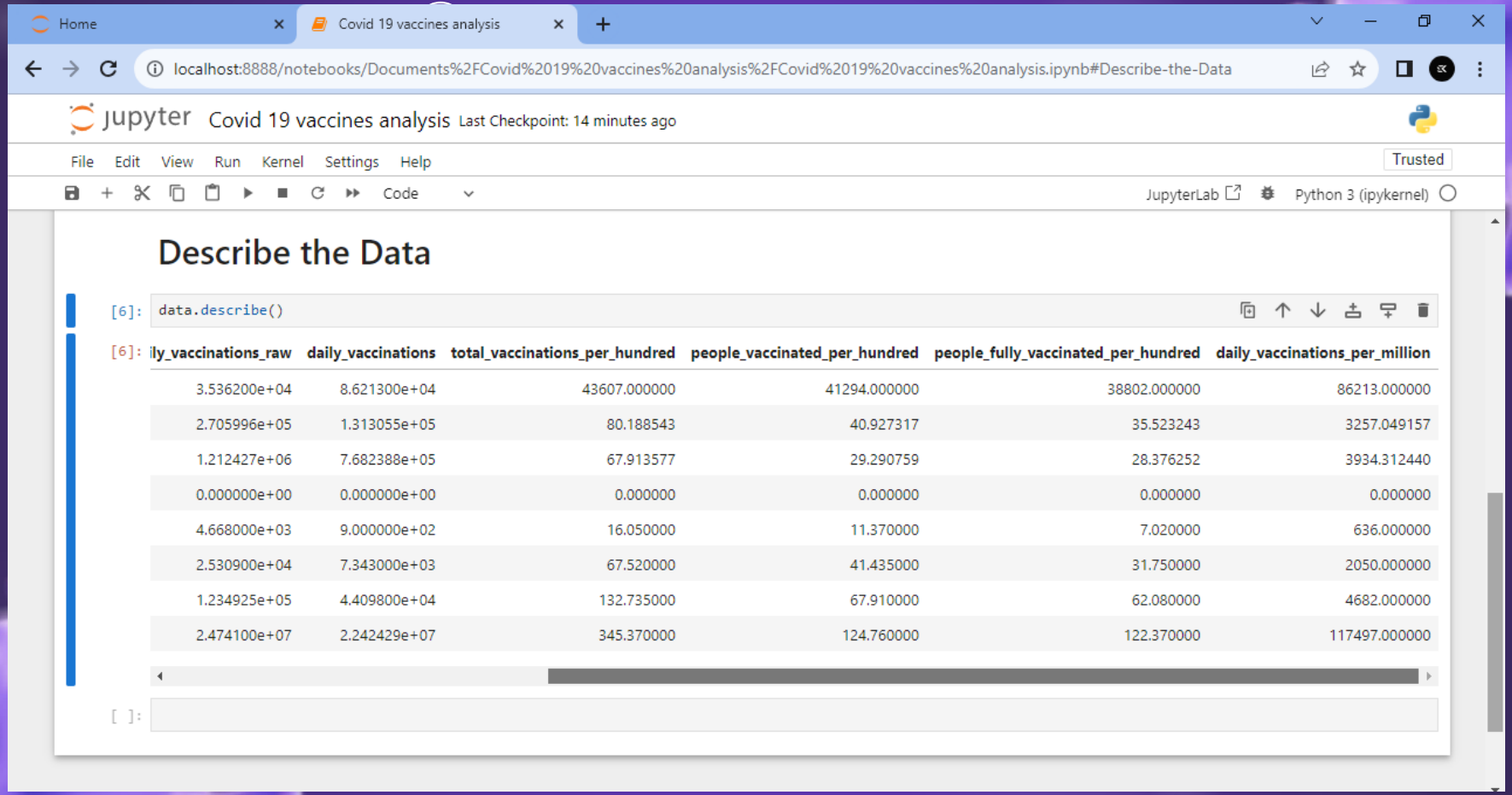
In this part you will begin building your project by loading and preprocessing the dataset.
Begin conducting the Covid-19 vaccines analysis by collecting and preprocessing the data.
Collect and preprocess the Covid-19 vaccine data for analysis.

Fig.1

Describe the Data



	total_vaccinations	people_vaccinated	people_fully_vaccinated	daily_vaccinations_raw	daily_vaccinations	total_vaccinations_per_hundred	people_vaccinated_per_hu
count	4.360700e+04	4.129400e+04	3.880200e+04	3.536200e+04	8.621300e+04	43607.000000	41294.0
mean	4.592964e+07	1.770508e+07	1.413830e+07	2.705996e+05	1.313055e+05	80.188543	40.9
std	2.246004e+08	7.078731e+07	5.713920e+07	1.212427e+06	7.682388e+05	67.913577	29.2
min	0.000000e+00	0.000000e+00	1.000000e+00	0.000000e+00	0.000000e+00	0.000000	0.0
25%	5.264100e+05	3.494642e+05	2.439622e+05	4.668000e+03	9.000000e+02	16.050000	11.3
50%	3.590096e+06	2.187310e+06	1.722140e+06	2.530900e+04	7.343000e+03	67.520000	41.4
75%	1.701230e+07	9.152520e+06	7.559870e+06	1.234925e+05	4.409800e+04	132.735000	67.9
max	3.263129e+09	1.275541e+09	1.240777e+09	2.474100e+07	2.242429e+07	345.370000	124.7


Home
Covid 19 vaccines analysis
localhost:8888/notebooks/Documents%2FCovid%2019%20vaccines%20analysis%2FCovid%2019%20vaccines%20analysis.ipynb#Describe-the-Data
jupyter Covid 19 vaccines analysis Last Checkpoint: 14 minutes ago
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Code
JupyterLab
Python 3 (ipykernel)
Describe the Data
[6]: data.describe()
[6]:
ily_vaccinations_raw daily_vaccinations total_vaccinations_per_hundred people_vaccinated_per_hundred people_fully_vaccinated_per_hundred daily_vaccinations_per_million
3.536200e+04 8.621300e+04 43607.000000 41294.000000 38802.000000 86213.000000
2.705996e+05 1.313055e+05 80.188543 40.927317 35.523243 3257.049157
1.212427e+06 7.682388e+05 67.913577 29.290759 28.376252 3934.312440
0.000000e+00 0.000000e+00 0.000000 0.000000 0.000000 0.000000
4.668000e+03 9.000000e+02 16.050000 11.370000 7.020000 636.000000
2.530900e+04 7.343000e+03 67.520000 41.435000 31.750000 2050.000000
1.234925e+05 4.409800e+04 132.735000 67.910000 62.080000 4682.000000
2.474100e+07 2.242429e+07 345.370000 124.760000 122.370000 117497.000000
[ ]:

Data Describe

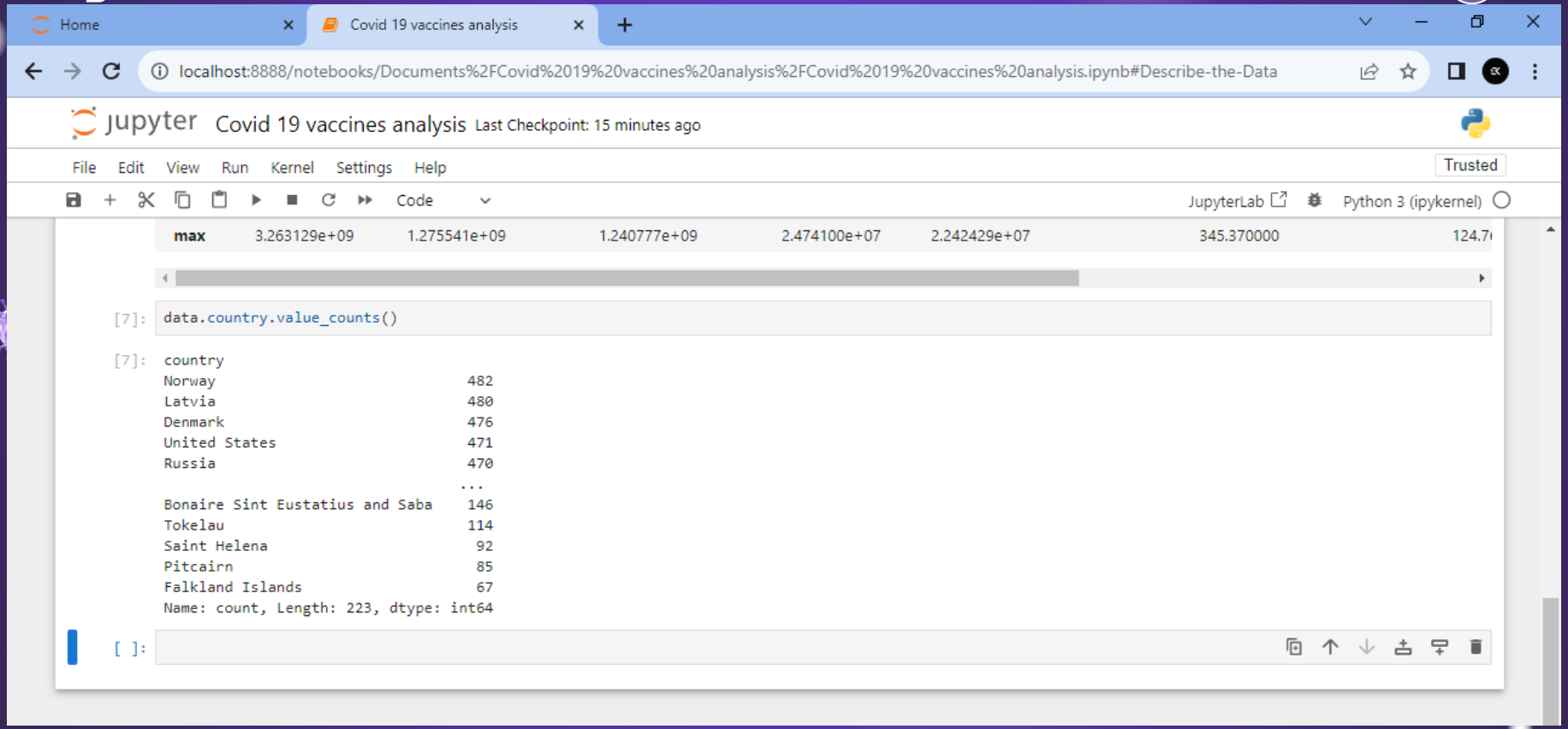
The Fig.1 is refer the Data describe of Covid -19 vaccines analysis of

- ❑ Total_vaccinations
- ❑ People_vaccinated
- ❑ People_fully_vaccinated
- ❑ Daily_vaccinations_raw
- ❑ Vaccines
- ❑ Source_name
- ❑ Source_website

Data Describe is information that has been translated into a form that is efficient for movement or processing

Data of country and value counts

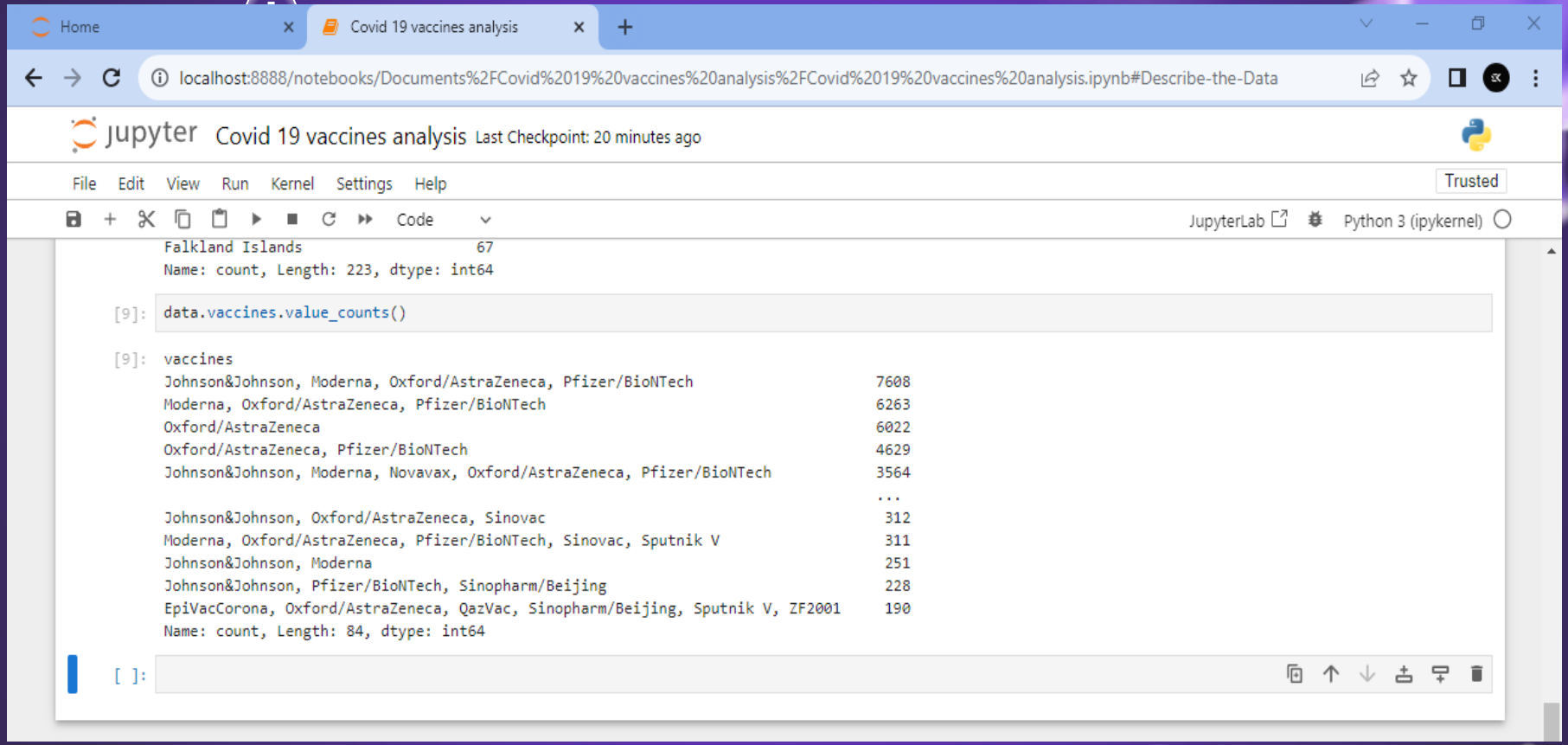
Fig.2



The Fig.2 is refer to the Data of country and value counts of the Covid-19 vaccines analysis because this fig.2 is have a country of the names and value of the Covid-19 counts are in this fig.2.

Fig.3

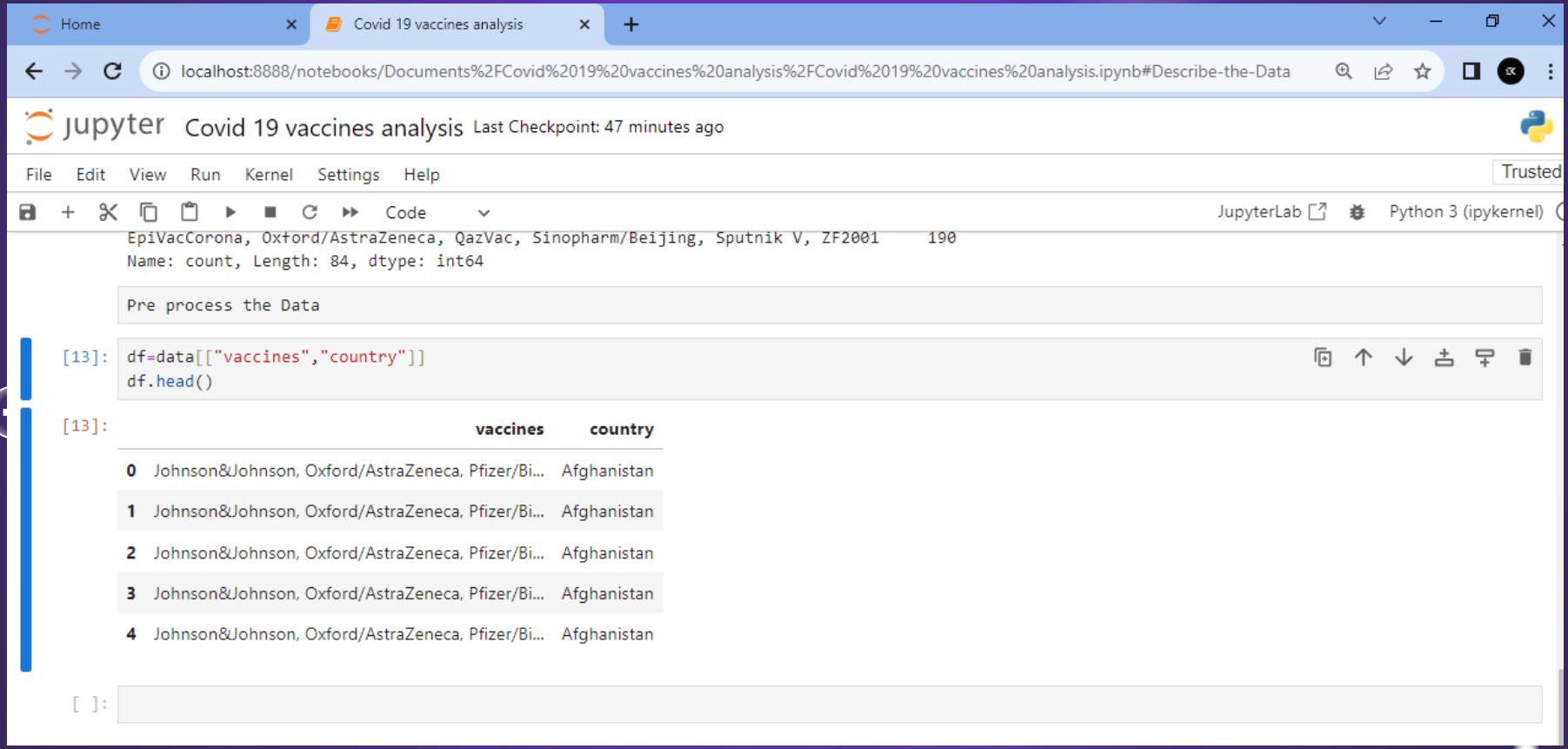
Data of vaccines and value counts



The Fig.3 is refer to the data of vaccines and value counts are in Fig.3.
thare are vaccines is production by
*Johnson&Johnson
*Oxford/AstraZeneca
*Pfizer/BioNTech
*Sinopharm/Beijing and value of vaccines count

Fig.4

Data of vaccines used in country



The Fig.4 is refer to the Data of vaccines used in country in the Fig.4 *Johnson&Johnson

*Oxford/AstraZeneca

*Pfizer/BioNTech

*Sinopharm/Beijing this vaccines are used in the country.

Line plot graph for Country and value counts

Fig.5

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localhost:8888/notebooks/Documents%2FCovid%2019%20vaccines%20analysis%2FCovid%2019%20vaccines%20analysis.ipynb#Describe-the-Data

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Code

JupyterLab

Python 3 (ipykernel)

```
[22]: plt.plot(data.country.value_counts())
```

```
[22]: [<matplotlib.lines.Line2D at 0x2de8f7d4cd0>]
```

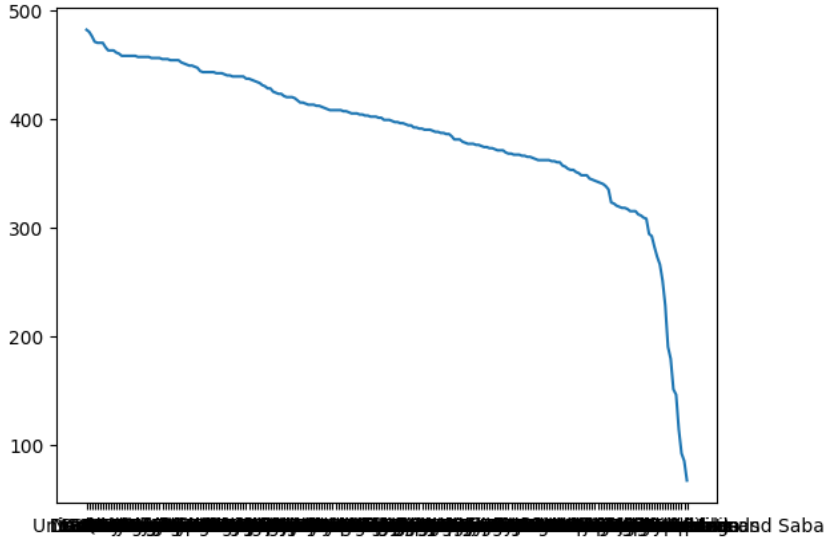
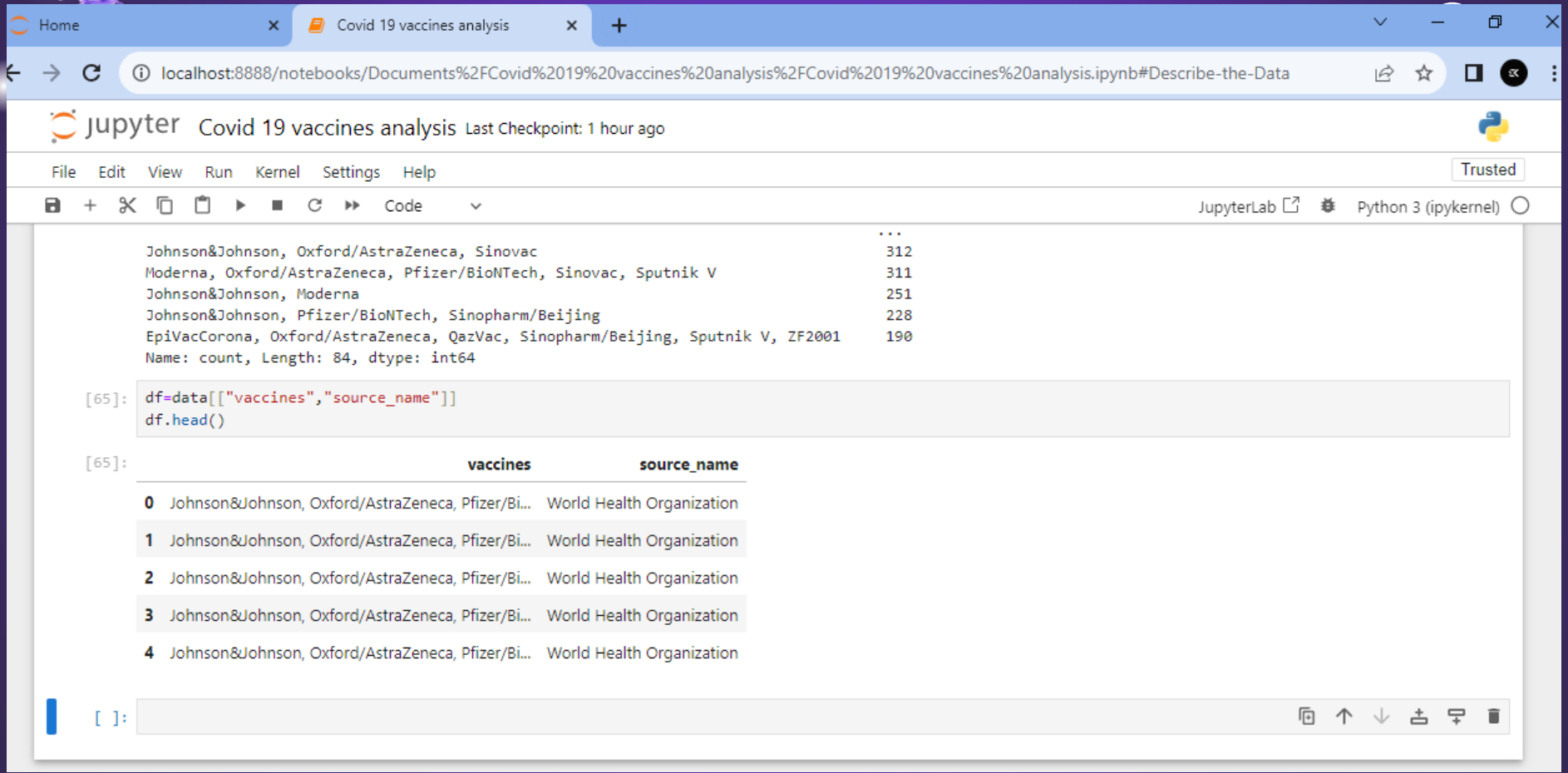


Fig.6.

Data of vaccines and source name



The Fig.6 is refer to the vaccines and source name in the Fig.6
The source name is World Health Organization of (WHO) is the Source name of vaccines is distributions in all country.

Fig.7

Data of vaccines and value counts

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localhost:8888/notebooks/Documents%2FCovid%2019%20vaccines%20analysis%2FCovid%2019%20vaccines%20analysis.ipynb#Describe-the-Data

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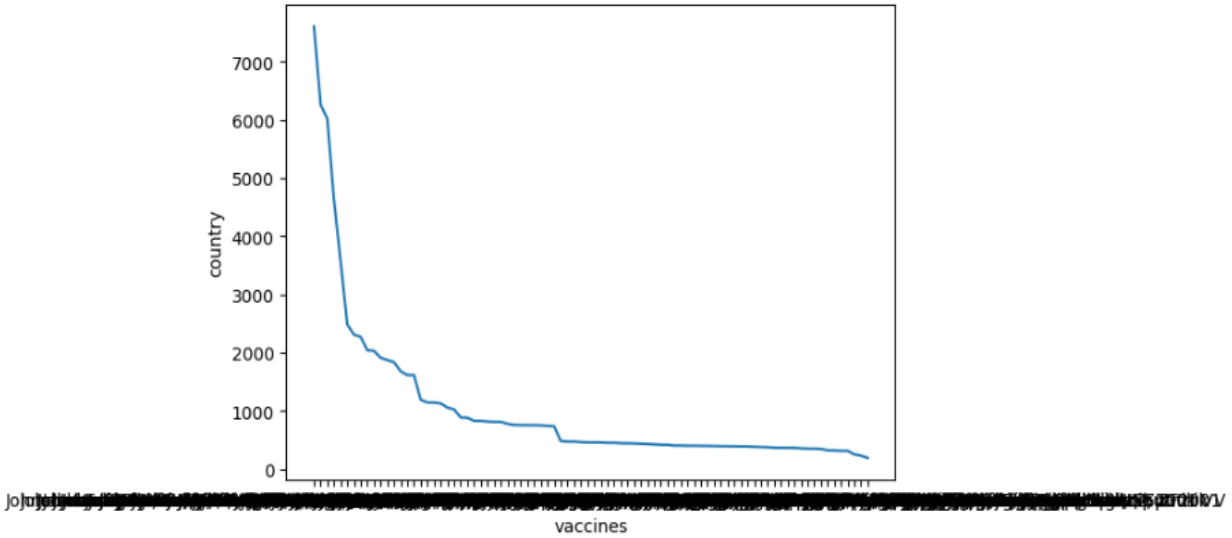
Code

JupyterLab Python 3 (ipykernel)

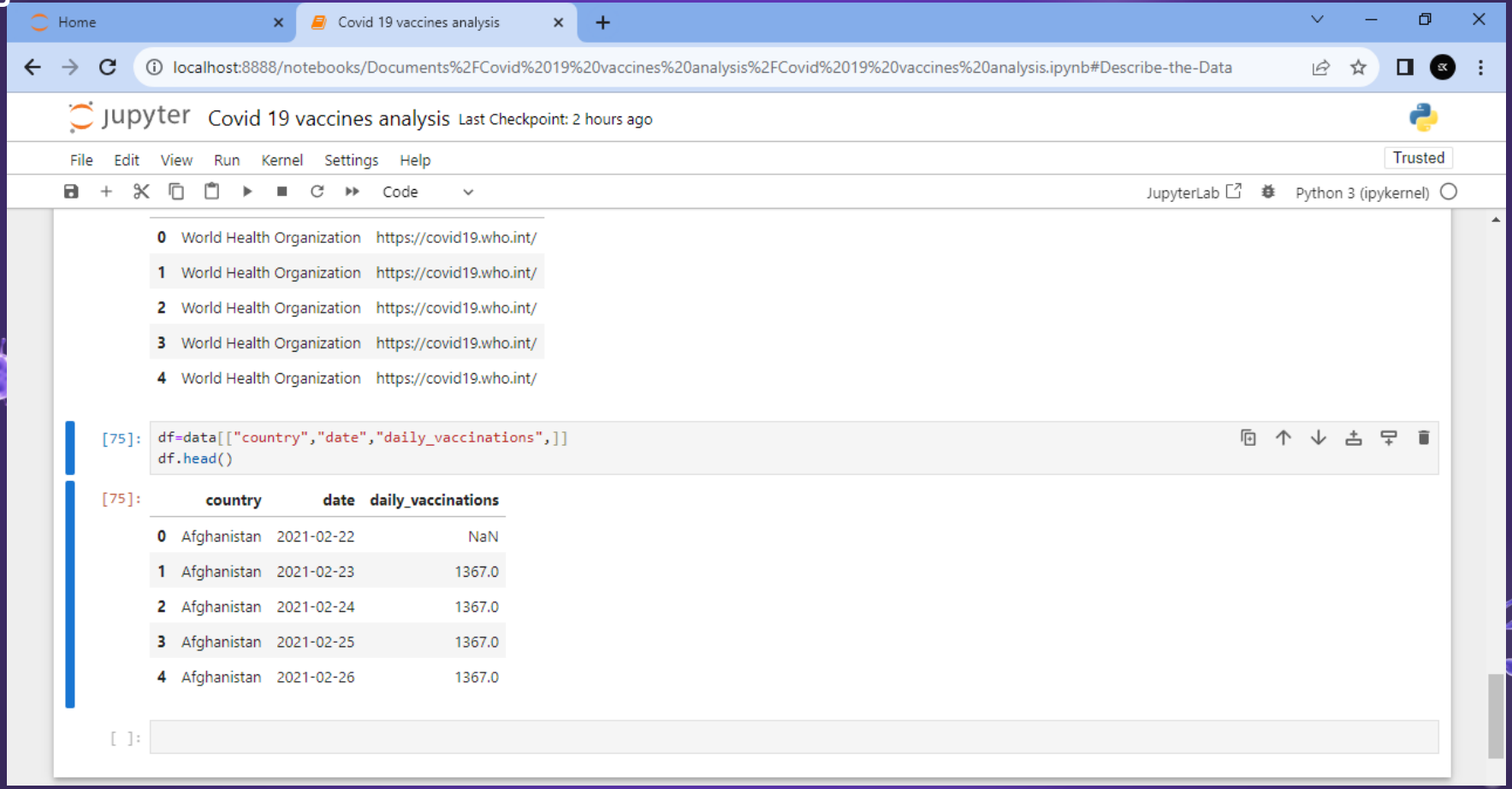
[34]:
```
plt.xlabel("vaccines")
plt.ylabel("country")
plt.plot(data.vaccines.value_counts())
plt.show()
```



The Fig.7 is refer to the vaccines and value of vaccines counts in the Fig.7 so there are line plot graph for the vaccines and value of vaccines counts in this graph.

Data of country and date with daily vaccination

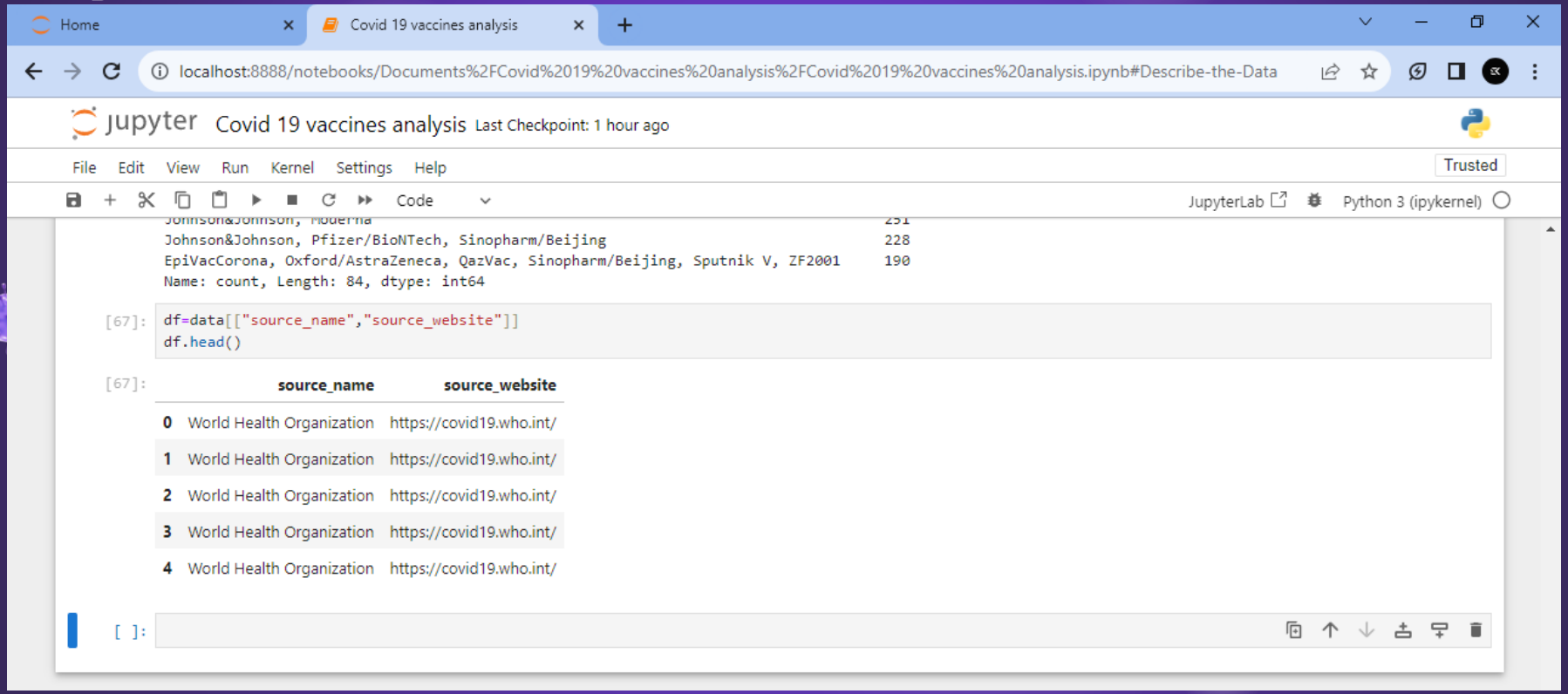
Fig.8



The Fig.8 is refer to the country and date with daily vaccination in Fig.8. there are country name and date with the daily vaccination in Fig.8

Data of Source name and source website

Fig.9



The Fig.9 is refer to the Data of source name and source websites in Fig.9

The source name

World Health Organization

The source websites

https://covid19.who.int/

The Data is Collected and pre-processed the Covid-19 vaccine data is analyzed. Then matplotlib to line plot graph used to analyzed the Covid-19 vaccines analysis