

✓ Module 7: Data Wrangling With Pandas

CPE 311: Computational Thinking with Python

Submitted By: Calingo, Christian Lei S.

Performed On: March 20, 2024

Submitted On: March 20, 2024

Submitted To: Engr. Roman M. Richard

7.1 Supplementary Activity

Using the datasets provided, perform the following exercises

Exercise 1

We want to look at data for the Facebook, Apple, Amazon, Netflix, and Google (FAANG) stocks, but we were given each as a separate CSV file. Combine them into a single file and store the dataframe of the FAANG data as faang for the rest of the exercises.

1. Read each file in.
2. Add a column to each dataframe, called ticker, indicating the ticker symbol it is for (Apple's is AAPL, for example). This is how you look up a stock. Each file's name is also the ticker symbol, so be sure to capitalize it.
3. Append them together into a single dataframe.
4. Save the result in a CSV file called faang.csv

1. Read each file in

```
import pandas as pd
apple = pd.read_csv('data/aapl.csv') #importing our csv file
```

```
import pandas as pd
amazon = pd.read_csv('data/amzn.csv') #importing our csv file
```

```
import pandas as pd
facebook = pd.read_csv('data/fb.csv') #importing our csv file
```

```
import pandas as pd
google = pd.read_csv('data/goog.csv') #importing our csv file
```

```
import pandas as pd
netflix = pd.read_csv('data/nflx.csv') #importing our csv file
```


2. Add a column to each dataframe, called ticker, indicating the ticker symbol it is for (Apple's is AAPL, for example). This is how you look up a stock. Each file's name is also the ticker symbol, so be sure to capitalize it.

```
apple.loc[:, "ticker"] = "AAPL"
apple.head()
```

	date	open	high	low	close	volume	ticker
0	2018-01-02	166.9271	169.0264	166.0442	168.9872	25555934	AAPL
1	2018-01-03	169.2521	171.2337	168.6929	168.9578	29517899	AAPL
2	2018-01-04	169.2619	170.1742	168.8106	169.7426	22434597	AAPL
3	2018-01-05	170.1448	172.0381	169.7622	171.6751	23660018	AAPL
4	2018-01-08	171.0375	172.2736	170.6255	171.0375	20567766	AAPL

Next steps: [View recommended plots](#)

```
amazon.loc[:, "ticker"] = "AMZN"
amazon.head()
```

	date	open	high	low	close	volume	ticker	
0	2018-01-02	1172.00	1190.00	1170.51	1189.01	2694494	AMZN	
1	2018-01-03	1188.30	1205.49	1188.30	1204.20	3108793	AMZN	
2	2018-01-04	1205.00	1215.87	1204.66	1209.59	3022089	AMZN	
3	2018-01-05	1217.51	1229.14	1210.00	1229.14	3544743	AMZN	
4	2018-01-08	1236.00	1253.08	1232.03	1246.87	4279475	AMZN	

Next steps: [View recommended plots](#)

```
facebook.loc[:, "ticker"] = "FB"
facebook.head()
```

	date	open	high	low	close	volume	ticker	
0	2018-01-02	177.68	181.58	177.5500	181.42	18151903	FB	
1	2018-01-03	181.88	184.78	181.3300	184.67	16886563	FB	
2	2018-01-04	184.90	186.21	184.0996	184.33	13880896	FB	
3	2018-01-05	185.59	186.90	184.9300	186.85	13574535	FB	
4	2018-01-08	187.20	188.90	186.3300	188.28	17994726	FB	

Next steps: [View recommended plots](#)

```
google.loc[:, "ticker"] = "GOOG"
google.head()
```

	date	open	high	low	close	volume	ticker	
0	2018-01-02	1048.34	1066.94	1045.23	1065.00	1237564	GOOG	
1	2018-01-03	1064.31	1086.29	1063.21	1082.48	1430170	GOOG	
2	2018-01-04	1088.00	1093.57	1084.00	1086.40	1004605	GOOG	
3	2018-01-05	1094.00	1104.25	1092.00	1102.23	1279123	GOOG	
4	2018-01-08	1102.23	1111.27	1101.62	1106.94	1047603	GOOG	

Next steps: [View recommended plots](#)

```
netflix.loc[:, "ticker"] = "NFLX"
netflix.head()
```

	date	open	high	low	close	volume	ticker	
0	2018-01-02	196.10	201.65	195.4200	201.07	10966889	NFLX	
1	2018-01-03	202.05	206.21	201.5000	205.05	8591369	NFLX	
2	2018-01-04	206.20	207.05	204.0006	205.63	6029616	NFLX	
3	2018-01-05	207.25	210.02	205.5900	209.99	7033240	NFLX	
4	2018-01-08	210.02	212.50	208.4400	212.05	5580178	NFLX	

Next steps: [View recommended plots](#)

3. Append them together into a single dataframe.

```
faang = pd.concat([apple, amazon, facebook, google, netflix])
faang
```

	date	open	high	low	close	volume	ticker	
0	2018-01-02	166.9271	169.0264	166.0442	168.9872	25555934	AAPL	
1	2018-01-03	169.2521	171.2337	168.6929	168.9578	29517899	AAPL	
2	2018-01-04	169.2619	170.1742	168.8106	169.7426	22434597	AAPL	
3	2018-01-05	170.1448	172.0381	169.7622	171.6751	23660018	AAPL	
4	2018-01-08	171.0375	172.2736	170.6255	171.0375	20567766	AAPL	
...	
246	2018-12-24	242.0000	250.6500	233.6800	233.8800	9547616	NFLX	
247	2018-12-26	233.9200	254.5000	231.2300	253.6700	14402735	NFLX	
248	2018-12-27	250.1100	255.5900	240.1000	255.5650	12235217	NFLX	
249	2018-12-28	257.9400	261.9144	249.8000	256.0800	10987286	NFLX	
250	2018-12-31	260.1600	270.1001	260.0000	267.6600	13508920	NFLX	

1255 rows × 7 columns

Next steps:

 [View recommended plots](#)**4. Save the result in a CSV file called faang.csv**

```
faang.to_csv('data/faang.csv', index = False)
```

Exercise 2

1. With faang, use type conversion to change the date column into a datetime and the volume column into integers. Then sort by date and ticker.
2. Find the seven rows with the highest value for volume
3. Right now, the data is somewhere between long and wide format. Use melt() to make it completely long format. Hint: date and ticker are our ID variables (they uniquely identify each row). We need to melt the rest so that we don't have separate columns for open, high, low close and volume.

1. With faang, use type conversion to change the date column into a datetime and the volume column into integers. Then sort by date and ticker.

```
faang['date'] = pd.to_datetime(faang['date'])
faang.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1255 entries, 0 to 250
Data columns (total 7 columns):
#   Column  Non-Null Count  Dtype
---  -
0   date    1255 non-null   datetime64[ns]
1   open    1255 non-null   float64
2   high    1255 non-null   float64
3   low     1255 non-null   float64
4   close   1255 non-null   float64
5   volume  1255 non-null   int64
6   ticker  1255 non-null   object
dtypes: datetime64[ns](1), float64(4), int64(1), object(1)
memory usage: 110.7+ KB
```

```
faang = faang.sort_values(by = ['date', 'ticker'])
faang
```

	date	open	high	low	close	volume	ticker	
0	2018-01-02	166.9271	169.0264	166.0442	168.9872	25555934	AAPL	
0	2018-01-02	1172.0000	1190.0000	1170.5100	1189.0100	2694494	AMZN	
0	2018-01-02	177.6800	181.5800	177.5500	181.4200	18151903	FB	
0	2018-01-02	1048.3400	1066.9400	1045.2300	1065.0000	1237564	GOOG	
0	2018-01-02	196.1000	201.6500	195.4200	201.0700	10966889	NFLX	
...	
250	2018-12-31	157.8529	158.6794	155.8117	157.0663	35003466	AAPL	
250	2018-12-31	1510.8000	1520.7600	1487.0000	1501.9700	6954507	AMZN	
250	2018-12-31	134.4500	134.6400	129.9500	131.0900	24625308	FB	
250	2018-12-31	1050.9600	1052.7000	1023.5900	1035.6100	1493722	GOOG	
250	2018-12-31	260.1600	270.1001	260.0000	267.6600	13508920	NFLX	

1255 rows × 7 columns

Next steps:



 [View recommended plots](#)**2. Find the seven rows with the highest value for volume**

```
faang.nlargest(7,['volume'])
```

	date	open	high	low	close	volume	ticker	
142	2018-07-26	174.8900	180.1300	173.7500	176.2600	169803668	FB	
53	2018-03-20	167.4700	170.2000	161.9500	168.1500	129851768	FB	
57	2018-03-26	160.8200	161.1000	149.0200	160.0600	126116634	FB	
54	2018-03-21	164.8000	173.4000	163.3000	169.3900	106598834	FB	
182	2018-09-21	219.0727	219.6482	215.6097	215.9768	96246748	AAPL	
245	2018-12-21	156.1901	157.4845	148.9909	150.0862	95744384	AAPL	
212	2018-11-02	207.9295	211.9978	203.8414	205.8755	91328654	AAPL	

3. Right now, the data is somewhere between long and wide format. Use `melt()` to make it completely long format. Hint: `date` and `ticker` are our ID variables (they uniquely identify each row). We need to melt the rest so that we don't have separate columns for open, high, low close and volume.

```
faang = pd.melt(faang, id_vars = ['date', 'ticker'], value_vars = ['open', 'high', 'low', 'close', 'volume'])
faang
```

	date	ticker	variable	value	
0	2018-01-02	AAPL	open	1.669271e+02	
1	2018-01-02	AMZN	open	1.172000e+03	
2	2018-01-02	FB	open	1.776800e+02	
3	2018-01-02	GOOG	open	1.048340e+03	
4	2018-01-02	NFLX	open	1.961000e+02	
...	
6270	2018-12-31	AAPL	volume	3.500347e+07	
6271	2018-12-31	AMZN	volume	6.954507e+06	
6272	2018-12-31	FB	volume	2.462531e+07	
6273	2018-12-31	GOOG	volume	1.493722e+06	
6274	2018-12-31	NFLX	volume	1.350892e+07	

6275 rows × 4 columns

Next steps:

[View recommended plots](#)

✓ Exercise 3

1. Using web scraping, search for the list of the hospitals, their address and contact information. Save the list in a new csv file, hospital.csv
2. Using the generated hospitals.csv, convert the csv file into pandas dataframe. Prepare the data using the necessary preprocessing techniques

-
1. Using web scraping, search for the list of the hospitals, their address and contact information. Save the list in a new csv file, hospital.csv

```
from bs4 import BeautifulSoup
import requests
```

```
url = 'https://en.wikipedia.org/wiki/List_of_hospitals_in_the_Philippines?fbclid=IwAR3t1pYW_R1fYSs4u1BigxwEM2aSjoPBcQcN7wbd-_u-hbrcmXwRZNVC'
page = requests.get(url)
soup = BeautifulSoup(page.text, 'html')
```

```
print(soup)
```

```
<li><a href="/wiki/List_of_hospitals_in_Russia" title="List of hospitals in Russia">Russia</a></li>
```

```
soup.find_all('table')
```

```
noopener" target="_blank">http://www.saintanthony.com.ph/</a></td><tr><td><a href="https://www.facebook.com/St-Anthony-Medical-Center-of-Marikina-Inc-897333707012810/" rel="noopener noopener" target="_blank">https://www.facebook.com/St-Anthony-Medical-Center-of-Marikina-Inc-897333707012810/</a></td><tr><td>Muntinlupa</td><td>Asian Hospital and Medical Center</td><td>8771 9000</td><td>https://www.asianhospital.com/</td><td>https://www.facebook.com/AsianHospitalPH/</td><tr><td>Muntinlupa</td><td>Medical Center Muntinlupa</td><td>8861 1687</td><td><a href="https://www.facebook.com/MCMIOfficial/" rel="noopener noopener" target="_blank">https://www.facebook.com/MCMIOfficial/</a></td><tr><td>Muntinlupa</td><td>Ospital ng Muntinlupa</td><td>8771 0457, 77104- 56 up to 63</td><td><a href="https://www.facebook.com/OSMUNOFFICIAL" rel="noopener noopener" target="_blank">https://www.facebook.com/OSMUNOFFICIAL/</a></td><tr><td>Muntinlupa</td><td>RITM</td><td>8807 2628, 8807 2632, 8072631/32/37</td><td><a href="http://ritm.gov.ph/?fbclid=IwAR3vGbkXUapS-tvDYkVTivib9KTldk56m2AmX08xTj8Zn2hDE-gl3EnWvmM" rel="noopener noopener" target="_blank">http://ritm.gov.ph/</a></td><td><a href="https://www.facebook.com/RITMPH/" rel="noopener noopener" target="_blank">https://www.facebook.com/RITMPH/</a></td><tr><td>Paranaque</td><td>Medical Center Paranaque</td><td>8825 6911, 8826 2096</td><td><a href="http://www.medicalcenterparanaque.com/index.htm?fbclid=IwAR1xSkKTCBwpqFvNjpaybomm5F-gkxkRIFTMSR3ZuG48Ub9TcGGpZ0Lz64" rel="noopener noopener" target="_blank">http://www.medicalcenterparanaque.com/index.htm?fbclid=IwAR1xSkKTCBwpqFvNjpaybomm5F-gkxkRIFTMSR3ZuG48Ub9TcGGpZ0Lz64</a></td><tr><td><a href="https://www.facebook.com/Medical-Center-Para%C3%B1ague-Inc-2377022169197523/" rel="noopener noopener" target="_blank">https://www.facebook.com/Medical-Center-Para%C3%B1ague-Inc-2377022169197523/</a></td><tr><td>Paranaque</td><td>South Superhighway Medical Center</td><td>8823 4344</td><td><a href="https://www.facebook.com/ThePremierMedicalCenter/" rel="noopener noopener" target="_blank">https://www.facebook.com/ThePremierMedicalCenter/</a></td><tr><td>Paranaque</td><td>Paranaque Doctors Hospital</td><td>8776 0644</td><td><a href="https://www.facebook.com/paranaquedoctors" rel="noopener noopener" target="_blank">https://www.facebook.com/paranaquedoctors/</a></td><tr><td>Paranaque</td><td>UniHealth Paranaque</td><td>8832 0636, 8832 0641</td><td><a href="http://unihealthparanaque.com/?fbclid=IwAR00GTYaN7RUBdgVShSlTKY9a6XdyqboX3-yJa1_hYKT0P1-QeLj_nf3nw" rel="noopener noopener" target="_blank">http://unihealthparanaque.com/?fbclid=IwAR00GTYaN7RUBdgVShSlTKY9a6XdyqboX3-yJa1\_hYKT0P1-QeLj\_nf3nw</a></td><td><a href="https://www.facebook.com/unihealthparanaque/" rel="noopener noopener" target="_blank">https://www.facebook.com/unihealthparanaque/</a></td><tr><td>Pasay</td><td>Adventist Medical Center Manila</td><td>8525 9191 loc 141, 0966 894 1456</td><td><a href="https://www.facebook.com/AdventistMedPh" rel="noopener noopener" target="_blank">https://www.facebook.com/AdventistMedPh/</a></td><tr><td>Pasay</td><td>Air Force Gen Hospital</td><td>8853 5056, 8853 5043</td><td><a href="https://www.facebook.com/AFGHHEALER" rel="noopener noopener" target="_blank">https://www.facebook.com/AFGHHEALER/</a></td><tr><td>Pasay</td><td>Pasay City General Hospital</td><td>8833 6022, 8831 3285, 8551 3735</td><td><a href="https://www.facebook.com/PasayCityGenHospital/" rel="noopener noopener" target="_blank">https://www.facebook.com/PasayCityGenHospital/</a></td><tr><td>Pasay</td><td>San Juan de Dios Hospital</td><td>8831 9731-36</td><td><a href="http://sanjuandedios.org/?fbclid=IwAR1CBcUdAyg14YMhNG_nx1RNoj2MxkVUINbcNiX7pdgIUyMTxTF4eL9MLEw" rel="noopener noopener" target="_blank">http://sanjuandedios.org/?fbclid=IwAR1CBcUdAyg14YMhNG\_nx1RNoj2MxkVUINbcNiX7pdgIUyMTxTF4eL9MLEw</a></td><td><a href="https://www.facebook.com/SJDEFIHospital/" rel="noopener noopener" target="_blank">https://www.facebook.com/SJDEFIHospital/</a></td><tr><td>Pasig</td><td>Pasig City Children's Hospital</td><td>8643 2222</td><td><a href="http://www.pasigdoctors.ph/?fbclid=IwAR3lv9CPNTvmU8A1swr2F-m-dBVS1MnSmDdv97vV-LoCzPu3DmjgkHxkv164" rel="noopener noopener" target="_blank">http://www.pasigdoctors.ph/?fbclid=IwAR3lv9CPNTvmU8A1swr2F-m-dBVS1MnSmDdv97vV-LoCzPu3DmjgkHxkv164</a></td><td><a href="https://www.facebook.com/pasigdoctorsMC/" rel="noopener noopener" target="_blank">https://www.facebook.com/pasigdoctorsMC/</a></td><tr><td>Pasig</td><td>Pasig City General Hospital</td><td>8642 7381, 8642 7380</td><td><a href="https://www.facebook.com/rmc.doh.gov.ph/" rel="noopener noopener" target="_blank">https://www.facebook.com/rmc.doh.gov.ph/</a></td><tr><td>Pasig</td><td>National Center for Mental Health</td><td>8531 9001 (covid/pav 2), 1553, 0908 639 2672, 0917-899-USAP (8727) o 7-989-USAP (8727), 0966 351 4518</td><td><a href="http://ncmh.gov.ph/?fbclid=IwAR17fSJTPMNVIERiOH9_QSOnB5ePMtUrEydKxfuf9ykZrCPJNp2HIar-czk" rel="noopener noopener" target="_blank">http://ncmh.gov.ph/?fbclid=IwAR17fSJTPMNVIERiOH9\_QSOnB5ePMtUrEydKxfuf9ykZrCPJNp2HIar-czk</a></td><td><a href="https://www.facebook.com/NCMHgovph" rel="noopener noopener" target="_blank">https://www.facebook.com/NCMHgovph/</a></td><tr><td>Pasig</td><td>St Camillus Medical Center</td><td>8645 3742, 8645 3741, 8682 0366</td><td><a href="http://www.stcamillusmedicalcenterpasig.com/?fbclid=IwAR0k4MLBMWZY1-BFX70sZBnFup06EwQ57rn2pKYN3HjBkqmK1RvqLJpEvXU" rel="noopener noopener" target="_blank">http://www.stcamillusmedicalcenterpasig.com/?fbclid=IwAR0k4MLBMWZY1-BFX70sZBnFup06EwQ57rn2pKYN3HjBkqmK1RvqLJpEvXU</a></td><td><a href="https://www.facebook.com/stcamillusmedicalcenter/" rel="noopener noopener" target="_blank">https://www.facebook.com/stcamillusmedicalcenter/</a></td><tr><td>Pasig</td><td>The Medical City</td><td>8988 1000, 8635-6789, 8631-8926, 8988-7000</td><td>https://www.themedicalcity.com/</td><tr><td>Tricity Medical Center</td><td>Tricity Medical Center</td><td>8662 9277, 0917 515 2453, 8275 9752</td><td><a href="http://www.tricitymedicalcenter.com.ph/?fbclid=IwAR1ByppDnktBAGUatSlm8vV12vAmIKbDA9KJlnJPVmtKXJB0j1Y7gS_wcu" rel="noopener noopener" target="_blank">http://www.tricitymedicalcenter.com.ph/?fbclid=IwAR1ByppDnktBAGUatSlm8vV12vAmIKbDA9KJlnJPVmtKXJB0j1Y7gS\_wcu</a></td><td><a href="https://www.facebook.com/tricitymedicalcenterofficialpage/" rel="noopener noopener" target="_blank">https://www.facebook.com/tricitymedicalcenterofficialpage/</a></td><tr><td>Pateros</td><td>Allied Care Experts Medical Center</td><td>8875 8677, 8706 9398</td><td><a href="https://www.facebook.com/acemedicalcenterpateros/" rel="noopener noopener" target="_blank">https://www.facebook.com/acemedicalcenterpateros/</a></td><tr><td>San Juan</td><td>Cardinal Santos Medical Center</td><td>8727 0001 loc 3005, 8725 0001</td><td><a href="https://cardinalsantos.com.ph/" rel="noopener noopener" target="_blank">https://cardinalsantos.com.ph/</a></td><td><a href="https://www.facebook.com/search/top?q=Cardinal%20Santos%20Medical%20Center" rel="noopener noopener" target="_blank">https://www.facebook.com/search/top?q=Cardinal%20Santos%20Medical%20Center</a></td></tr>
```

```
table = soup.find('table', class_ = 'wikitable')
```

```
hospitals = table.find_all('th')
hospitals
print(hospitals)
```

```
[<th>Name of Hospital
</th>, <th>Location
</th>, <th>Class
</th>]
```

```
hospitals= pd.DataFrame(columns = [title.text.strip() for title in hospitals])
hospitals
```

```
Name of Hospital Location Class
```



```

column_data = table.find_all('tr')
print(column_data)

</td>
<td>677 Geronimo St., cor. Carola St., Sampaloc, Manila
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td>Navotas City Hospital
</td>
<td>M. Naval St., Brgy. San Jose, Navotas City
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td>Ospital ng Parañaque
</td>
<td>0440 Quirino Ave., La Huerta, Parañaque City
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td>Ospital ng Parañaque District II
</td>
<td>187 Taiwan Extension Corner Doña Soledad Avenue, Don Bosco, Parañaque City
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td>Novaliches District Hospital
</td>
<td>Quirino Highway, San Bartolome, Novaliches, Quezon City
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td>San Juan Medical Center
</td>
<td>N. Domingo St., San Juan City
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td>Army General Hospital
</td>
<td>Fort Andres Bonifacio, Taguig City
</td>
<td>AFP
</td></tr>, <tr style="vertical-align:middle;">
<td>Manila Naval Hospital
</td>
<td>Naval Station, Jose Francisco, Fort Bonifacion, Taguig City
</td>
<td>AFP
</td></tr>, <tr style="vertical-align:middle;">
<td>Taguig-Pateros District Hospital
</td>
<td>East Service Road, Western Bicutan, Taguig
</td>
<td>LGU
</td></tr>, <tr style="vertical-align:middle;">
<td><a href="/wiki/Santa_Ana_Hospital,_Manila" title="Santa Ana Hospital, Manila">Santa Ana Hospital</a>
</td>
<td>New Panaderos St., Sta. Ana, Manila
</td>
<td>LGU

```

```

for row in column_data:
    row_data = row.find_all('td')
    individual_row = [data.text.strip() for data in row_data]
    print(individual_row)

```

```



[]
['Caloocan City Medical Center', '450 A. Mabini St., Caloocan City', 'LGU']
['Ospital ng Malabon', 'F. Sevilla Boulevard, Tañong, Malabon City', 'LGU']
['San Lorenzo Ruiz General Hospital', 'O. Reyes St., Rosita Subdivision, Santulan, Malabon City', 'DOH Retained']
['Gat Andres Bonifacio Memorial Medical Center', '8001 Delpan St., Tondo, Manila', 'LGU']
['Ospital ng Tondo', 'Jose Abad Santos Avenue, Tondo, Manila', 'LGU']
['Justice Jose Abad Santos General Hospital', 'Numancia St., Binondo, Manila', 'LGU']
['Ospital ng Sampaloc', '677 Geronimo St., cor. Carola St., Sampaloc, Manila', 'LGU']
['Navotas City Hospital', 'M. Naval St., Brgy. San Jose, Navotas City', 'LGU']
['Ospital ng Parañaque', '0440 Quirino Ave., La Huerta, Parañaque City', 'LGU']
['Ospital ng Parañaque District II', '187 Taiwan Extension Corner Doña Soledad Avenue, Don Bosco, Parañaque City', 'LGU']
['Novaliches District Hospital', 'Quirino Highway, San Bartolome, Novaliches, Quezon City', 'LGU']
['San Juan Medical Center', 'N. Domingo St., San Juan City', 'LGU']
['Army General Hospital', 'Fort Andres Bonifacio, Taguig City', 'AFP']
['Manila Naval Hospital', 'Naval Station, Jose Francisco, Fort Bonifacion, Taguig City', 'AFP']

```

```
[ 'Taguig-Pateros District Hospital', 'East Service Road, Western Bicutan, Taguig', 'LGU' ]
[ 'Santa Ana Hospital', 'New Panaderos St., Sta. Ana, Manila', 'LGU' ]
[ 'Mandaluyong City Medical Center', '605 Boni Avenue, Mandaluyong City', 'LGU' ]
[ 'Air Force General Hospital', 'Gozar St., Colonel Jesus Villamor Air Base, Pasay City', 'PAF' ]
[ 'Pasig City Children's Hospital – Child's Hope', 'Industria St. cor. Alcalde Jose St., Kapasigan, Pasig City', 'LGU' ]
[ 'PNP General Hospital', 'Camp Crame, Quezon City', 'PNP' ]
[ 'Rosario Macalang Bautista General Hospital', 'IBP Road, Batasan Hills, District 2, Quezon City', 'LGU' ]
[ 'Dr. Jose N. Rodriguez Memorial Hospital and Sanitarium', 'St. Joseph Avenue (Dr. Uyguanco Street), Tala, Caloocan City', 'DOH Retaine' ]
[ 'Las Piñas General Hospital and Satellite Trauma Center', 'Bernabe Compound, Pulanglupa, Las Piñas City', 'DOH Retained' ]
[ 'Dr. Jose Fabella Memorial Hospital', 'Lope de Vega St., Sta. Cruz, Manila', 'DOH Retained' ]
[ 'Jose R. Reyes Memorial Medical Center', 'San Lazaro Compound, Rizal Avenue, Sta. Cruz, Manila', 'DOH Retained' ]
[ 'San Lazaro Hospital', 'Quiricada St., Sta. Cruz, Manila', 'DOH Retained' ]
[ 'Tondo Medical Center', 'Honorio Lopez Boulevard., Balut, Tondo, Manila', 'DOH Retained' ]
[ 'Philippine General Hospital', 'Taft Avenue, Ermita, Manila', 'University' ]
[ 'Ospital ng Maynila Medical Center', 'Pres. Quirino Avenue, cor. Roxas Blvd., Malate, Manila', 'LGU' ]
[ 'National Center for Mental Health', '#9 De Febrero St., Mandaluyong City', 'DOH Retained' ]
[ 'Ospital ng Makati', 'Sampaguita St. cor. Gumamela St., Brgy. Pembo, Makati City', 'LGU' ]
[ 'Amang Rodriguez Memorial Medical Center', 'Sumulong Highway, Brgy. Sto. Niño, Marikina City', 'DOH Retained' ]
[ 'Ospital ng Muntinlupa', 'Civic Drive, Filinvest Corporate City, Alabang, Muntinlupa City', 'LGU' ]
[ 'Research Institute for Tropical Medicine', 'Filinvest Corporate City, Alabang, Muntinlupa City', 'DOH Retained' ]
[ 'Pasay City General Hospital', 'P. Burgos St., Pasay City', 'LGU' ]
[ 'Rizal Medical Center', 'Pasig Boulevard, Bagong Ilog, Pasig City', 'DOH Retained' ]
[ 'Pasig City General Hospital', 'M. Eusebio Avenue, Maybunga, Pasig City', 'LGU' ]
[ 'Veterans Memorial Medical Center', 'North Avenue, Diliman, Quezon City', 'DND' ]
[ 'Philippine Heart Center', 'East Avenue, Diliman, Quezon City', 'GOCC' ]
[ 'National Kidney and Transplant Institute', 'East Avenue, Diliman, Quezon City', 'GOCC' ]
[ 'Philippine Children's Medical Center', 'Quezon Avenue corner Senator Miriam P. Defensor-Santiago Avenue, Diliman, Quezon City', 'GOCC' ]
[ 'Victoriano Luna Medical Center', 'V. Luna Road, Quezon City', 'AFP' ]
[ 'East Avenue Medical Center', 'East Avenue, Quezon City', 'DOH Retained' ]
[ 'Philippine Orthopedic Center', 'Ma. Clara St. cor. Banawe St., Quezon City', 'DOH Retained' ]
[ 'Quezon City General Hospital', 'Seminary Road, EDSA, Quezon City', 'LGU' ]
[ 'Lung Center of the Philippines', 'Quezon Avenue, Quezon City', 'GOCC' ]
[ 'National Children's Hospital', '#226 E. Rodriguez Sr. Boulevard, Quezon City', 'DOH Retained' ]
[ 'Quirino Memorial Medical Center', 'Katipunan Road, Project 4, Quezon City', 'DOH Retained' ]
[ 'Valenzuela Medical Center', 'Padrigal St., Karuhatan, Valenzuela City', 'DOH Retained' ]
```

```
for row in table.find_all('tr')[1:]:
    data = row.find_all('td')
    results = [datas.text.strip() for datas in data]
    hospitals.loc[len(hospitals)] = results
```

```
hospitals
```


	Name of Hospital	Location	Class		
0	Caloocan City Medical Center	450 A. Mabini St., Caloocan City	LGU		
1	Ospital ng Malabon	F. Sevilla Boulevard, Tañong, Malabon City	LGU		
2	San Lorenzo Ruiz General Hospital	O. Reyes St., Rosita Subdivision, Santulan, Ma...	DOH Retained		
3	Gat Andres Bonifacio Memorial Medical Center	8001 Delpan St., Tondo, Manila	LGU		
4	Ospital ng Tondo	Jose Abad Santos Avenue, Tondo, Manila	LGU		
5	Justice Jose Abad Santos General Hospital	Numancia St., Binondo, Manila	LGU		
6	Ospital ng Sampaloc	677 Geronimo St., cor. Carola St., Sampaloc, M...	LGU		
7	Navotas City Hospital	M. Naval St., Brgy. San Jose, Navotas City	LGU		
8	Ospital ng Parañaque	0440 Quirino Ave., La Huerta, Parañaque City	LGU		
9	Ospital ng Parañaque District II	187 Taiwan Extension Corner Doña Soledad Avenu...	LGU		
10	Novaliches District Hospital	Quirino Highway, San Bartolome, Novaliches, Qu...	LGU		
11	San Juan Medical Center	N. Domingo St., San Juan City	LGU		
12	Army General Hospital	Fort Andres Bonifacio, Taguig City	AFP		
13	Manila Naval Hospital	Naval Station, Jose Francisco, Fort Bonifacion...	AFP		
14	Taguig-Pateros District Hospital	East Service Road, Western Bicutan, Taguig	LGU		
15	Santa Ana Hospital	New Panaderos St., Sta. Ana, Manila	LGU		
16	Mandaluyong City Medical Center	605 Boni Avenue, Mandaluyong City	LGU		
17	Air Force General Hospital	Gozar St., Colonel Jesus Villamor Air Base, Pa...	PAF		
18	Pasig City Children's Hospital – Child's Hope	Industria St. cor. Alcalde Jose St., Kapasigan...	LGU		
19	PNP General Hospital	Camp Crame, Quezon City	PNP		
20	Rosario Maclang Bautista General Hospital	IBP Road, Batasan Hills, District 2, Quezon City	LGU		
21	Dr. Jose N. Rodriguez Memorial Hospital and Sa...	St. Joseph Avenue (Dr. Uyguanco Street), Tala,...	DOH Retained		
22	Las Piñas General Hospital and Satellite Traum...	Bernabe Compound, Pulanglupa, Las Piñas City	DOH Retained		
23	Dr. Jose Fabella Memorial Hospital	Lope de Vega St., Sta. Cruz, Manila	DOH Retained		
24	Jose R. Reyes Memorial Medical Center	San Lazaro Compound, Rizal Avenue, Sta. Cruz, ...	DOH Retained		
25	San Lazaro Hospital	Quiricada St., Sta. Cruz, Manila	DOH Retained		
26	Tondo Medical Center	Honorio Lopez Boulevard., Balut, Tondo, Manila	DOH Retained		
27	Philippine General Hospital	Taft Avenue, Ermita, Manila	University		
28	Ospital ng Maynila Medical Center	Pres. Quirino Avenue, cor. Roxas Blvd., Malate...	LGU		
29	National Center for Mental Health	#9 De Febrero St., Mandaluyong City	DOH Retained		
30	Ospital ng Makati	Sampaguita St. cor. Gumamela St., Brgy. Pembo,...	LGU		
31	Amang Rodriguez Memorial Medical Center	Sumulong Highway, Brgy. Sto. Niño, Marikina City	DOH Retained		
32	Ospital ng Muntinlupa	Civic Drive, Filinvest Corporate City, Alabang...	LGU		
33	Research Institute for Tropical Medicine	Filinvest Corporate City, Alabang, Muntinlupa ...	DOH Retained		
34	Pasay City General Hospital	P. Burgos St., Pasay City	LGU		
35	Rizal Medical Center	Pasig Boulevard, Bagong Ilog, Pasig City	DOH Retained		
36	Pasig City General Hospital	M. Eusebio Avenue, Maybunga, Pasig City	LGU		
37	Veterans Memorial Medical Center	North Avenue, Diliman, Quezon City	DND		
38	Philippine Heart Center	East Avenue, Diliman, Quezon City	GOCC		
39	National Kidney and Transplant Institute	East Avenue, Diliman, Quezon City	GOCC		
40	Philippine Children's Medical Center	Quezon Avenue corner Senator Miriam P. Defenso...	GOCC		
41	Victoriano Luna Medical Center	V. Luna Road, Quezon City	AFP		
42	East Avenue Medical Center	East Avenue, Quezon City	DOH Retained		
43	Philippine Orthopedic Center	Ma. Clara St. cor. Banawe St., Quezon City	DOH Retained		
44	Quezon City General Hospital	Seminary Road, EDSA, Quezon City	LGU		
45	Luna Center of the Philippines	Quezon Avenue, Quezon City	GOCC		