

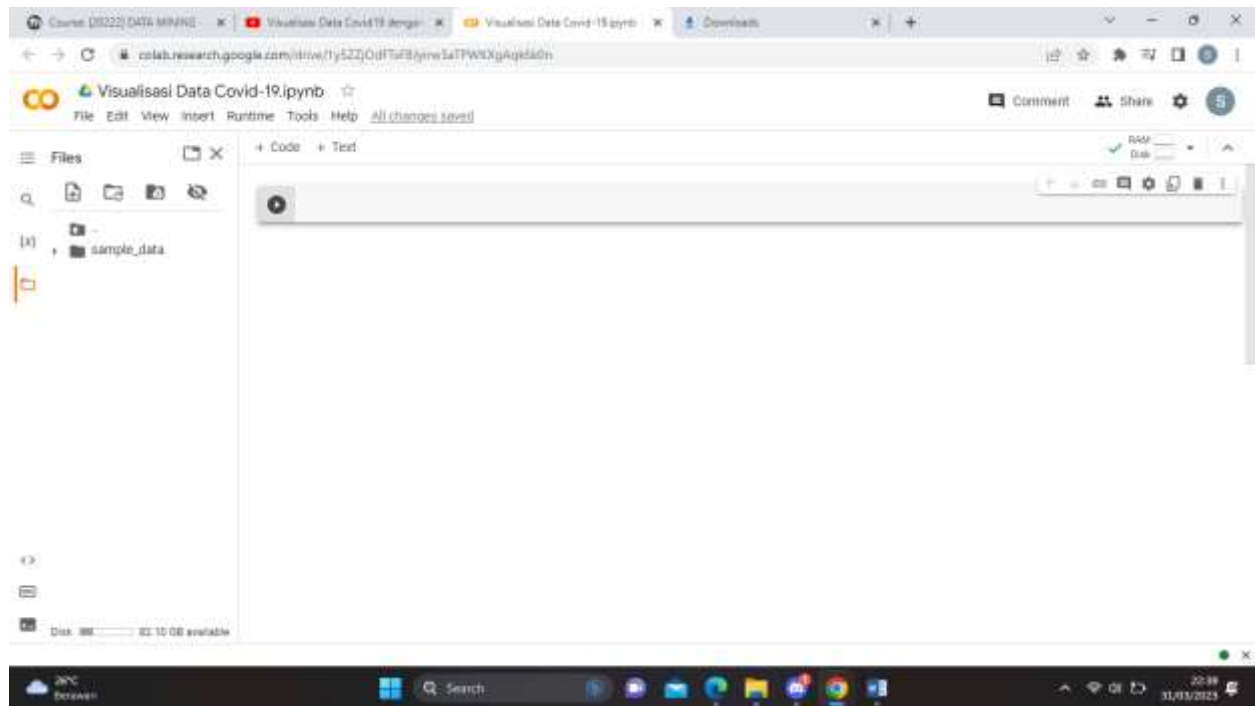
Nama : Shine Vardina Victioria Sudrajat

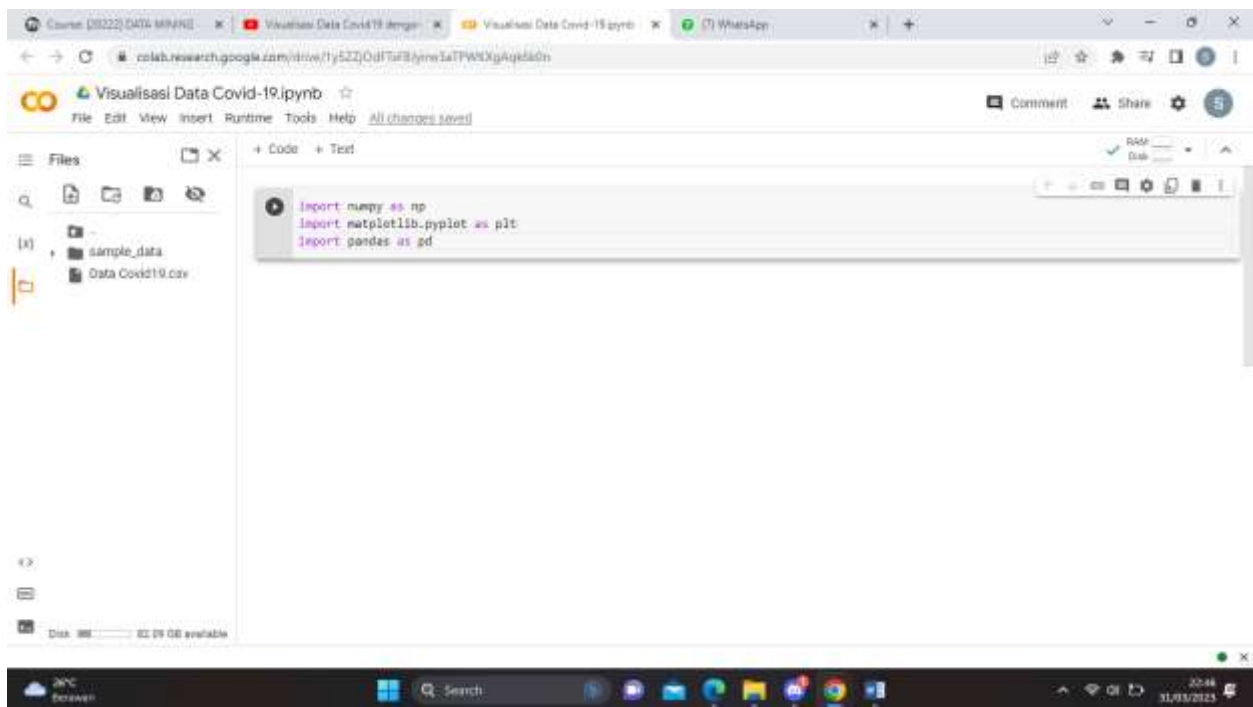
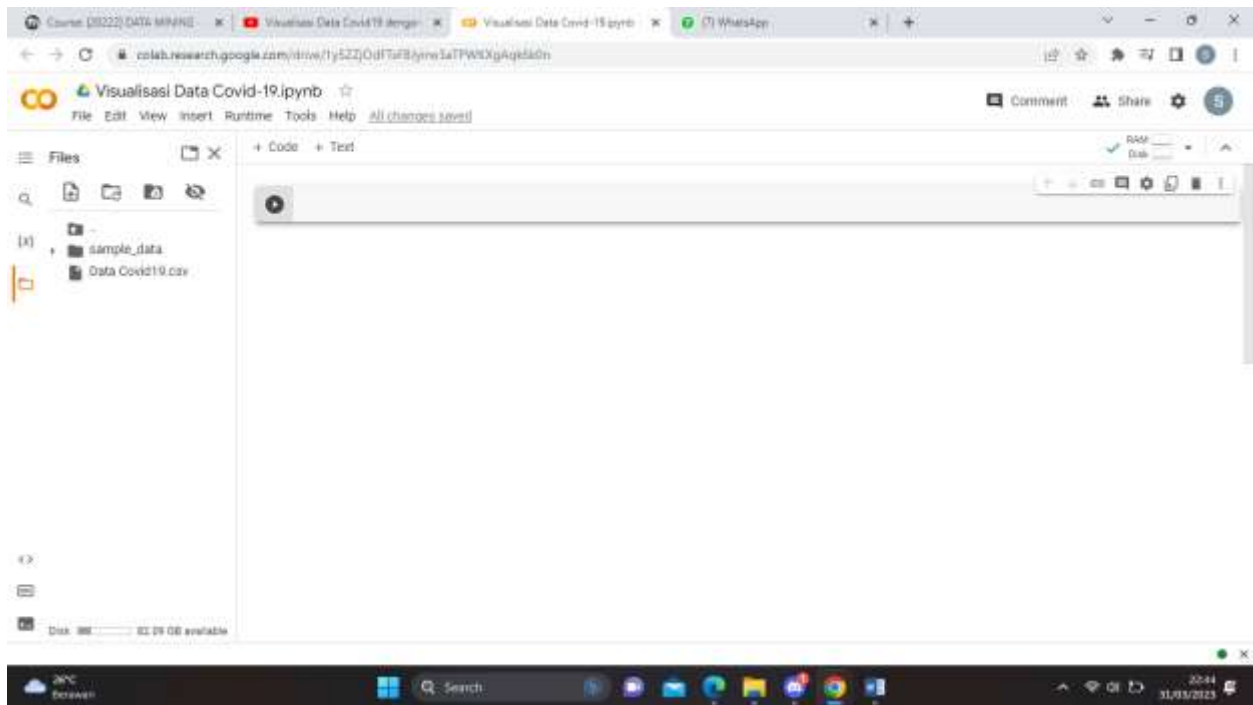
NIM : A11.2020.13189

Kelas : A11.4616

Link Google Colab :

<https://colab.research.google.com/drive/1WJp0bgns1v7Bz00Tcomf72VSmZMUuZZ1?usp=sharing>





Course: [00222] DATA MINING | Visualisasi Data Covid-19 dengan | Visualisasi Data Covid-19 dengan | WhatsApp

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Visualisasi Data Covid-19.ipynb

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Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
```

completed at 10:45 PM

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Visualisasi Data Covid-19.ipynb

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Files

- sample_data
- Data Covid19.csv

```
[1]: import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

data = pd.read_csv("Data Covid19.csv")
data.head()
```

completed at 10:45 PM

Course: [00222] DATA MINING | Visualisasi Data Covid-19 dengan... | Visualisasi Data Covid-19.ipynb | WhatsApp

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Visualisasi Data Covid-19.ipynb

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Files

- sample_data
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```
[1]: import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

data = pd.read_csv("Data Covid19.csv")
data.head()
```

	Province/State	Country/Region	Last update	Confirmed	Deaths	Recovered
0	Anhui	Mainland China	1/22/2020 17:00	1	0	0
1	Beijing	Mainland China	1/22/2020 17:00	14	0	0
2	Chongqing	Mainland China	1/22/2020 17:00	6	0	0
3	Fujian	Mainland China	1/22/2020 17:00	1	0	0
4	Gansu	Mainland China	1/22/2020 17:00	0	0	0

completed at 10:48PM

Course: [00222] DATA MINING | Visualisasi Data Covid-19 dengan... | Visualisasi Data Covid-19.ipynb | WhatsApp

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Visualisasi Data Covid-19.ipynb

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Comment Share

Files

- sample_data
- Data Covid19.csv

```
[1]: import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

[2]: data = pd.read_csv("Data Covid19.csv")
data.head()
```

	Province/State	Country/Region	Last update	Confirmed	Deaths	Recovered
0	Anhui	Mainland China	1/22/2020 17:00	1	0	0
1	Beijing	Mainland China	1/22/2020 17:00	14	0	0
2	Chongqing	Mainland China	1/22/2020 17:00	6	0	0
3	Fujian	Mainland China	1/22/2020 17:00	1	0	0
4	Gansu	Mainland China	1/22/2020 17:00	0	0	0

```
data.info()
```

completed at 10:48PM

Course: [00222] DATA MINING Visualisasi Data Covid-19 dengan Visualisasi Data Covid-19.ipynb WhatsApp

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Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help

Comment Share

Files

- sample_data
- Data Covid19.csv

Code

```
[2] 3 Fujian Mainland China 1/22/2020 17:00 1 0 0
4 Gansu Mainland China 1/22/2020 17:00 0 0 0
```

data.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 236817 entries, 0 to 236816
Data columns (total 6 columns):
 # Column Non-Null Count Dtype
---
 0 Province/State 173972 non-null object
 1 Country/Region 236817 non-null object
 2 Last Update 236817 non-null object
 3 Confirmed 236817 non-null int64
 4 Deaths 236817 non-null int64
 5 Recovered 236817 non-null int64
dtypes: int64(3), object(3)
memory usage: 20.8+ MB
```

completed at 10:49PM

Course: [00222] DATA MINING Visualisasi Data Covid-19 dengan Visualisasi Data Covid-19.ipynb WhatsApp

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Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help

Comment Share

Files

- sample_data
- Data Covid19.csv

Code

```
[2] 3 Fujian Mainland China 1/22/2020 17:00 1 0 0
4 Gansu Mainland China 1/22/2020 17:00 0 0 0
```

[3] data.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 236817 entries, 0 to 236816
Data columns (total 6 columns):
 # Column Non-Null Count Dtype
---
 0 Province/State 173972 non-null object
 1 Country/Region 236817 non-null object
 2 Last Update 236817 non-null object
 3 Confirmed 236817 non-null int64
 4 Deaths 236817 non-null int64
 5 Recovered 236817 non-null int64
dtypes: int64(3), object(3)
memory usage: 20.8+ MB
```

data['Last Update'].unique()

Code Text

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Course: [00222] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

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Visualisasi Data Covid-19.ipynb

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Comment Share 5

Files

- sample_data
- Data Covid19.csv

Code

```
[3]: # Province/State 173972 non-null object
      # Country/Region 210817 non-null object
      # Last Update 210817 non-null object
      # Confirmed 210817 non-null int64
      # Deaths 210817 non-null int64
      # Recovered 210817 non-null int64
      dtypes: int64(3), object(3)
      memory usage: 10.0+ MB
```

data["Last Update"].unique()

```
array(['1/22/2020 17:00', '1/23/20 17:00', '1/24/20 17:00', ...,
      '26/02/2021 05:22', '27/02/2021 05:22', '28/02/2021 05:22'],
      dtype=object)
```

completed at 10:51 PM

Course: [00222] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5Z2jOdITu7BjYnne1aTPWdXgAgeddnPncm8To=6JnVVs800p

Visualisasi Data Covid-19.ipynb

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Comment Share 5

Files

- sample_data
- Data Covid19.csv

Code

```
[3]: # Province/State 173972 non-null object
      # Country/Region 210817 non-null object
      # Last Update 210817 non-null object
      # Confirmed 210817 non-null int64
      # Deaths 210817 non-null int64
      # Recovered 210817 non-null int64
      dtypes: int64(3), object(3)
      memory usage: 10.0+ MB
```

data["Last Update"].unique()

```
array(['1/22/2020 17:00', '1/23/20 17:00', '1/24/20 17:00', ...,
      '26/02/2021 05:22', '27/02/2021 05:22', '28/02/2021 05:22'],
      dtype=object)
```

latest_date = '28/02/2021 05:22'

```
data[data['Last Update']!=latest_date]
```

completed at 10:51 PM

Course [0022] DATA MINING | Visualisasi Data Covid-19 dengan | Visualisasi Data Covid-19 dengan | WhatsApp

colab.research.google.com/drive/1y5Z2j0d7u7Bjyne1aTPWdXgAgeladnPhcm3To-B-1vWv8D0uP

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

Code

```
latest_date = '28/02/2021 05:22'
data[data['Last Update']==latest_date]
```

	Province/State	Country/Region	Last Update	Confirmed	Deaths	Recovered
236253	NaN	Afghanistan	28/02/2021 05:22	55707	2443	49288
236254	NaN	Albania	28/02/2021 05:22	105215	1775	68969
236255	NaN	Algeria	28/02/2021 05:22	112960	2979	77976
236256	NaN	Andorra	28/02/2021 05:22	10849	110	10429
236257	NaN	Angola	28/02/2021 05:22	20782	506	19315
...
236012	Zaporizhka Oblast	Ukraine	28/02/2021 05:22	69504	1132	65049
236013	Zeeland	Netherlands	28/02/2021 05:22	16400	178	0
236014	Zhejiang	Mainland China	28/02/2021 05:22	1321	1	1314
236015	Zhytomyr Oblast	Ukraine	28/02/2021 05:22	50582	834	44309
236016	Zuid-Holland	Netherlands	28/02/2021 05:22	255335	3732	0

754 rows x 6 columns

completed at 10:53 PM

Course [0022] DATA MINING | Visualisasi Data Covid-19 dengan | Visualisasi Data Covid-19 dengan | WhatsApp

colab.research.google.com/drive/1y5Z2j0d7u7Bjyne1aTPWdXgAgeladnPhcm3To-B-1vWv8D0uP

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

Code

```
unique_countries = data[data['confirmed>0']]['Country/Region'].unique()
unique_countries.sort()
unique_countries
```

754 rows x 6 columns

completed at 10:53 PM

Course: [00222] DATA MINING x Visualisasi Data Covid19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5Z2J0d7uF8jyne1aTPWdXgAgqddmPncm3To=5-n19TKA-VM

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

Code

```
unique_countries = data[data.Confirmed>0]['Country/Region'].unique()
unique_countries.sort()
unique_countries
```

```
array(['Azerbaijan', "('St. Martin')", 'Afghanistan', 'Albania',
      'Algeria', 'Andorra', 'Angola', 'Antigua and Barbuda', 'Argentina',
      'Armenia', 'Aruba', 'Australia', 'Austria', 'Azerbaijan',
      'Bahamas', 'Bahamas, The', 'Bahrain', 'Bangladesh', 'Barbados',
      'Belarus', 'Belgium', 'Belize', 'Benin', 'Bhutan', 'Bolivia',
      'Bosnia and Herzegovina', 'Botswana', 'Brazil', 'Brunei',
      'Bulgaria', 'Burkina Faso', 'Burma', 'Burundi', 'Cabo Verde',
      'Cambodia', 'Cameroon', 'Canada', 'Cape Verde', 'Cayman Islands',
      'Central African Republic', 'Chad', 'Channel Islands', 'Chile',
      'Colombia', 'Comoros', 'Congo (Brazzaville)', 'Congo (Kinshasa)',
      'Costa Rica', 'Croatia', 'Cuba', 'Curacao', 'Cyprus',
      'Czech Republic', 'Denmark', 'Diamond Princess', 'Djibouti',
      'Dominica', 'Dominican Republic', 'East Timor', 'Ecuador', 'Egypt',
      'El Salvador', 'Equatorial Guinea', 'Eritrea', 'Estonia',
      'Fawatini', 'Ethiopia', 'Faroe Islands', 'Fiji', 'Finland',
      'France', 'French Guiana', 'Gabon', 'Gambia', 'Gambia, The',
      'Georgia', 'Germany', 'Ghana', 'Gibraltar', 'Greece', 'Greenland',
      'Grenada', 'Guadeloupe', 'Guam', 'Guatemala', 'Guernsey', 'Guinea',
      'Guinea-Bissau', 'Guyana', 'Haiti', 'Holy See', 'Honduras',
      'Hong Kong', 'Hungary', 'Iceland', 'India', 'Indonesia', 'Iran',
      'Iraq', 'Ireland', 'Israel', 'Italy', 'Ivory Coast', 'Jamaica',
      'Japan', 'Jersey', 'Jordan', 'Kazakhstan', 'Kenya', 'Kosovo',
      'Kuwait', 'Kyrgyzstan', 'Laos', 'Latvia', 'Lebanon', 'Lesotho',
      'Liberia', 'Libya', 'Liechtenstein', 'Lithuania', 'Luxembourg',
      'MS Zaandam', 'Malau', 'Madagascar', 'Mainland China', 'Malawi',
      'Maldives', 'Malta', 'Mauritius', 'Mexico', 'Moldova', 'Mongolia',
      'Montenegro', 'Morocco', 'Mozambique', 'Myanmar', 'Namibia',
      'Nauru', 'Netherlands', 'New Caledonia', 'New Zealand', 'Nicaragua',
      'Niger', 'Nigeria', 'North Macedonia', 'Norway', 'Oman', 'Pakistan',
      'Palau', 'Palestine', 'Panama', 'Papua New Guinea', 'Paraguay',
      'Peru', 'Philippines', 'Poland', 'Portugal', 'Puerto Rico', 'Qatar',
      'Romania', 'Russia', 'Rwanda', 'Saint Kitts and Nevis', 'Saint Lucia',
      'Saint Vincent and the Grenadines', 'Samoa', 'San Marino', 'Sao Tome and Principe',
      'Saudi Arabia', 'Senegal', 'Serbia', 'Seychelles', 'Sierra Leone', 'Singapore',
      'Slovakia', 'Slovenia', 'South Africa', 'South Korea', 'Spain', 'Sri Lanka',
      'Sudan', 'Suriname', 'Sweden', 'Switzerland', 'Syria', 'Taiwan',
      'Tajikistan', 'Tanzania', 'Thailand', 'The Bahamas', 'The Gambia',
      'Timor-Leste', 'Togo', 'Trinidad and Tobago', 'Tunisia', 'Turkey',
      'UK', 'US', 'Uganda', 'Ukraine', 'United Arab Emirates', 'Uruguay',
      'Uzbekistan', 'Vanuatu', 'Vatican City', 'Venezuela', 'Vietnam',
      'West Bank and Gaza', 'Yemen', 'Zambia', 'Zimbabwe',
      'occupied Palestinian territory'], dtype=object)
```

On completed at 10:54 PM

Course: [00222] DATA MINING x Visualisasi Data Covid19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5Z2J0d7uF8jyne1aTPWdXgAgqddmPncm3To=5-n19TKA-VM

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

Code

```
[6]
```

```
country_confirmed_case = []
for i in unique_countries:
    country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())
```

On completed at 10:54 PM

Course [0022] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19 dengan x WhatsApp

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Visualisasi Data Covid-19.ipynb

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Files

- sample_data
- Data Covid19.csv

Code

```
[6] 'Suriname', 'Sweden', 'Switzerland', 'Syria', 'Taiwan',
      'Tajikistan', 'Tanzania', 'Thailand', 'The Bahamas', 'The Gambia',
      'Timor-Leste', 'Togo', 'Trinidad and Tobago', 'Tunisia', 'Turkey',
      'UK', 'US', 'Uganda', 'Ukraine', 'United Arab Emirates', 'Uruguay',
      'Uzbekistan', 'Vanuatu', 'Vatican City', 'Venezuela', 'Vietnam',
      'West Bank and Gaza', 'Yemen', 'Zambia', 'Zimbabwe',
      'occupied Palestinian territory'], dtype=object)
```

```
[7] country_confirmed_case = []
for i in unique_countries:
    country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-7-1a4d880120d8>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())
```

136 completed at 10:57 PM

Course [0022] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19 dengan x WhatsApp

colab.research.google.com/drive/1y5ZZjOdTuf8jYnne1aTPWIXgAgeddnPncn8Toxy5h8P6LYMC

Visualisasi Data Covid-19.ipynb

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Files

- sample_data
- Data Covid19.csv

Code

```
vanuatu, 'samoa', 'micronesia'], dtype=object)
```

```
[7] country_confirmed_case = []
for i in unique_countries:
    country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-7-1a4d880120d8>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())
```

```
print(set(zip(unique_countries, country_confirmed_case)))
```

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Course [0022] DATA MINING x Visualisasi Data Covid-19 deng... x Visualisasi Data Covid-19 gyro x WhatsApp x

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Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

```
[ ]  
no_zaaland, 'Botswana', 'Burundi', 'Sierra Leone', 'Palau',  
'South Sudan', 'Sao Tome and Principe', 'Yemen', 'Comoros',  
'Tajikistan', 'Lesotho', 'Solomon Islands', 'Marshall Islands',  
'Vanuatu', 'Samoa', 'Micronesia'], dtype=object)  
  
[ ] country_confirmed_case = []  
for i in unique_countries:  
    country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())  
  
<ipython-input-7-1d4d89d18bd8>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.  
country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())  
  
print(set(zip(unique_countries, country_confirmed_case)))  
  
{('Austria', 6004), ('Philippines', 12293), ('Algeria', 3873), ('Azerbaijan', 712), ('Faroe Islands', 174325), ('Palau', 38834), ('
```

completed at 11:08PM

Course [0022] DATA MINING x Visualisasi Data Covid-19 deng... x Visualisasi Data Covid-19 gyro x WhatsApp x

colab.research.google.com/drive/1y5ZJ0dITu78jyne1aTPWIXgAgqd6dnPncu8To=editWAAufKa1Ae

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

```
[ ]  
no_zaaland, 'Botswana', 'Burundi', 'Sierra Leone', 'Palau',  
'South Sudan', 'Sao Tome and Principe', 'Yemen', 'Comoros',  
'Tajikistan', 'Lesotho', 'Solomon Islands', 'Marshall Islands',  
'Vanuatu', 'Samoa', 'Micronesia'], dtype=object)  
  
[7] country_confirmed_case = []  
for i in unique_countries:  
    country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())  
  
<ipython-input-7-1d4d89d18bd8>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.  
country_confirmed_case.append(data[data.Confirmed>0][data['Country/Region']==i][data['Last Update']==latest_date].Confirmed.sum())  
  
[11] print(set(zip(unique_countries, country_confirmed_case)))  
  
{('Austria', 6004), ('Philippines', 12293), ('Algeria', 3873), ('Azerbaijan', 712), ('Faroe Islands', 174325), ('Palau', 38834), ('  
  
unique_provinces = data['Province/State'][data.Confirmed>0].unique()  
unique_provinces
```

completed at 11:08PM

Course (2022) DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19 pyb x WhatsApp

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Visualisasi Data Covid-19.ipynb

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Comment Share 5

Files

sample_data
Data Covid19.csv

Code

```
unique_provinces = data['Province/State'][data.Confirmed>1].unique()
unique_provinces

array(['Beijing', 'Chongqing', 'Guangdong', 'Guangxi', 'Hainan', 'Henan',
       'Hubei', 'Hunan', 'Jiangxi', 'Liaoning', 'Shandong', 'Shanghai',
       'Sichuan', 'Tianjin', 'Zhejiang', nan, 'Anhui', 'Fujian', 'Gansu',
       'Guizhou', 'Hailongjiang', 'Hong Kong', 'Jiangsu', 'Macau',
       'Shaanxi', 'Xinjiang', 'Yunnan', 'Jilin', 'Taiwan', 'Ningxia',
       'Hebei', 'Inner Mongolia', 'Shensi', 'California', 'Qinghai',
       'New South Wales', 'Bavaria', 'Ontario', 'Victoria', 'Queensland',
       'Illinois', 'Chicago, IL', 'South Australia', 'San Sinito, CA',
       'Santa Clara, CA', 'Toronto, ON', 'British Columbia',
       'Cruise Ship', 'Diamond Princess cruise ship',
       'San Diego County, CA', 'Aahland, ME', 'Travis, CA',
       'Fron Diamond Princess', 'Lackland, TX',
       'Omaha, NE (Fron Diamond Princess)',
       'Travis, CA (Fron Diamond Princess)',
       'Lackland, TX (Fron Diamond Princess)',
       'Unassigned Location (Fron Diamond Princess)', 'None',
       'Sacramento County, CA', 'Seattle, WA', 'Western Australia',
       'Spohnish County, WA', 'King County, WA', 'Cook County, IL',
       'Portland, OR', 'Providence, RI', 'Fulton County, GA',
       'Grafton County, NH', 'Hillsborough, FL', 'San Mateo, CA',
       'Washington County, OR', 'Westchester County, NY',
       'Los Angeles, CA', 'Orange County, CA', 'Placer County, CA',
       'New York City, NY', 'Montreal, QC', 'Bergen County, NJ',
       'Harris County, TX', 'San Francisco County, CA',
       'New York County, NY', 'Unassigned Location, WA',
       'Contra Costa County, CA', 'Montgomery County, MD',
```

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Course (2022) DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19 pyb x WhatsApp

colab.research.google.com/drive/1y5Z2J0d7u783j9ne1aTPWXXgAqEdnPhcm3To=OfgG3s-edibD

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help Last saved at 11:18PM

Comment Share 5

Files

sample_data
Data Covid19.csv

Code

```
unique_provinces = data['Province/State'][data.Confirmed>1].unique()
unique_provinces

'Suffolk County, MA', 'Norfolk County, MA', 'Denver County, CO',
'Havicopa County, AZ', 'Summit County, CO',
'Santa Clara County, CA', 'Grand Princess Cruise Ship',
'Nassau County, NY', 'Douglas County, CO', 'Fort Bend County, TX',
'Providence County, RI', 'Alameda County, CA',
'Broward County, FL', 'Fairfield County, CT', 'Floyd County, GA',
'Lee County, FL', 'Pinal County, AZ', 'Rockland County, NY',
'Saratoga County, NY', 'Hillslaxs County, MA',
'Norfolk County, MA', 'Montgomery County, PA', 'Pierce County, WA',
'Edmonton, Alberta', 'Tasmania', 'Clark County, NV',
'Fairfax County, VA', 'Jackson County, OR',
'Rockingham County, NH', 'Washington, D.C.', 'Washoe County, NV',
'Alberta', 'Kershaw County, SC', 'Quebec', 'Cobb County, GA',
'Douglas County, NE', 'Johnson County, IA', 'Sonoma County, CA',
'Harrison County, KY', 'Hendricks County, IN',
'Honolulu County, HI', 'Manatee County, FL', 'Washington',
'New York', 'Massachusetts', 'Grand Princess', 'Georgia',
'Colorado', 'Florida', 'New Jersey', 'Oregon', 'Texas',
'Pennsylvania', 'Iowa', 'Maryland', 'North Carolina',
'South Carolina', 'Tennessee', 'Virginia', 'Arizona', 'Indiana',
'Kentucky', 'District of Columbia', 'Nevada', 'New Hampshire',
'Minnesota', 'Nebraska', 'Ohio', 'Rhode Island', 'Wisconsin',
'Connecticut', 'Hawaii', 'Oklahoma', 'Utah', 'France', 'UK',
'Denmark', 'South Dakota', 'Louisiana', 'New Mexico',
'Faroe Islands', 'St Martin', 'Michigan', 'Channel Islands',
'Arkansas', 'Vermont', 'United Kingdom', 'French Polynesia',
```

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2020 31/03/2023

Course (2022) DATA MINING Visualisasi Data Covid-19 dengan Visualisasi Data Covid-19.ipynb WhatsApp

colab.research.google.com/drive/1y5ZZjOdTz8jYne1aTPWXXgAgeddnPncmLo=OfgGk-editD

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help Last saved at 11:18PM

Files

- sample_data
- Data Covid19.csv

Code

```
unique_provinces = data['Province/State'][data.Confirmed>1].unique()
unique_provinces
```

```
'Manitoba', 'Saskatchewan', 'Alabama', 'Delaware', 'Kansas',
'Missouri', 'Mississippi', 'French Guiana', 'Montana', 'Maine',
'Puerto Rico', 'Idaho', 'Wyoming', 'French Guiana', 'Guam',
'New Brunswick', 'Netherlands', 'Nova Scotia', 'Guadeloupe',
'Saint Barthélemy', 'Australian Capital Territory', 'Reunion',
'Newfoundland and Labrador', 'Curaçao', 'Alaska', 'North Dakota',
'Gibraltar', 'Virgin Islands', 'Aruba',
'United States Virgin Islands', 'Cayman Islands',
'Prince Edward Island', 'Greenland', 'New Caledonia',
'West Virginia', 'Bermuda', 'Northern Territory', 'Isle of Man',
'Martinique', 'Mayotte', 'Wuhan Evacuee', 'Sint Maarten',
'Montserrat', 'Yukon', 'Anguilla', 'British Virgin Islands',
'Turks and Caicos Islands', 'Northern Mariana Islands',
'Northwest Territories', 'Bonaire, Sint Eustatius and Saba',
'Falkland Islands (Islas Malvinas)', 'Falkland Islands (Malvinas)',
'Abruzzo', 'Andalusia', 'Aragon', 'Asturias', 'Baden-Württemberg',
'Balkares', 'Basilicata', 'Bavaria', 'Berlin', 'Brandenburg',
'Bremen', 'C. Valenciana', 'Calabria', 'Campania', 'Canarias',
'Cantabria', 'Castilla - La Mancha', 'Castilla y Leon',
'Catalonia', 'Certa', 'Emilia-Romagna', 'Extremadura',
'Friuli Venezia Giulia', 'Galicia', 'Hamburg', 'Hessen',
'La Mioja', 'Lazio', 'Liguria', 'Lombardia', 'Madrid', 'Marche',
'Hecklenburg-Vorpommern', 'Melilla', 'Molise', 'Murcia', 'Navarra',
'Niedersachsen', 'Nordrhein-Westfalen', 'P.A. Bolzano',
'P.A. Trento', 'País Vasco', 'Piemonte', 'Puglia',
'Rheinland-Pfalz', 'Saarland', 'Sachsen', 'Sachsen-Anhalt',
```

2021 31/03/2023

Course (2022) DATA MINING Visualisasi Data Covid-19 dengan Visualisasi Data Covid-19.ipynb WhatsApp

colab.research.google.com/drive/1y5ZZjOdTz8jYne1aTPWXXgAgeddnPncmLo=OfgGk-editD

Visualisasi Data Covid-19.ipynb

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Files

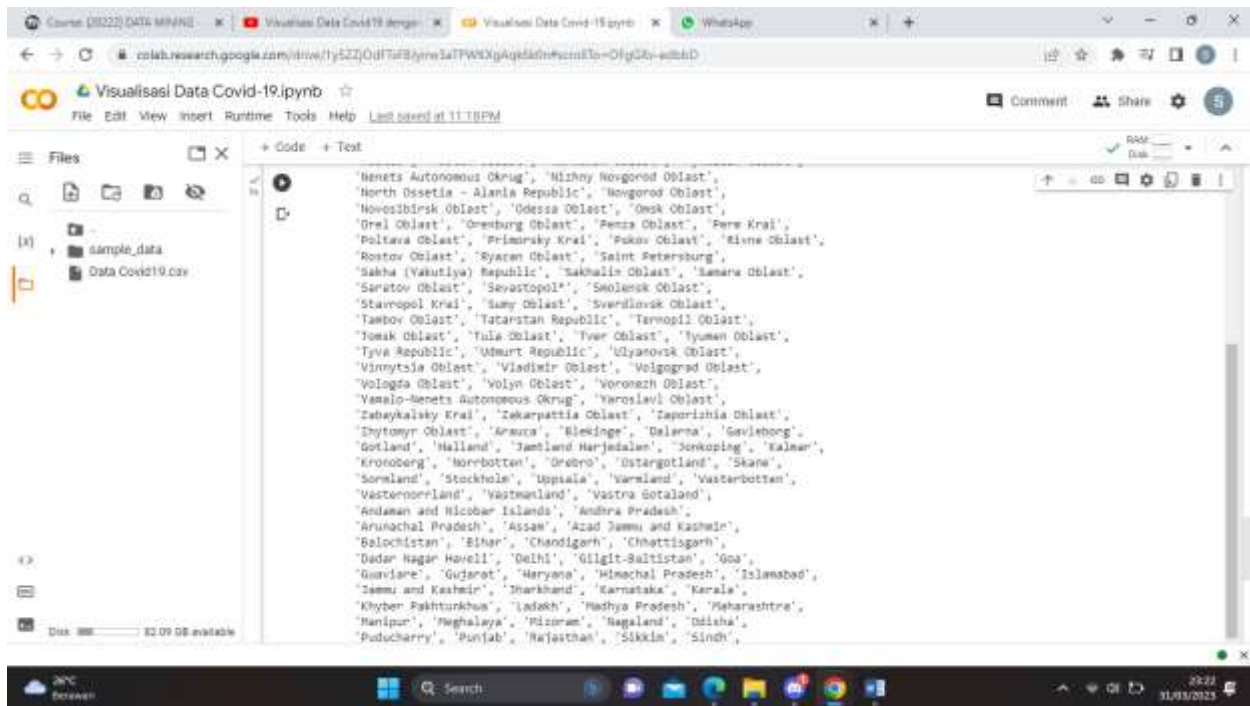
- sample_data
- Data Covid19.csv

Code

```
unique_provinces = data['Province/State'][data.Confirmed>1].unique()
unique_provinces
```

```
'Toscana', 'Umbria', 'Unknown', 'Valle d'Aosta', 'Veneto', 'Acre',
'Aguascalientes', 'Alagoas', 'Amapa', 'Amazonas', 'Antofagasta',
'Araucania', 'Arica y Parinacota', 'Atacama', 'Aysen', 'Bahia',
'Baja California', 'Baja California Sur', 'Biobio', 'Campeche',
'Ceara', 'Chiapas', 'Chihuahua', 'Ciudad de Mexico', 'Coahuila',
'Colima', 'Coquimbo', 'Distrito Federal', 'Durango',
'Espirito Santo', 'Goiás', 'Guanaajuato', 'Guerrero', 'Hidalgo',
'Jalisco', 'Los Lagos', 'Los Rios', 'Magallanes', 'Maranhao',
'Mato Grosso', 'Mato Grosso do Sul', 'Maula', 'Metropolitana',
'Mexico', 'Michoacan', 'Minas Gerais', 'Morelos', 'Nayarit',
'Nubie', 'Nuevo Leon', 'O'Higgins', 'Oaxaca', 'Para', 'Paraiiba',
'Parana', 'Pernambuco', 'Pisui', 'Puebla', 'Queretaro',
'Quintana Roo', 'Rio Grande do Norte', 'Rio Grande do Sul',
'Rio de Janeiro', 'Rondonia', 'Roraima', 'San Luis Potosi',
'Santa Catarina', 'Sao Paulo', 'Sergipe', 'Simaoes', 'Sonora',
'Tabasco', 'Tamaulipas', 'Tapanaca', 'Tlaxcala', 'Tocantina',
'Valparaiso', 'Veracruz', 'Yucatan', 'Zacatecas', 'Aichi', 'Akita',
'Ancash', 'Antioquia', 'Aomori', 'Apurimac', 'Arequipa',
'Atlantico', 'Ayacucho', 'Bollvan', 'Boyaca', 'Cajamarca',
'Caldas', 'Callao', 'Capital District', 'Caqueta', 'Casamare',
'Cauca', 'Cesar', 'Chiba', 'Choco', 'Cordoba', 'Cundinamarca',
'Curco', 'Ehime', 'Fukui', 'Fukuoka', 'Fukushima', 'Gifu', 'Gunma',
'Hiroshima', 'Hokkaido', 'Huancavelica', 'Huanuco', 'Huila',
'Hyogo', 'Ibaraki', 'Ica', 'Ishikawa', 'Iwate', 'Kagawa',
'Kagoshima', 'Kanagawa', 'Kochi', 'Kumamoto', 'Kyoto',
'La Guajira', 'La Libertad', 'Lambayeque', 'Lima', 'Loreto',
'Moravia de Mico', 'Mordochow', 'Mordochow', 'Mordochow', 'Mordochow',
```

2021 31/03/2023



Course (2022) DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZJ0d7u7B3jyne1aTPWXXgAged6nFncmTo=Ofg3A-editD

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help Last saved at 11:18PM

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
getland", "Halland", "Jämtland Härjedalen", "Jönköping", "Kalmar",  
"Kronoberg", "Norrbotten", "Örebro", "Östergötland", "Skåne",  
"Södermanland", "Stockholm", "Uppsala", "Värmland", "Västernorrland",  
"Västmanland", "Västergötland", "Västra Götaland",  
"Andaman and Nicobar Islands", "Andhra Pradesh",  
"Arunachal Pradesh", "Assam", "Azad Jammu and Kashmir",  
"Balochistan", "Bihar", "Chandigarh", "Chhattisgarh",  
"Dadar Nagar Haveli", "Delhi", "Gilgit-Baltistan", "Goa",  
"Guajarat", "Gujarat", "Haryana", "Himachal Pradesh", "Islamabad",  
"Jammu and Kashmir", "Jharkhand", "Karnataka", "Kerala",  
"Khyber Pakhtunkhwa", "Ladakh", "Madhya Pradesh", "Maharashtra",  
"Manipur", "Meghalaya", "Mizoram", "Nagaland", "Odisha",  
"Puducherry", "Punjab", "Rajasthan", "Sikkim", "Sindh",  
"Tamil Nadu", "Telangana", "Tripura", "Uttar Pradesh",  
"Uttarakhand", "West Bengal",  
"Dadra and Nagar Haveli and Daman and Diu", "England",  
"Northern Ireland", "Scotland", "Wales",  
"Saint Pierre and Miquelon", "Drenthe", "Flevoland", "Friesland",  
"Gelderland", "Groningen", "Limburg", "Noord-Brabant",  
"Noord-Holland", "Overijssel", "Utrecht", "Zeeland",  
"Zuid-Holland", "Vichada", "Izate",  
"Saint Helena, Ascension and Tristan da Cunha", "Manavut",  
"Antwerp", "Brussels", "East Flanders", "Flemish Brabant",  
"Hainaut", "Liege", "Luxembourg", "Namur", "Walloon Brabant",  
"West Flanders", "Repatriated Travellers", "Wallis and Futuna",  
"Lakshadweep"]], dtype=object)
```

Course (2022) DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZJ0d7u7B3jyne1aTPWXXgAged6nFncmTo=Ofg3A-editD

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help Last saved at 11:18PM

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
["Northern Ireland", "Scotland", "Wales",  
"Saint Pierre and Miquelon", "Drenthe", "Flevoland", "Friesland",  
"Gelderland", "Groningen", "Limburg", "Noord-Brabant",  
"Noord-Holland", "Overijssel", "Utrecht", "Zeeland",  
"Zuid-Holland", "Vichada", "Izate",  
"Saint Helena, Ascension and Tristan da Cunha", "Manavut",  
"Antwerp", "Brussels", "East Flanders", "Flemish Brabant",  
"Hainaut", "Liege", "Luxembourg", "Namur", "Walloon Brabant",  
"West Flanders", "Repatriated Travellers", "Wallis and Futuna",  
"Lakshadweep"]], dtype=object)
```

```
provinces_confirmed_case = []  
for i in unique_provinces:  
    provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==i][data['last_update']==latest_date].Confirmed.sum())
```

Course [0022] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19 dengan x WhatsApp

colab.research.google.com/drive/1y5ZJ0d7u7Bjyne1aTPWdXgAged6dnPncu8To=0UwMtkdeu/

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
[18]: Northern Ireland', 'Scotland', 'Wales',
      'Saint Pierre and Miquelon', 'Drenthe', 'Flevoland', 'Friesland',
      'Gelderland', 'Groningen', 'Limburg', 'Noord-Brabant',
      'Noord-Holland', 'Overijssel', 'Utrecht', 'Zeeland',
      'Zuid-Holland', 'Vichada', 'Isate',
      'Saint Helena, Ascension and Tristan da Cunha', 'Munavut',
      'Antwerp', 'Brussels', 'East Flanders', 'Flemish Brabant',
      'Hainaut', 'Liege', 'Luxembourg', 'Namur', 'Walloon Brabant',
      'West Flanders', 'Repatriated Travellers', 'Wallis and Futuna',
      'Lakshadweep', dtype=object)

provinces_confirmed_case = []
for i in unique_provinces:
    provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==i][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-19-4349731a097e>:1: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==i][data['Last Update']==latest_date].Confirmed.sum())
```

38s completed at 11:25 PM

Course [0022] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19 dengan x WhatsApp

colab.research.google.com/drive/1y5ZJ0d7u7Bjyne1aTPWdXgAged6dnPncu8To=9A5L252fgo2E

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
[18]: Northern Ireland', 'Scotland', 'Wales',
      'Saint Pierre and Miquelon', 'Drenthe', 'Flevoland', 'Friesland',
      'Gelderland', 'Groningen', 'Limburg', 'Noord-Brabant',
      'Noord-Holland', 'Overijssel', 'Utrecht', 'Zeeland',
      'Zuid-Holland', 'Vichada', 'Isate',
      'Saint Helena, Ascension and Tristan da Cunha', 'Munavut',
      'Antwerp', 'Brussels', 'East Flanders', 'Flemish Brabant',
      'Hainaut', 'Liege', 'Luxembourg', 'Namur', 'Walloon Brabant',
      'West Flanders', 'Repatriated Travellers', 'Wallis and Futuna',
      'Lakshadweep', dtype=object)

[19]: provinces_confirmed_case = []
      for i in unique_provinces:
          provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==i][data['Last Update']==latest_date].Confirmed.sum())

      <ipython-input-19-4349731a097e>:1: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
      provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==i][data['Last Update']==latest_date].Confirmed.sum())

      print(set(zip(unique_provinces, provinces_confirmed_case)))
```

38s completed at 11:25 PM

Course [0022] DATA MINING x Visualisasi Data Covid19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZJ0d7uF8jYnre1aTPWdXgAged6dnPncu8To=3ASLc2Mg0E

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share

Files

- sample_data
- Data Covid19.csv

```
19: unique_provinces:
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-19-4348731a887e>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

20: print(set(zip(unique_provinces, provinces_confirmed_case)))

{('Wakayama', 1182), ('New South Wales', 5177), ('Sachsen-Anhalt', 69039), ('Groningen', 20894), ('Gibraltar', 4238), ('Sonora', 6759)}
```

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Course [0022] DATA MINING x Visualisasi Data Covid19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZJ0d7uF8jYnre1aTPWdXgAged6dnPncu8To=CSY2moU5Hv

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help

Comment Share

Files

- sample_data
- Data Covid19.csv

```
19: unique_provinces:
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-19-4348731a887e>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

20: print(set(zip(unique_provinces, provinces_confirmed_case)))

{('Wakayama', 1182), ('New South Wales', 5177), ('Sachsen-Anhalt', 69039), ('Groningen', 20894), ('Gibraltar', 4238), ('Sonora', 6759)}

21: max_indices = []
for i in range(len(unique_provinces)):
    if type(unique_provinces[i])==float:
        max_indices.append(i)
```

82.09 GB available

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Course [0022] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZJ0dITuF8jyne1aTPWdXgAgeddnPccu8To-qCSY2moUHV

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
19 unique_provinces:
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-19-434R731aM87e>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

20 print(set(list(unique_provinces, provinces_confirmed_case)))

({'Wakayama', 1182), ('New South Wales', 5177), ('Sachsen-Anhalt', 69039), ('Groningen', 20894), ('Gibraltar', 4238), ('Sonora', 6759)}

nan_indices = []
for i in range(len(unique_provinces)):
    if type(unique_provinces[i])!=float:
        nan_indices.append(i)
```

completed at 11:29 PM

Course [0022] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZJ0dITuF8jyne1aTPWdXgAgeddnPccu8To-qCSY2moUHV

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
19 unique_provinces:
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

<ipython-input-19-434R731aM87e>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['Last Update']==latest_date].Confirmed.sum())

20 print(set(list(unique_provinces, provinces_confirmed_case)))

({'Wakayama', 1182), ('New South Wales', 5177), ('Sachsen-Anhalt', 69039), ('Groningen', 20894), ('Gibraltar', 4238), ('Sonora', 6759)}

21 nan_indices = []
for i in range(len(unique_provinces)):
    if type(unique_provinces[i])!=float:
        nan_indices.append(i)

unique_provinces = list(unique_provinces)
provinces_confirmed_case = list(provinces_confirmed_case)
```

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Course [00222] DATA MINING Visualisasi Data Covid19 dengan Visualisasi Data Covid-19.ipynb WhatsApp

colab.research.google.com/drive/1y5Z2jOdTuf8jYnre1aTPWIXgAqEd6dnPccm3To=Cov19MgkgR11

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
[19] #unique_provinces:
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['last_update']==latest_date].Confirmed.sum())

<ipython-input-19-434R731aW87>:3: UserWarning: Boolean Series key will be reindexed to match DataFrame index.
provinces_confirmed_case.append(data[data.Confirmed>0][data['Province/State']==1][data['last_update']==latest_date].Confirmed.sum())

[20] print(set(list(unique_provinces, provinces_confirmed_case)))

{('Wakayama', 1102), ('New South Wales', 5177), ('Sachsen-Anhalt', 60630), ('Groningen', 20004), ('Gibraltar', 4238), ('Sonora', 6709)}

[21] nan_indices = []
for i in range(len(unique_provinces)):
    if type(unique_provinces[i])!=float:
        nan_indices.append(i)

unique_provinces = list(unique_provinces)
provinces_confirmed_case = list(provinces_confirmed_case)
```

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Course [00222] DATA MINING Visualisasi Data Covid19 dengan Visualisasi Data Covid-19.ipynb WhatsApp

colab.research.google.com/drive/1y5Z2jOdTuf8jYnre1aTPWIXgAqEd6dnPccm3To=Cov19MgkgR11

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Comment Share 5

Files

- sample_data
- Data Covid19.csv

```
[20] print(set(list(unique_provinces, provinces_confirmed_case)))

{('Wakayama', 1102), ('New South Wales', 5177), ('Sachsen-Anhalt', 60630), ('Groningen', 20004), ('Gibraltar', 4238), ('Sonora', 6709)}

[21] nan_indices = []
for i in range(len(unique_provinces)):
    if type(unique_provinces[i])!=float:
        nan_indices.append(i)

[22] unique_provinces = list(unique_provinces)
provinces_confirmed_case = list(provinces_confirmed_case)

from pandas.tseries.frequencies import to_datetime
for i in nan_indices:
    unique_provinces.pop(i)
    provinces_confirmed_case.pop(i)

unique_provinces
```

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Course [00222] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

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Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

```
from pandas.Series.frequencies import unique
for i in nan_indices:
    unique_provinces.pop(i)
    provinces_confirmed_case.pop(i)

unique_provinces
```

```
['Jharkhand',
 'Karnataka',
 'Kerala',
 'Khyber Pakhtunkhwa',
 'Ladakh',
 'Madhya Pradesh',
 'Maharashtra',
 'Manipur',
 'Meghalaya',
 'Mizoram',
 'Nagaland',
 'Odisha',
 'Puducherry',
 'Punjab',
 'Rajasthan',
 'Sikkim',
 'Sindh',
 'Tamil Nadu',
 'Telangana',
 'Tripura',
 'Uttar Pradesh']
```

completed at 11:37PM

Course [00222] DATA MINING x Visualisasi Data Covid-19 dengan x Visualisasi Data Covid-19.ipynb x WhatsApp

colab.research.google.com/drive/1y5ZZjOdTfz8jyne1aTPWdXgAged6dnPccm3Toeyun3v44WzG

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

- sample_data
- Data Covid19.csv

```
['Flevoland',
 'Friesland',
 'Gelderland',
 'Groningen',
 'Limburg',
 'Noord-Brabant',
 'Noord-Holland',
 'Overijssel',
 'Utrecht',
 'Zeeland',
 'Zuid-Holland',
 'Victoria',
 'Iwato',
 'Saint Helena, Ascension and Tristan da Cunha',
 'Nunavut',
 'Antwerp',
 'Brussels',
 'East Flanders',
 'Flemish Brabant',
 'Hainaut',
 'Liege',
 'Luxembourg',
 'Namur',
 'Wallonia Brabant',
 'West Flanders',
 'Repatriated Travellers',
 'Hallis and Futuna',
 'Lakshadweep']
```

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Course (2022) DATA MINING | Visualisasi Data Covid-19 dengan | Visualisasi Data Covid-19.ipynb | WhatsApp

colab.research.google.com/drive/1y5ZJ0dF7u78j9ne1aTPW1XgAqdd6mPcc0To-0ba6Lpe8nv

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help Saving...

Files

- sample_data
- Data Covid19.csv

```
plt.barh(unique_countries, country_confirmed_case)
plt.show()
```

12.09 GB available

completed at 11:39 PM

Windows Taskbar: Search, 23:40, 31/03/2023

41134806 | Visualisasi D... | Visualisasi D... | Visualisasi D... | WhatsApp | Data Mining | Drive | Downloads

colab.research.google.com/drive/1WpChgn1y7fu00tcm72N5mZMLuJZ1FscollfaT2uff5akp0TM

Visualisasi Data Covid-19.ipynb

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

```
plt.show()
```

```
[18]: plt.figure(figsize=(10,40))
```

17% completed at 12:56 AM

Windows Taskbar: Search, 00:57, 01/04/2023

