RA2211003010977_A_NIRMAL_SAI_KANNA_PBLIComponent_PracticeI

September 21, 2024

[1]:
```
!pip install pandas numpy matplotlib seaborn
```

```
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages
(2.1.4)
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages
(1.26.4)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.10/dist-
packages (3.7.1)
Requirement already satisfied: seaborn in /usr/local/lib/python3.10/dist-
packages (0.13.1)
Requirement already satisfied: python-dateutil>=2.8.2 in
/usr/local/lib/python3.10/dist-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-
packages (from pandas) (2024.2)
Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-
packages (from pandas) (2024.1)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib) (1.3.0)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-
packages (from matplotlib) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib) (4.53.1)
Requirement already satisfied: kiwisolver>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib) (1.4.7)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib) (24.1)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.10/dist-
packages (from matplotlib) (10.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib) (3.1.4)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-
packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
```

[2]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
import seaborn as sns
```

[3]:
```
df=pd.read_csv('/content/country_wise_latest.csv')
```

[4]:
```
df.head()
```

```
/usr/local/lib/python3.10/dist-packages/pandas/core/nanops.py:1010:
RuntimeWarning: invalid value encountered in subtract
  sqr = _ensure_numeric((avg - values) ** 2)
```

[4]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	\
0	Afghanistan	36263	1269	25198	9796	106	10	
1	Albania	4880	144	2745	1991	117	6	
2	Algeria	27973	1163	18837	7973	616	8	
3	Andorra	907	52	803	52	10	0	
4	Angola	950	41	242	667	18	1	

	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	\
0	18	3.50	69.49	
1	63	2.95	56.25	
2	749	4.16	67.34	
3	0	5.73	88.53	
4	0	4.32	25.47	

	Deaths / 100 Recovered	Confirmed last week	1 week change	\
0	5.04	35526	737	
1	5.25	4171	709	
2	6.17	23691	4282	
3	6.48	884	23	
4	16.94	749	201	

	1 week % increase	WHO Region
0	2.07	Eastern Mediterranean
1	17.00	Europe
2	18.07	Africa
3	2.60	Europe
4	26.84	Africa

[5]:
```
df.tail()
```

[5]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	\
182	West Bank and Gaza	10621	78	3752	6791	152	
183	Western Sahara	10	1	8	1	0	
184	Yemen	1691	483	833	375	10	
185	Zambia	4552	140	2815	1597	71	
186	Zimbabwe	2704	36	542	2126	192	

	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	\

```
182           2              0                0.73                    35.33
183           0              0               10.00                    80.00
184           4             36               28.56                    49.26
185           1            465                3.08                    61.84
186           2             24                1.33                    20.04

     Deaths / 100 Recovered  Confirmed last week  1 week change  \
182                    2.08                 8916           1705
183                   12.50                   10              0
184                   57.98                 1619             72
185                    4.97                 3326           1226
186                    6.64                 1713            991

     1 week % increase             WHO Region
182              19.12  Eastern Mediterranean
183               0.00                 Africa
184               4.45  Eastern Mediterranean
185              36.86                 Africa
186              57.85                 Africa
```

[6]:
```
df.columns
```

[6]:
```
Index(['Country/Region', 'Confirmed', 'Deaths', 'Recovered', 'Active',
       'New cases', 'New deaths', 'New recovered', 'Deaths / 100 Cases',
       'Recovered / 100 Cases', 'Deaths / 100 Recovered',
       'Confirmed last week', '1 week change', '1 week % increase',
       'WHO Region'],
      dtype='object')
```

[7]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 187 entries, 0 to 186
Data columns (total 15 columns):
 #   Column                  Non-Null Count  Dtype
---  ------                  --------------  -----
 0   Country/Region          187 non-null    object
 1   Confirmed               187 non-null    int64
 2   Deaths                  187 non-null    int64
 3   Recovered               187 non-null    int64
 4   Active                  187 non-null    int64
 5   New cases               187 non-null    int64
 6   New deaths              187 non-null    int64
 7   New recovered           187 non-null    int64
 8   Deaths / 100 Cases      187 non-null    float64
 9   Recovered / 100 Cases   187 non-null    float64
 10  Deaths / 100 Recovered  187 non-null    float64
 11  Confirmed last week     187 non-null    int64
```

```
 12  1 week change           187 non-null    int64
 13  1 week % increase       187 non-null    float64
 14  WHO Region              187 non-null    object
dtypes: float64(4), int64(9), object(2)
memory usage: 22.0+ KB
```

[8]:
```
df.describe()
```

```
/usr/local/lib/python3.10/dist-packages/pandas/core/nanops.py:1010:
RuntimeWarning: invalid value encountered in subtract
  sqr = _ensure_numeric((avg - values) ** 2)
/usr/local/lib/python3.10/dist-packages/pandas/core/nanops.py:1010:
RuntimeWarning: invalid value encountered in subtract
  sqr = _ensure_numeric((avg - values) ** 2)
```

[8]:

	Confirmed	Deaths	Recovered	Active	New cases
count	1.870000e+02	187.000000	1.870000e+02	1.870000e+02	187.000000
mean	8.813094e+04	3497.518717	5.063148e+04	3.400194e+04	1222.957219
std	3.833187e+05	14100.002482	1.901882e+05	2.133262e+05	5710.374790
min	1.000000e+01	0.000000	0.000000e+00	0.000000e+00	0.000000
25%	1.114000e+03	18.500000	6.265000e+02	1.415000e+02	4.000000
50%	5.059000e+03	108.000000	2.815000e+03	1.600000e+03	49.000000
75%	4.046050e+04	734.000000	2.260600e+04	9.149000e+03	419.500000
max	4.290259e+06	148011.000000	1.846641e+06	2.816444e+06	56336.000000

	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases
count	187.000000	187.000000	187.000000	187.000000
mean	28.957219	933.812834	3.019519	64.820535
std	120.037173	4197.719635	3.454302	26.287694
min	0.000000	0.000000	0.000000	0.000000
25%	0.000000	0.000000	0.945000	48.770000
50%	1.000000	22.000000	2.150000	71.320000
75%	6.000000	221.000000	3.875000	86.885000
max	1076.000000	33728.000000	28.560000	100.000000

	Deaths / 100 Recovered	Confirmed last week	1 week change
count	187.00	1.870000e+02	187.000000
mean	inf	7.868248e+04	9448.459893
std	NaN	3.382737e+05	47491.127684
min	0.00	1.000000e+01	-47.000000
25%	1.45	1.051500e+03	49.000000
50%	3.62	5.020000e+03	432.000000
75%	6.44	3.708050e+04	3172.000000
max	inf	3.834677e+06	455582.000000

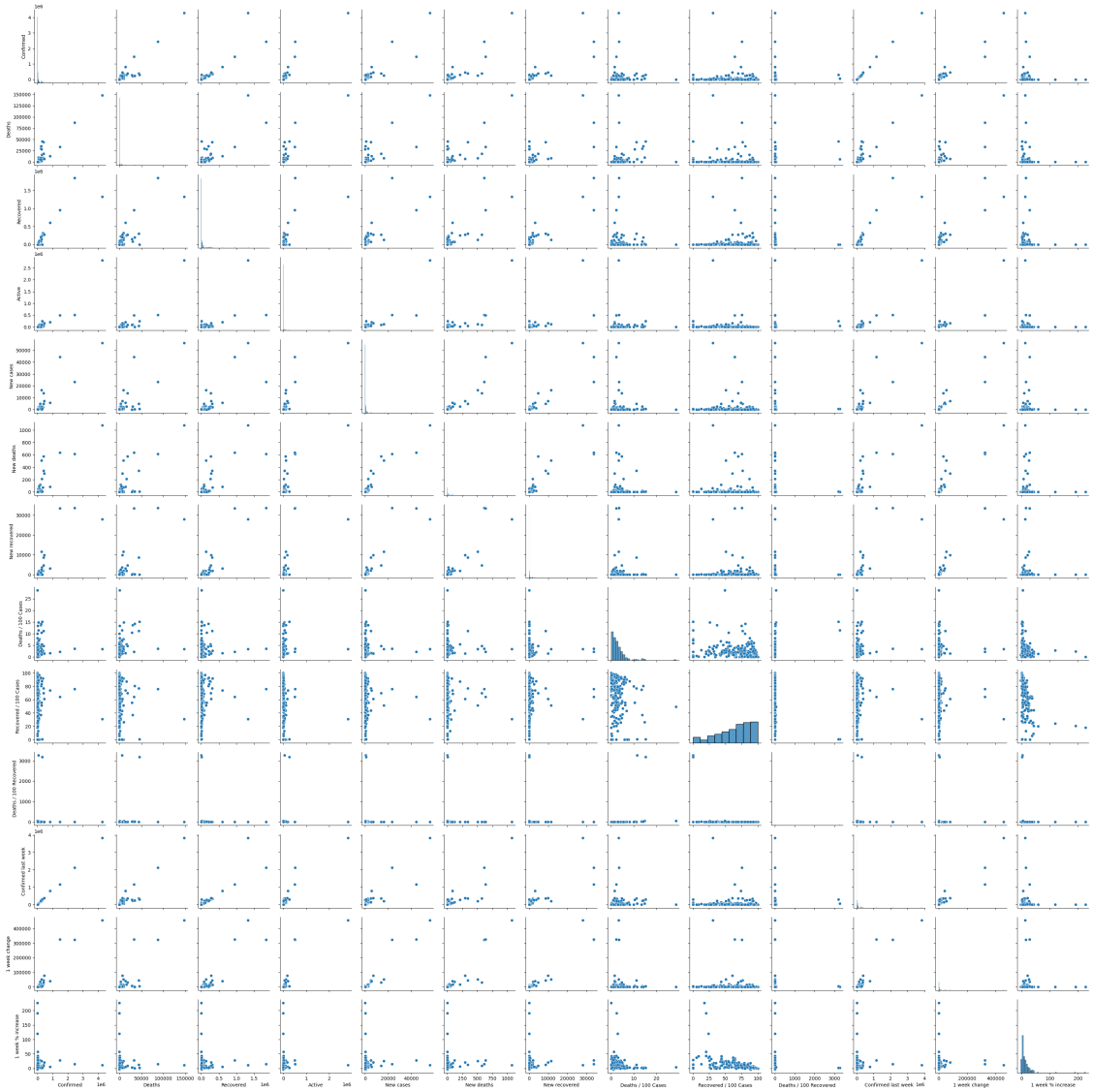
	1 week % increase
count	187.000000
mean	13.606203

```
std            24.509838
min            -3.840000
25%             2.775000
50%             6.890000
75%            16.855000
max           226.320000
```

[9]:
```
df.isnull().sum()
```

[9]:
```
Country/Region            0
Confirmed                 0
Deaths                    0
Recovered                 0
Active                    0
New cases                 0
New deaths                0
New recovered             0
Deaths / 100 Cases        0
Recovered / 100 Cases     0
Deaths / 100 Recovered    0
Confirmed last week       0
1 week change             0
1 week % increase         0
WHO Region                0
dtype: int64
```

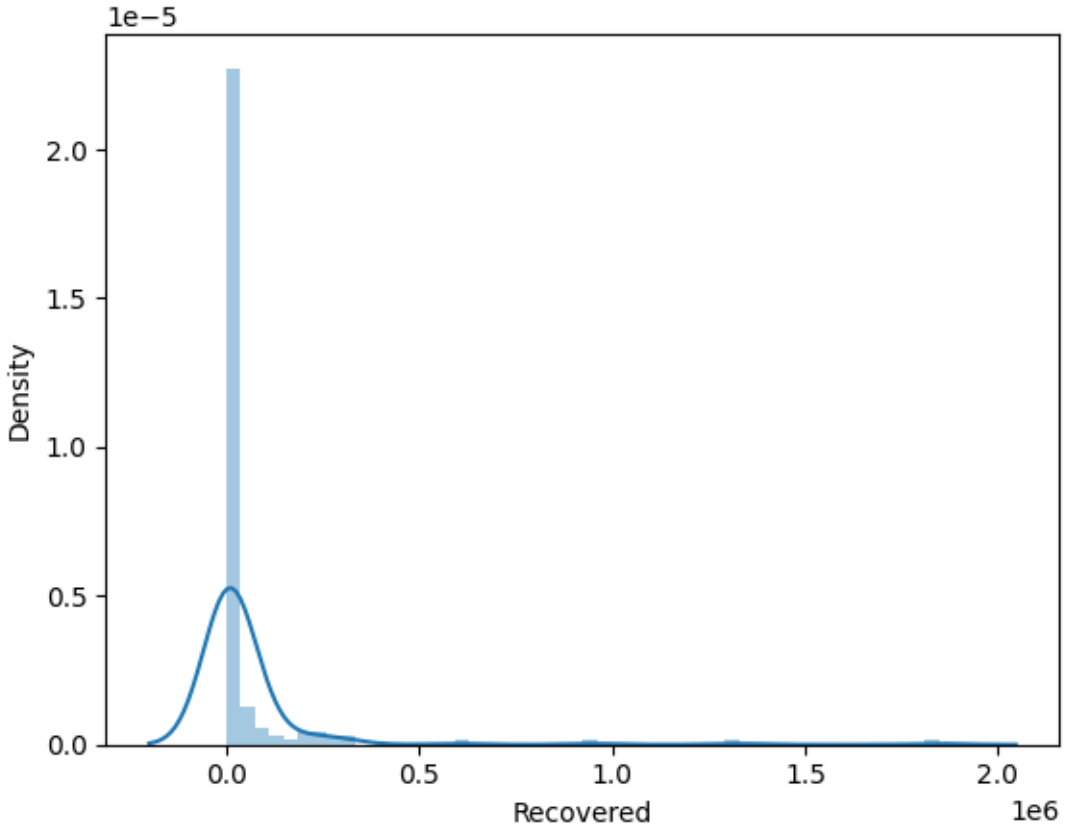
[10]:
```
sns.pairplot(df)
plt.show()
```



[12]:
```
sns.distplot(df['Recovered'])
```

```
<ipython-input-12-2a1a6a52dfa9>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(df['Recovered'])
```

[12]: <Axes: xlabel='Recovered', ylabel='Density'>



[14]:
```
sns.distplot(df['Deaths'])
```

```
<ipython-input-14-ba9ecddcbd66>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
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https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(df['Deaths'])
```
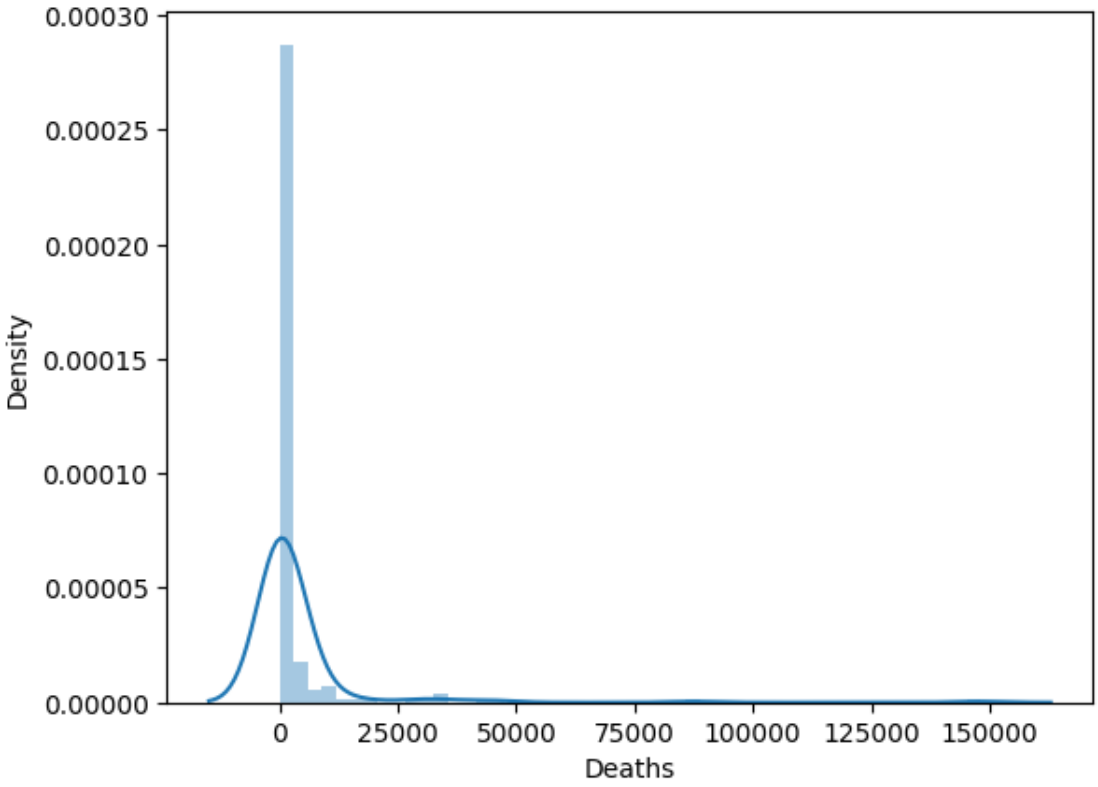
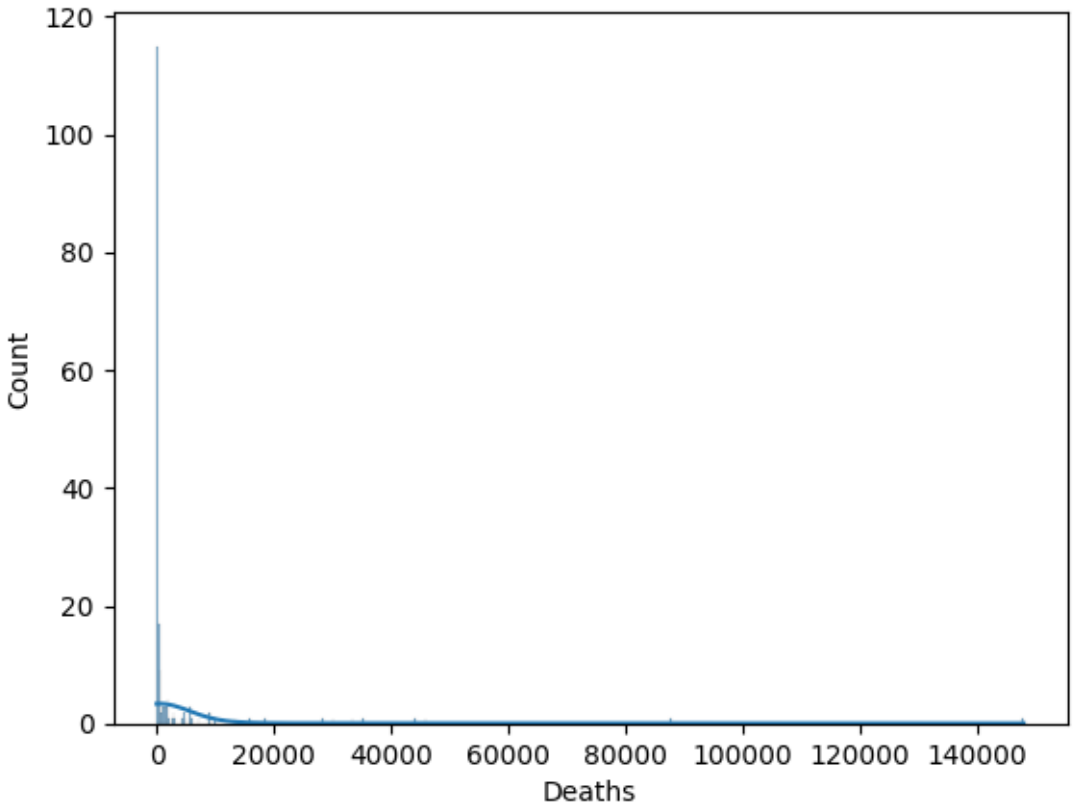
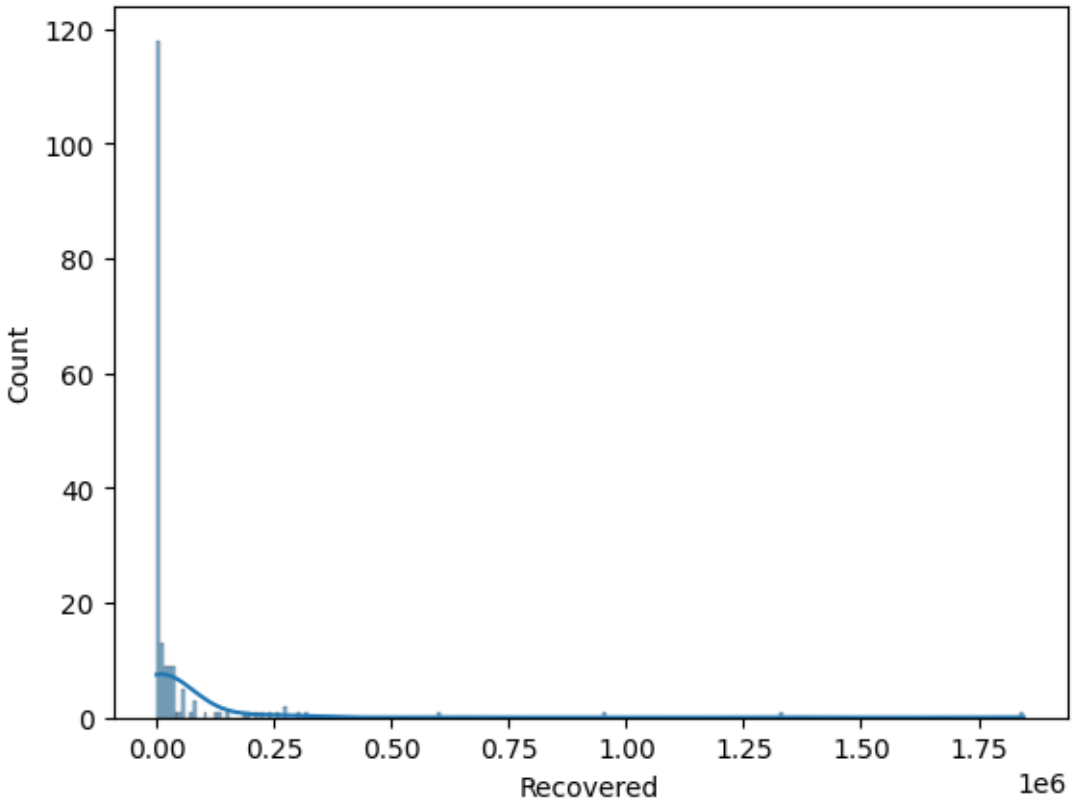

[14]: <Axes: xlabel='Deaths', ylabel='Density'>



[15]:
```
sns.histplot(df, x="Deaths", kde=True)
plt.show()
```

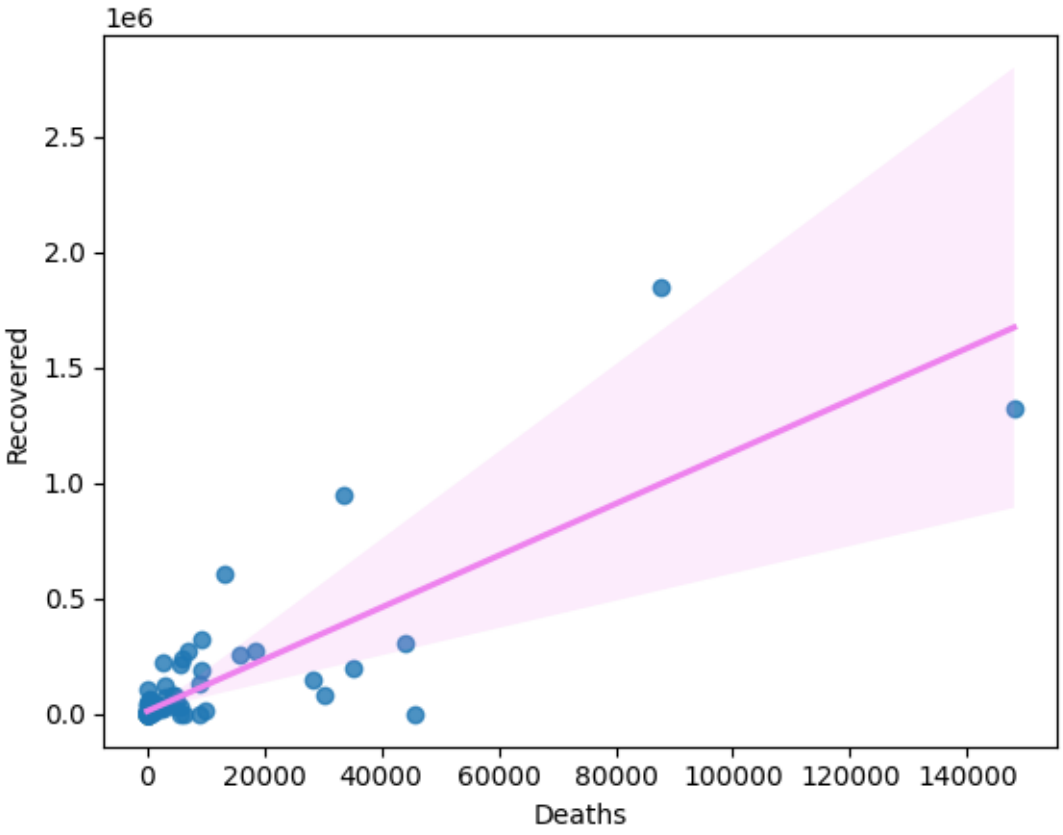


[16]:
```
sns.histplot(df, x="Recovered", kde=True)
plt.show()
```

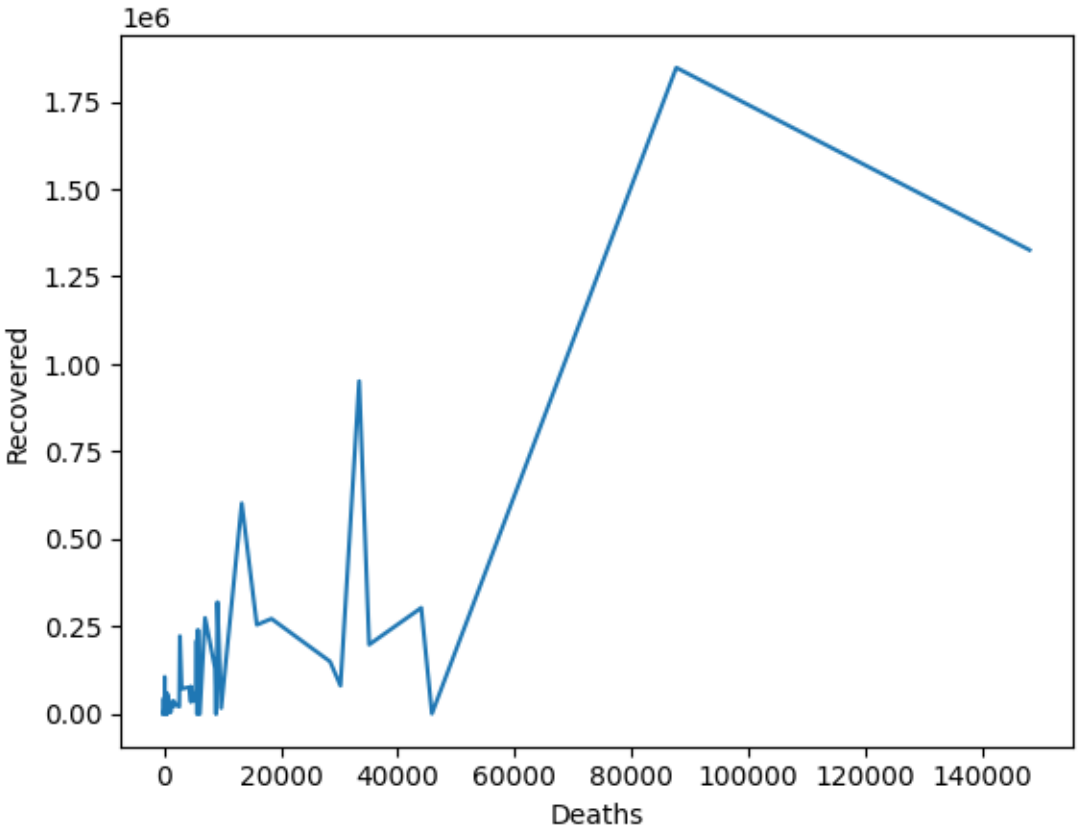


[17]:
```
sns.regplot(x='Deaths',y='Recovered',data=df,line_kws={"color":"violet"})
```

[17]:
```
<Axes: xlabel='Deaths', ylabel='Recovered'>
```

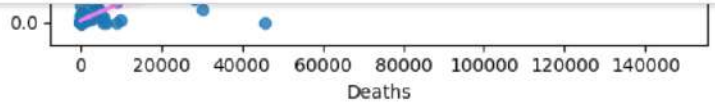


[18]:
```
sns.lineplot(x='Deaths',y='Recovered',data=df)
plt.show()
```

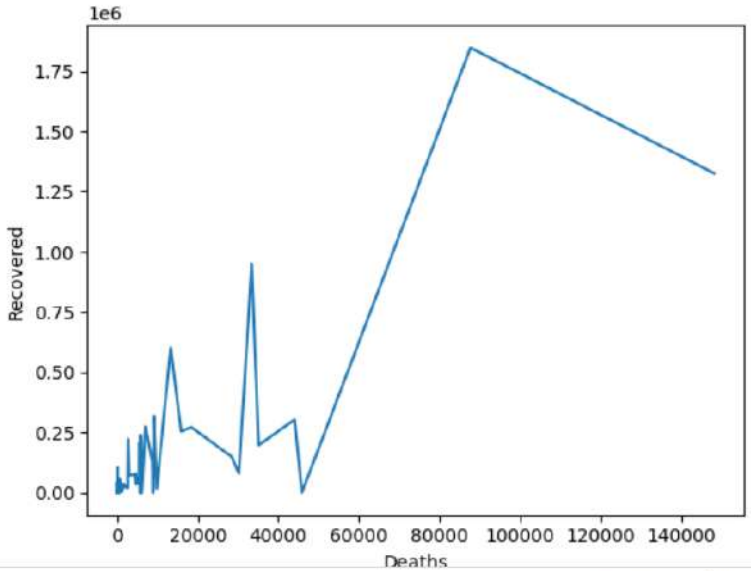

1e6
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Recovered
0
20000
40000
60000
80000
100000
120000
140000
Deaths

[ ]:

[17]




```
sns.lineplot(x='Deaths',y='Recovered',data=df)
plt.show()
```



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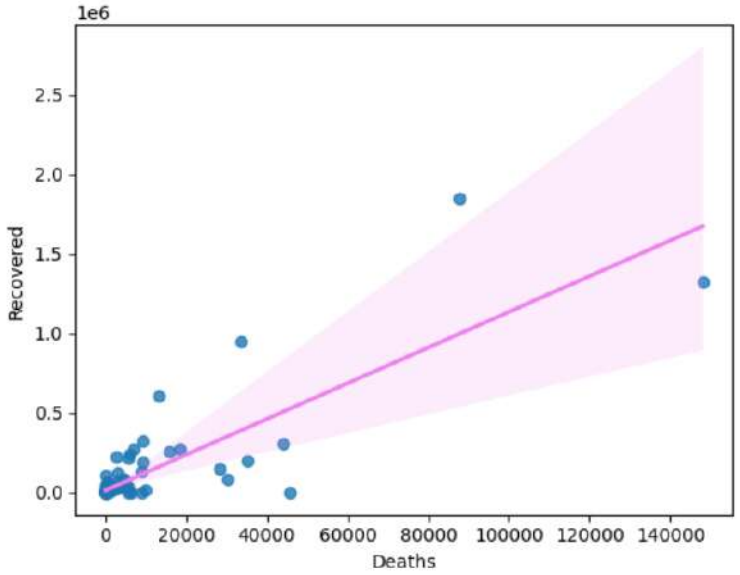
```
sns.regplot(x='Deaths',y='Recovered',data=df,line_kws={"color":"violet"})
```

```
<Axes: xlabel='Deaths', ylabel='Recovered'>
```




```
[18] sns.lineplot(x='Deaths',y='Recovered',data=df)
     plt.show()
```

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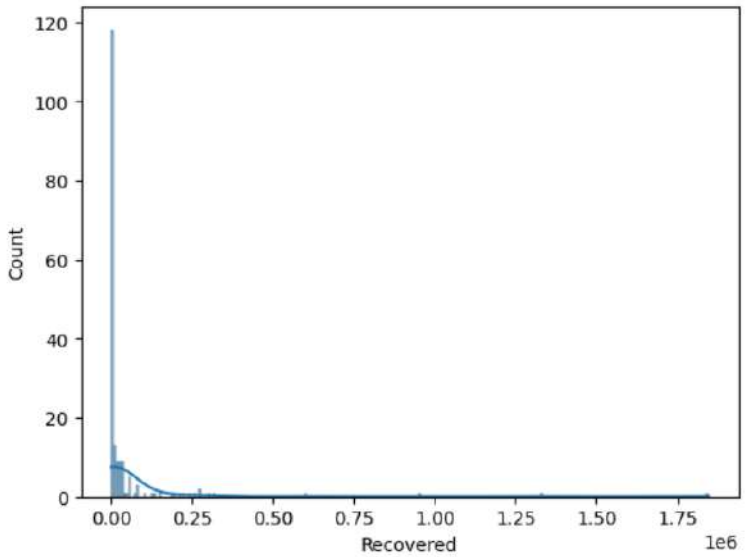
```
sns.histplot(df, x="Recovered", kde=True)
plt.show()
```




```
[17] sns.regplot(x='Deaths',y='Recovered',data=df,line_kws={"color":"violet"})
```

```
<Axes: xlabel='Deaths', ylabel='Recovered'>
```

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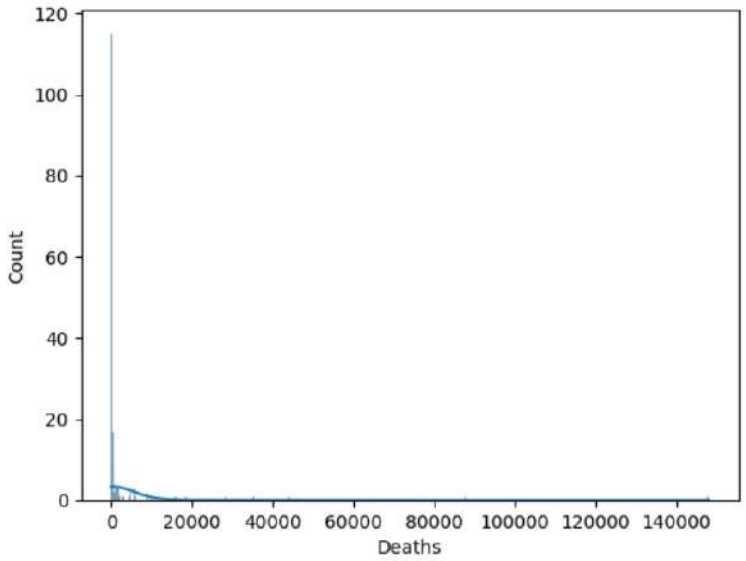
```
sns.histplot(df, x="Deaths", kde=True)
plt.show()
```




```
[16] sns.histplot(df, x="Recovered", kde=True)
     plt.show()
```

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```
sns.distplot(df['Deaths'])
```

```
<ipython-input-14-ba9ecddcbd66>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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  sns.distplot(df['Deaths'])
<Axes: xlabel='Deaths', ylabel='Density'>
```

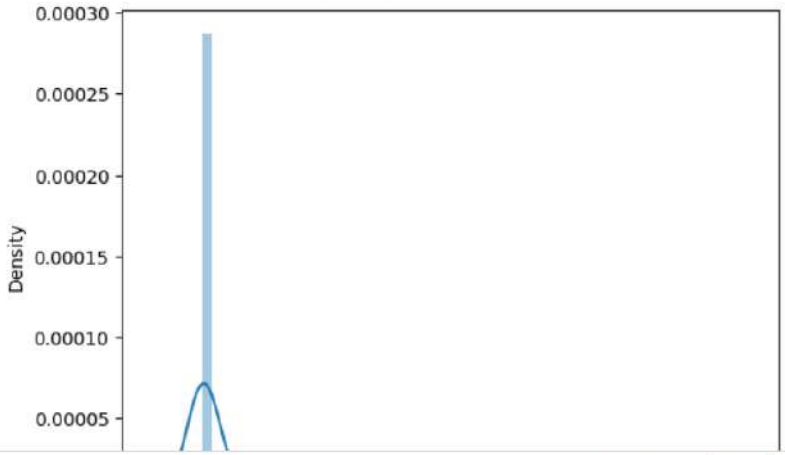

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```
sns.distplot(df['Recovered'])
```

```
<ipython-input-12-2a1a6a52dfa9>:1: UserWarning:

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  sns.distplot(df['Recovered'])
<Axes: xlabel='Recovered', ylabel='Density'>
```

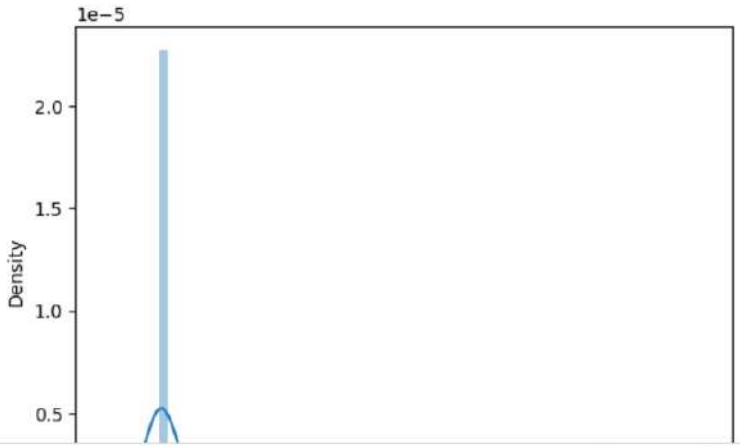

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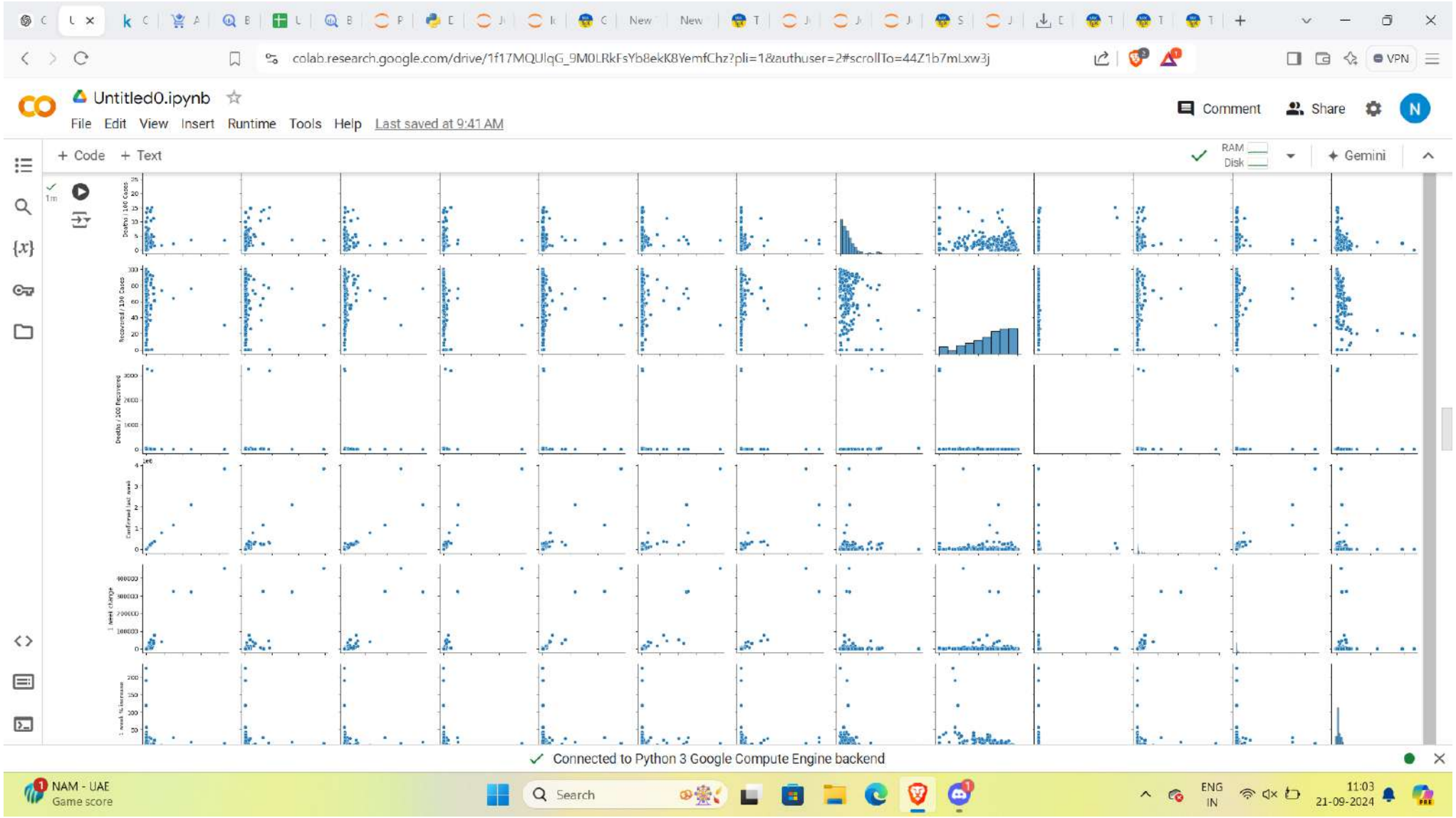
colab.research.google.com/drive/1f17MQUlqG_9M0LRkFsYb8ekK8YemfChz?pli=1&authuser=2#scrollTo=44Z1b7mLxw3j
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Deaths / 100 Cases
Recovered / 100 Cases
Deaths / 100 Recovered
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1 week % increase
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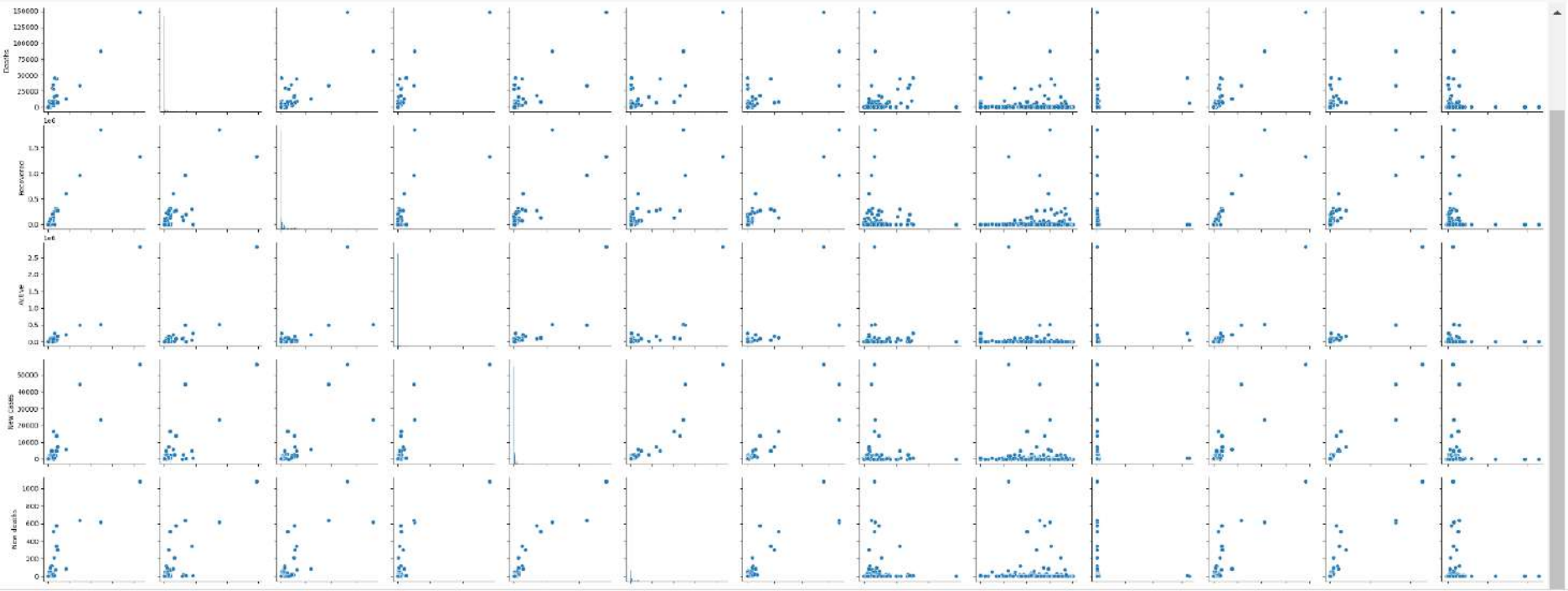
```
sns.pairplot(df)
plt.show()
```



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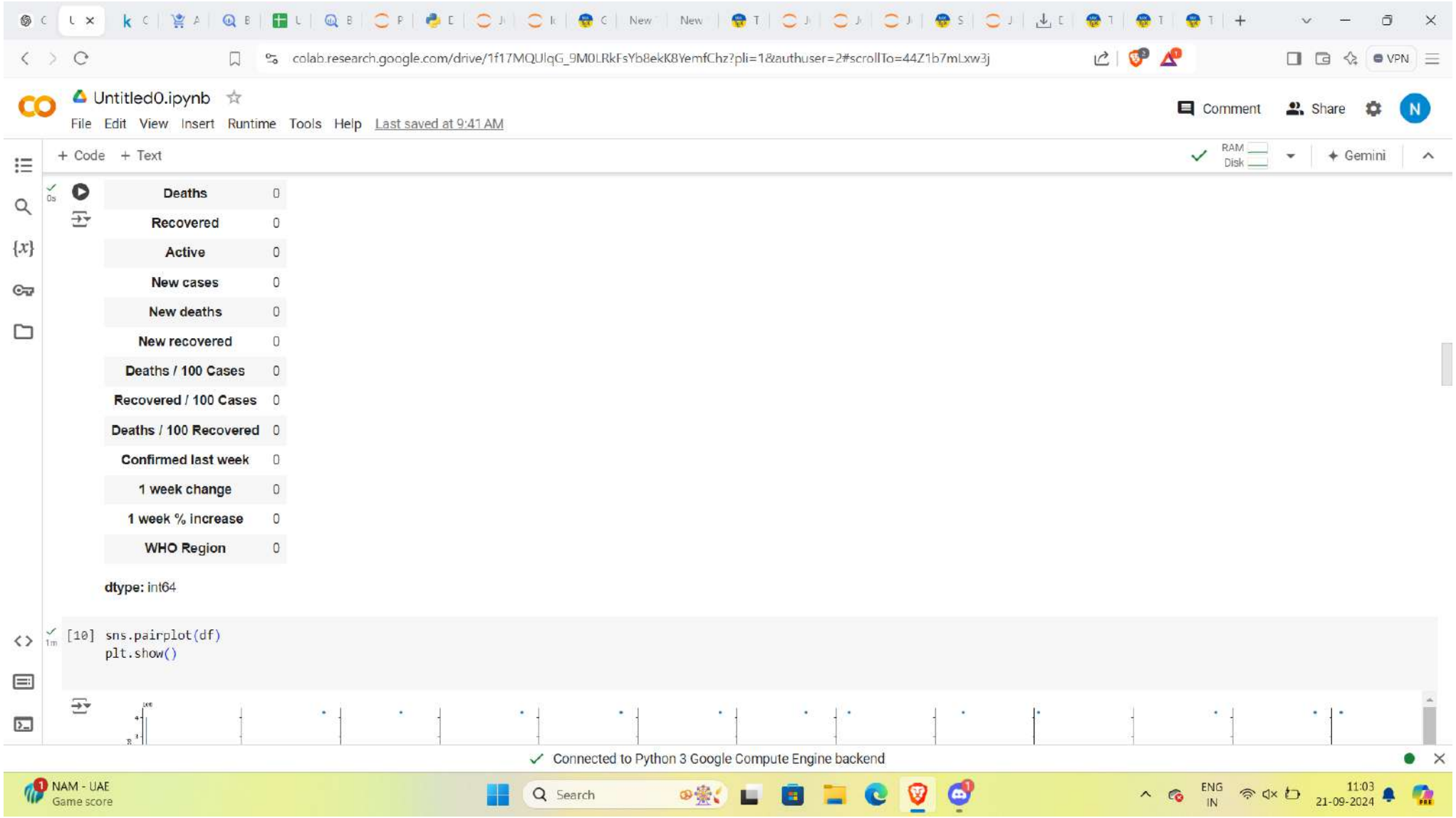
colab.research.google.com/drive/1f17MQUlqG_9M0LRkFsYb8ekK8YemfChz?pli=1&authuser=2#scrollTo=44Z1b7mLxw3j
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RAM
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Gemini
Deaths 0
Recovered 0
Active 0
New cases 0
New deaths 0
New recovered 0
Deaths / 100 Cases 0
Recovered / 100 Cases 0
Deaths / 100 Recovered 0
Confirmed last week 0
1 week change 0
1 week % increase 0
WHO Region 0
dtype: int64
[10] sns.pairplot(df)
plt.show()
Connected to Python 3 Google Compute Engine backend
NAM - UAE
Game score
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ENG
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21-09-2024

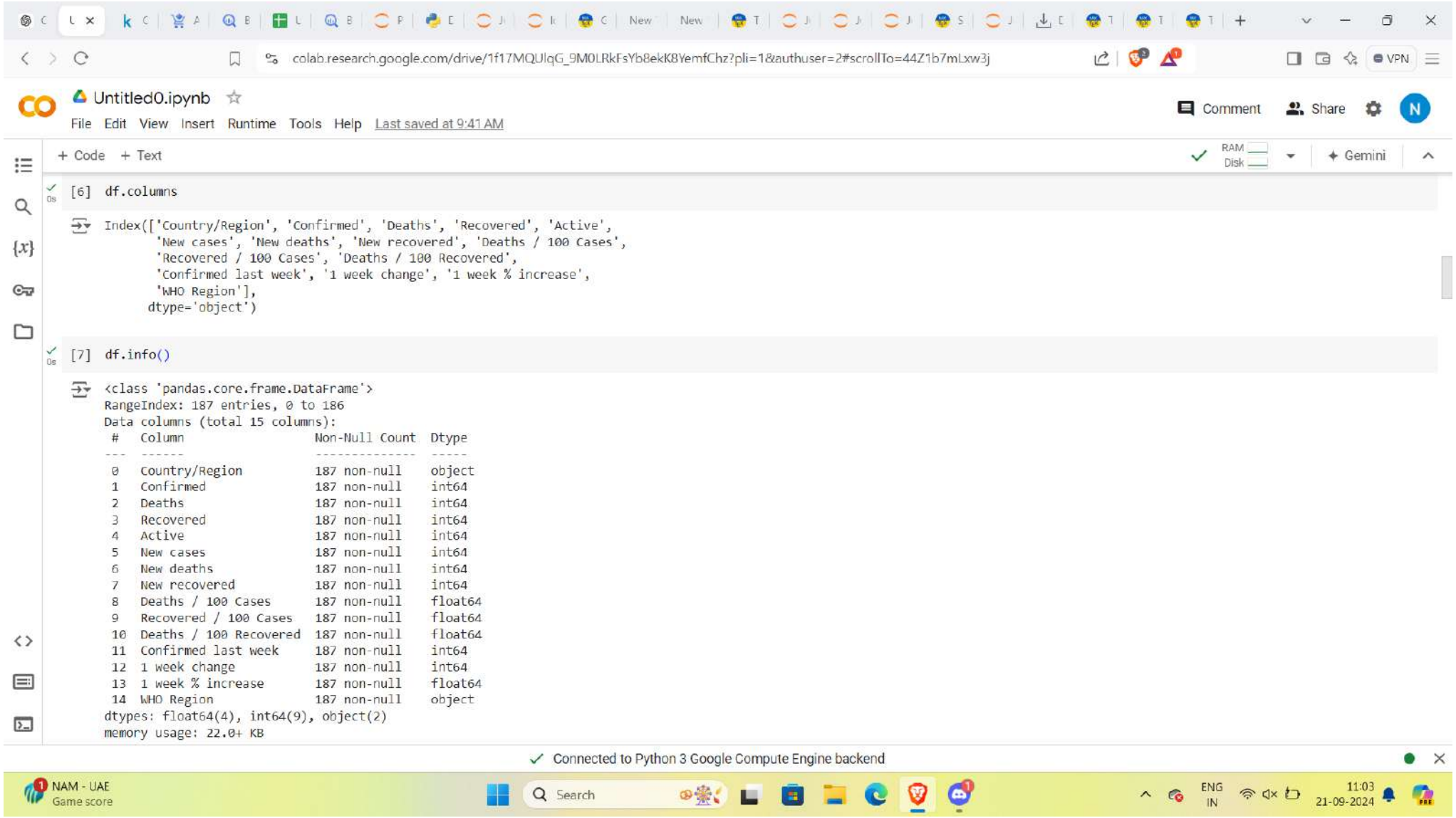
[8] `df.describe()`

```
/usr/local/lib/python3.10/dist-packages/pandas/core/nanops.py:1010: RuntimeWarning: invalid value encountered in subtract
  sqr = _ensure_numeric((avg - values) ** 2)
/usr/local/lib/python3.10/dist-packages/pandas/core/nanops.py:1010: RuntimeWarning: invalid value encountered in subtract
  sqr = _ensure_numeric((avg - values) ** 2)
```

	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase
count	1.870000e+02	187.000000	1.870000e+02	1.870000e+02	187.000000	187.000000	187.000000	187.000000	187.000000	187.00	1.870000e+02	187.000000	187.000000
mean	8.813094e+04	3497.518717	5.063148e+04	3.400194e+04	1222.957219	28.957219	933.812834	3.019519	64.820535	inf	7.868248e+04	9448.459893	13.606203
std	3.833187e+05	14100.002482	1.901882e+05	2.133262e+05	5710.374790	120.037173	4197.719635	3.454302	26.287694	NaN	3.382737e+05	47491.127684	24.509838
min	1.000000e+01	0.000000	0.000000e+00	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	0.00	1.000000e+01	-47.000000	-3.840000
25%	1.114000e+03	18.500000	6.265000e+02	1.415000e+02	4.000000	0.000000	0.000000	0.945000	48.770000	1.45	1.051500e+03	49.000000	2.775000
50%	5.059000e+03	108.000000	2.815000e+03	1.600000e+03	49.000000	1.000000	22.000000	2.150000	71.320000	3.62	5.020000e+03	432.000000	6.890000
75%	4.046050e+04	734.000000	2.260600e+04	9.149000e+03	419.500000	6.000000	221.000000	3.875000	86.885000	6.44	3.708050e+04	3172.000000	16.855000
max	4.290259e+06	148011.000000	1.846641e+06	2.816444e+06	56336.000000	1076.000000	33728.000000	28.560000	100.000000	inf	3.834677e+06	455582.000000	226.320000

[9] `df.isnull().sum()`

	0
Country/Region	0
Confirmed	0


colab.research.google.com/drive/1f17MQUlqG_9M0LRkFsYb8ekK8YemfChz?pli=1&authuser=2#scrollTo=44Z1b7mLxw3j
Untitled0.ipynb
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Gemini
[6] df.columns
Index(['Country/Region', 'Confirmed', 'Deaths', 'Recovered', 'Active',
'New cases', 'New deaths', 'New recovered', 'Deaths / 100 Cases',
'Recovered / 100 Cases', 'Deaths / 100 Recovered',
'Confirmed last week', '1 week change', '1 week % increase',
'WHO Region'],
dtype='object')
[7] df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 187 entries, 0 to 186
Data columns (total 15 columns):
Column Non-Null Count Dtype
0 Country/Region 187 non-null object
1 Confirmed 187 non-null int64
2 Deaths 187 non-null int64
3 Recovered 187 non-null int64
4 Active 187 non-null int64
5 New cases 187 non-null int64
6 New deaths 187 non-null int64
7 New recovered 187 non-null int64
8 Deaths / 100 Cases 187 non-null float64
9 Recovered / 100 Cases 187 non-null float64
10 Deaths / 100 Recovered 187 non-null float64
11 Confirmed last week 187 non-null int64
12 1 week change 187 non-null int64
13 1 week % increase 187 non-null float64
14 WHO Region 187 non-null object
dtypes: float64(4), int64(9), object(2)
memory usage: 22.0+ KB
Connected to Python 3 Google Compute Engine backend
NAM - UAE
Game score
Search
ENG
IN
11:03
21-09-2024

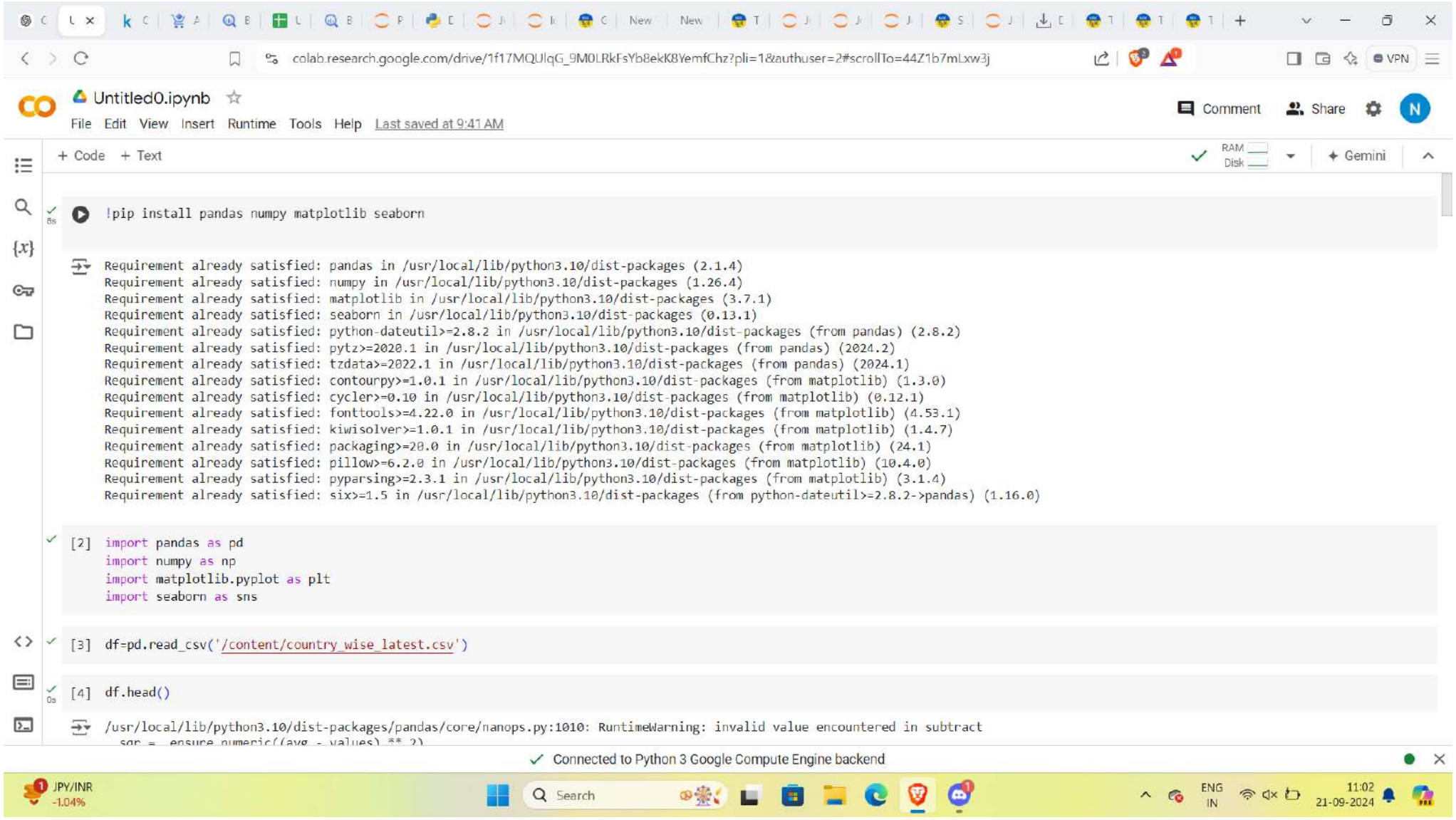
[4]

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean
1	Albania	4880	144	2745	1991	117	6	63	2.95	56.25	5.25	4171	709	17.00	Europe
2	Algeria	27973	1163	18837	7973	616	8	749	4.16	67.34	6.17	23691	4282	18.07	Africa
3	Andorra	907	52	803	52	10	0	0	5.73	88.53	6.48	884	23	2.60	Europe
4	Angola	950	41	242	667	18	1	0	4.32	25.47	16.94	749	201	26.84	Africa

[5]
```
df.tail()
```

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
182	West Bank and Gaza	10621	78	3752	6791	152	2	0	0.73	35.33	2.08	8916	1705	19.12	Eastern Mediterranean
183	Western Sahara	10	1	8	1	0	0	0	10.00	80.00	12.50	10	0	0.00	Africa
184	Yemen	1691	483	833	375	10	4	36	28.56	49.26	57.98	1619	72	4.45	Eastern Mediterranean
185	Zambia	4552	140	2815	1597	71	1	465	3.08	61.84	4.97	3326	1226	36.86	Africa
186	Zimbabwe	2704	36	542	2126	192	2	24	1.33	20.04	6.64	1713	991	57.85	Africa

[6]
```
df.columns
```


colab.research.google.com/drive/1f17MQUlqG_9M0LRkFsYb8ekK8YemfChz?pli=1&authuser=2#scrollTo=44Z1b7mLxw3j
Untitled0.ipynb
File Edit View Insert Runtime Tools Help Last saved at 9:41 AM
Comment
Share
+ Code + Text
RAM
Disk
Gemini
!pip install pandas numpy matplotlib seaborn
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (2.1.4)
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (1.26.4)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.10/dist-packages (3.7.1)
Requirement already satisfied: seaborn in /usr/local/lib/python3.10/dist-packages (0.13.1)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.1)
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.3.0)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (4.53.1)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.4.7)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (24.1)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (10.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (3.1.4)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
[2] import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
[3] df=pd.read_csv('/content/country_wise_latest.csv')
[4] df.head()
/usr/local/lib/python3.10/dist-packages/pandas/core/nanops.py:1010: RuntimeWarning: invalid value encountered in subtract
Connected to Python 3 Google Compute Engine backend
JPY/INR
-1.04%
Search
ENG
IN
11:02
21-09-2024