FAO_Practice_graphs

January 12, 2022

[ ]:
```
import numpy as np
import pandas as pd
import seaborn as sns
import plotly.express as px
import matplotlib.pyplot as plt
```

0.1 Annual Producer price (USD/tonne) of Wheat in different countries

[ ]:
```
import plotly.express as px
df1= pd.read_csv("PP.csv")
fig = px.area(df1, x="Year", y="Value", color="Area" , title='Annual Producer␣
 ↪price (USD/tonne) of Wheat in different countries ')
fig.show()
```

0.1.1 Annual Producer price (USD/tonne) of Different Agricultural products in Pakistan

[ ]:
```
import plotly.express as px
df2= pd.read_csv("DAP.csv")
fig = px.line(df2, x="Year", y="Value", color="Item", line_group="Area",␣
 ↪hover_name="Area",
        line_shape="spline", render_mode="svg", title='Annual Producer price␣
 ↪(USD/tonne) of different Argricultural products in Pakistan')
fig.show()
```

0.2 Annual Population of Pakistan {Unit = 1000}

[ ]:
```
import plotly.express as px
df3= pd.read_csv("POP.csv")

fig = px.scatter(df3, x="Year", y="Value",
                 color="Element",
                hover_name="Area", log_x=True, size_max=60 ,title='Annual␣
 ↪Population of Pakistan {Unit = 1000}')
fig.show()
```

1 Annual Emission of diffferent gases in pakistan

[ ]:
```
import plotly.express as px
df4= pd.read_csv("POL.csv")
fig = px.box(df4, x="Year", y="Value", color="Element", notched=True␣
 ↪,title='Annual Emission of diffferent gases in pakistan')
fig.show()
```

[ ]:
```
import plotly.express as px
import statsmodels.api as sm
df4= pd.read_csv("POL.csv")

(px.scatter(df4, x="Year", y="Value", color="Element",
            facet_col="Element", trendline="ols",
            title="Annual Emmissions of Different Gasses in Pakistan")
 .update_layout(title_font_size=24)
 .update_xaxes(showgrid=False)
 .update_traces(
     line=dict(dash="dot", width=4),
     selector=dict(type="scatter", mode="lines"))
).show()
```

2 Annual CO2 Emmissions beacause of coal in different countries

[ ]:
```
import plotly.express as px
df4= pd.read_csv("CEC.csv")
fig = px.scatter(df4, x="Year", y="Value", color="Area", marginal_y="violin",
           marginal_x="box", trendline="ols", template="simple_white", ␣
 ↪title="Annual CO2 Emmissions beacause of coal in different countries")
fig.show()
```

3 Export value of different animals from pakistan

[ ]:
```
import plotly.express as px
df5= pd.read_csv("AE.csv") #.query("Year == 2007")
fig = px.pie(df5, values='Value', names='Item', title='Export value of␣
 ↪different animals from pakistan')
fig.show()
```