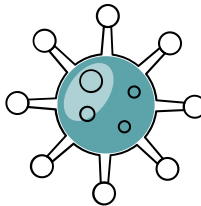
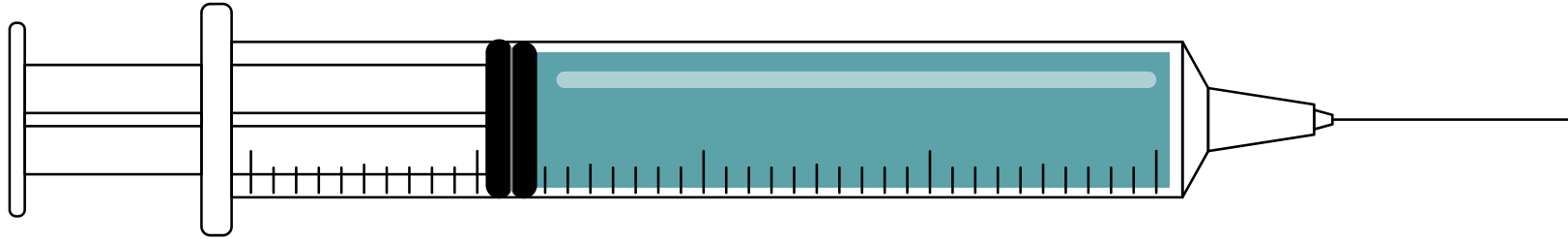


COVID 19 CASES ANALYSIS



TEAM MEMBERS

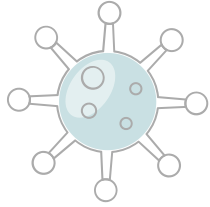
R.VISHNU

C.PRIYA DHARSINI

P.VINOTH KUMAR

S.SUJITHKUMAR

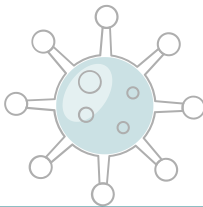
A.STEPHEN KOVIL PILLAI

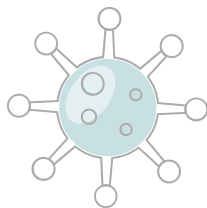


INTRODUCTION



IN THIS PRESENTATION ,WE ANALYSE AND CREATE A CHARTS
AND GRAPHS BY USING IBM COGNOS ANALYZE THE
VISUALIZATIONS TO IDENTIFY TRENDS,VARIATIONS,AND
POTENTIAL CORRELATIONS BETWEEN CASES AND DEATHS.

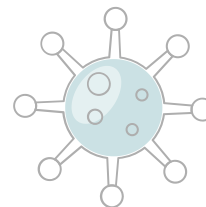


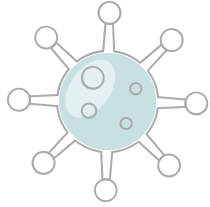


EXPLORE AND VISUALIZING



YOU CAN ALSO USE VARIOUS CHARTS AND GRAPHS, SUCH AS HISTOGRAMS, SCATTER PLOTS, BOX PLOTS, AND HEAT MAPS, TO DISPLAY THE DATA. BY EXPLORING AND VISUALIZING THE DATA, YOU CAN IDENTIFY POTENTIAL PATTERNS AND TRENDS, SUCH AS OUTLIERS, CLUSTERS, CORRELATIONS, AND CHANGES OVER TIME

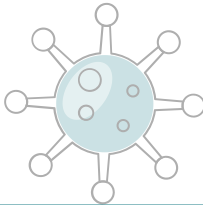


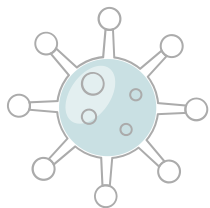


TRENDS RATE



TO DETECT AN INCREASING TREND USING LINEAR REGRESSION, YOU CAN FIT A LINEAR REGRESSION MODEL TO THE TIME SERIES DATA AND PERFORM A STATISTICAL TEST ON THE ESTIMATED COEFFICIENT (SLOPE). IF THE COEFFICIENT IS SIGNIFICANTLY POSITIVE, IT INDICATES THAT THE TIME SERIES HAS AN INCREASING TREND. 19-MAY-2023

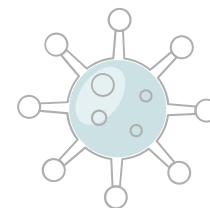
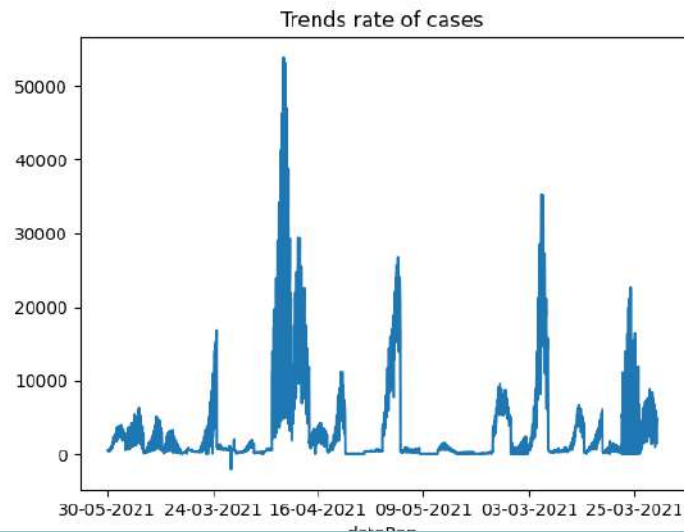


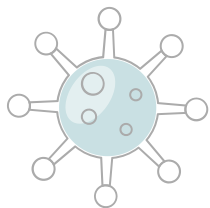


VISUALIZING TRENDS RATE



```
plt.title("Trends rate of cases")
selected.plot()
plt.show()
```

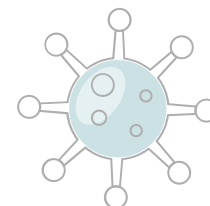
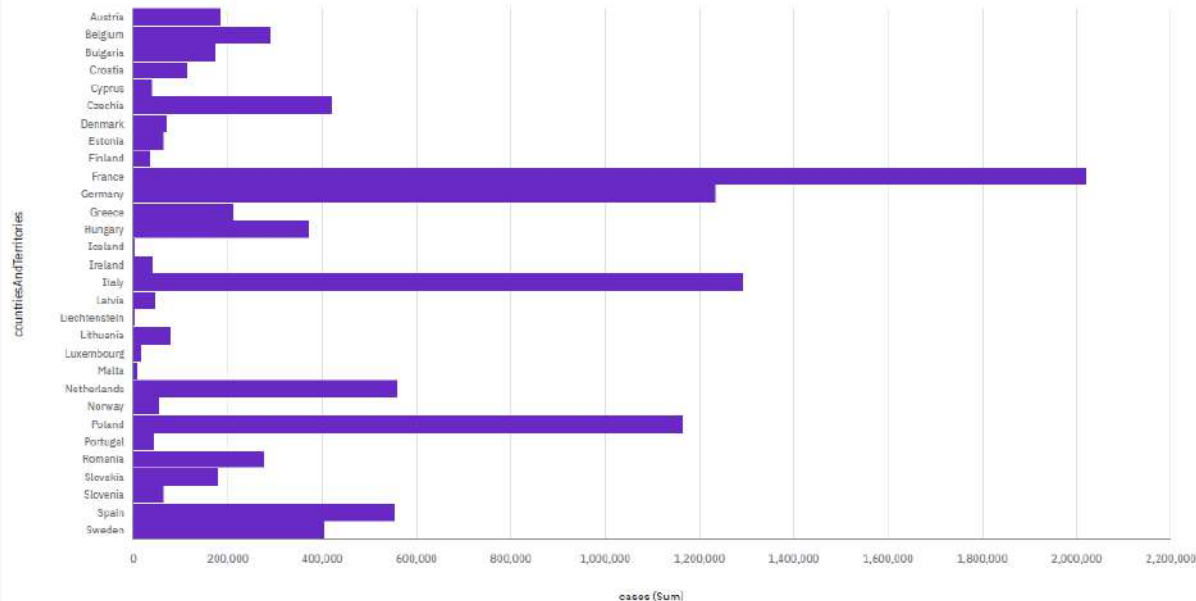


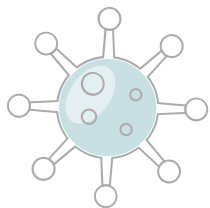


TRENDS RATE OF CASES

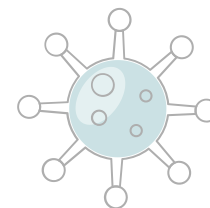
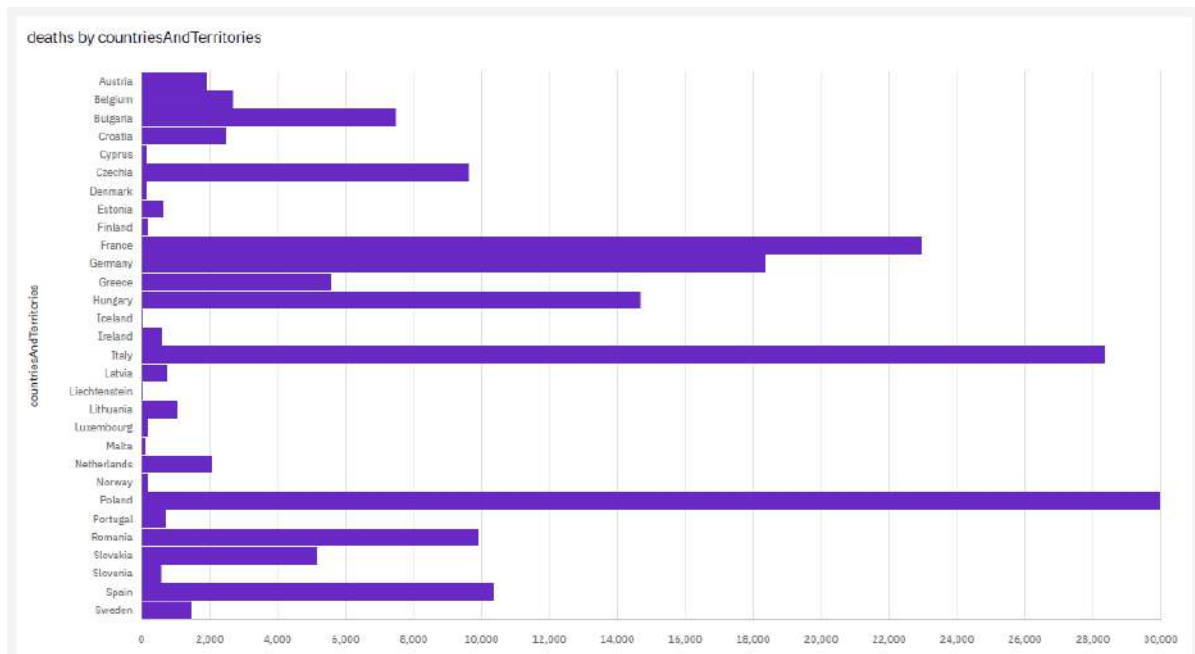


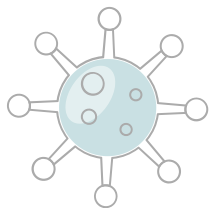
cases by countriesAndTerritories



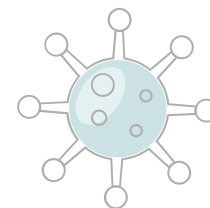
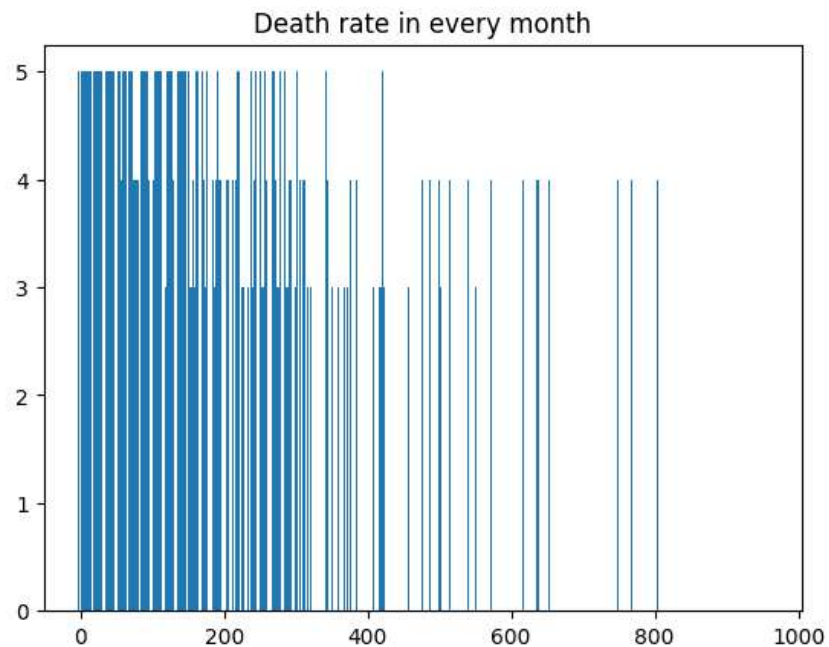


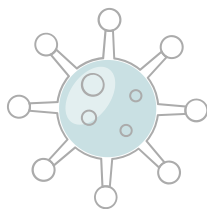
TRENDS RATE OF DEATHS





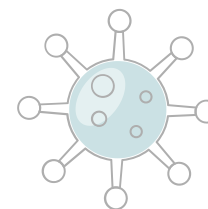
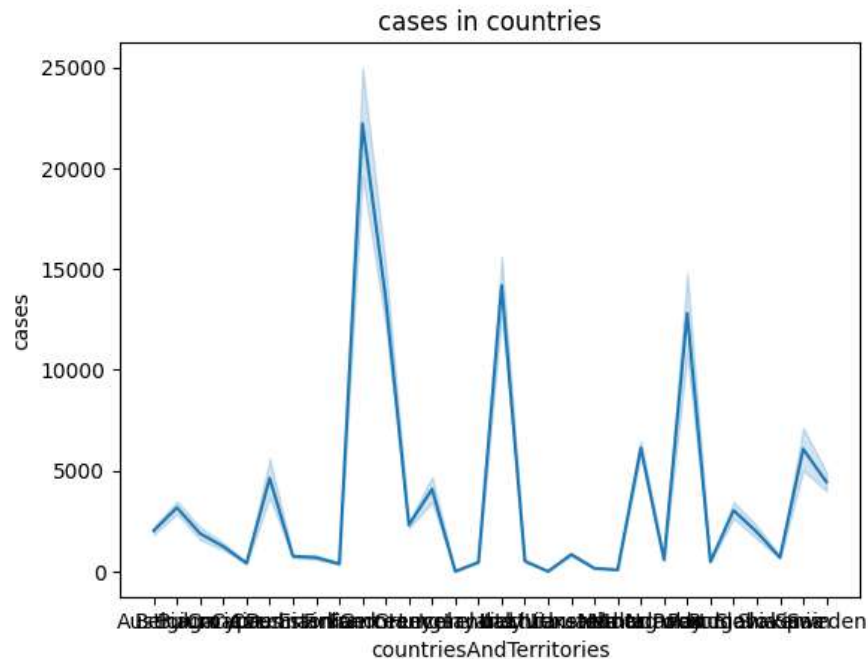
```
[62]: plt.bar(org,org2)
plt.title("Death rate in every month")
plt.show()
```

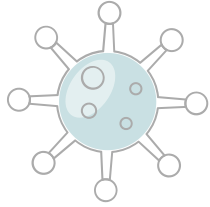




```
[8]: import seaborn as sns
plt.title("cases in countries")
sns.lineplot(x=y, y=x, data=fcdata)
```

```
[8]: <Axes: title={'center': 'cases in countries'}, xlabel='countriesAndTerritories', ylabel='cases'>
```

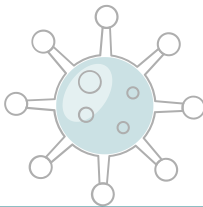


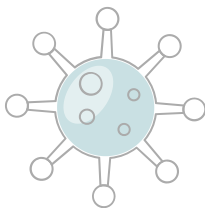


VARIATIONS IN DATASET



STANDARD DEVIATION, STD OR STDEV, IS A DESCRIPTIVE STATISTIC THAT MEASURES THE DISPERSION OF A DATASET RELATIVE TO ITS MEAN AND IS CALCULATED AS THE SQUARE ROOT OF THE VARIANCE

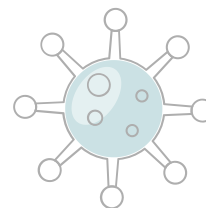
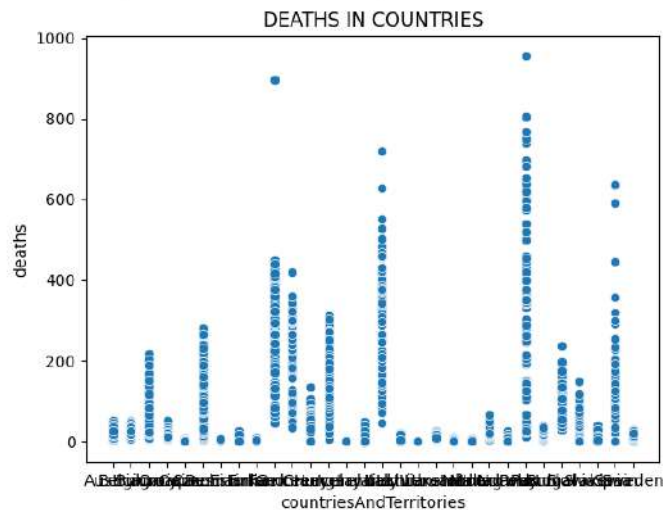


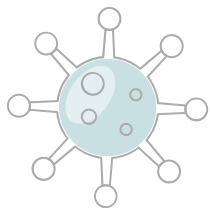


VISUALIZING VARIATIONS

```
[9]: z=fdata.deaths
plt.title("DEATHS IN COUNTRIES")
sns.scatterplot(x=y,z,data=fdata)

[9]: <Axes: title=[ 'center': 'DEATHS IN COUNTRIES'], xlabel='countriesAndTerritories', ylabel='deaths'>
```

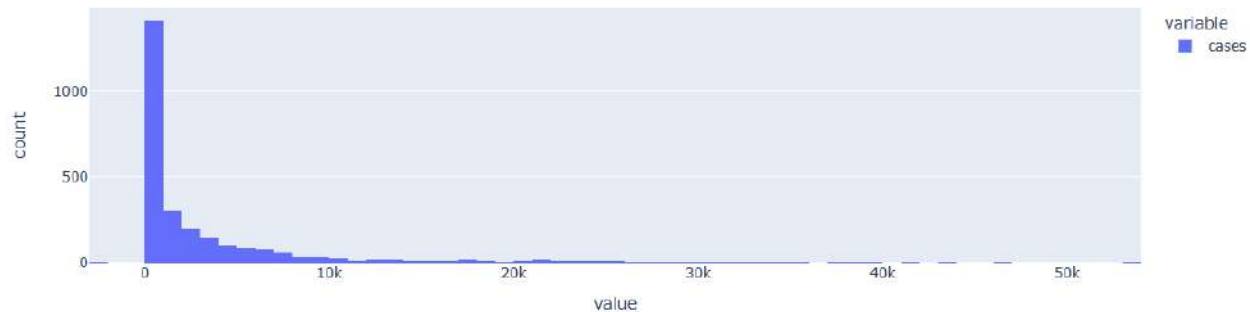




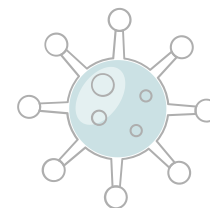
VISUALIZING VARIATIONS

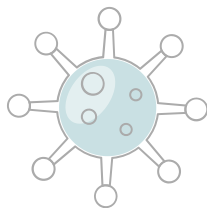


```
[19]: fig=px.histogram(fcdata.cases)
      fig.show()
```



```
[ ]:
```

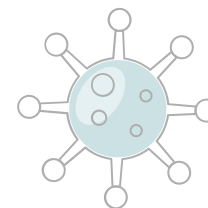
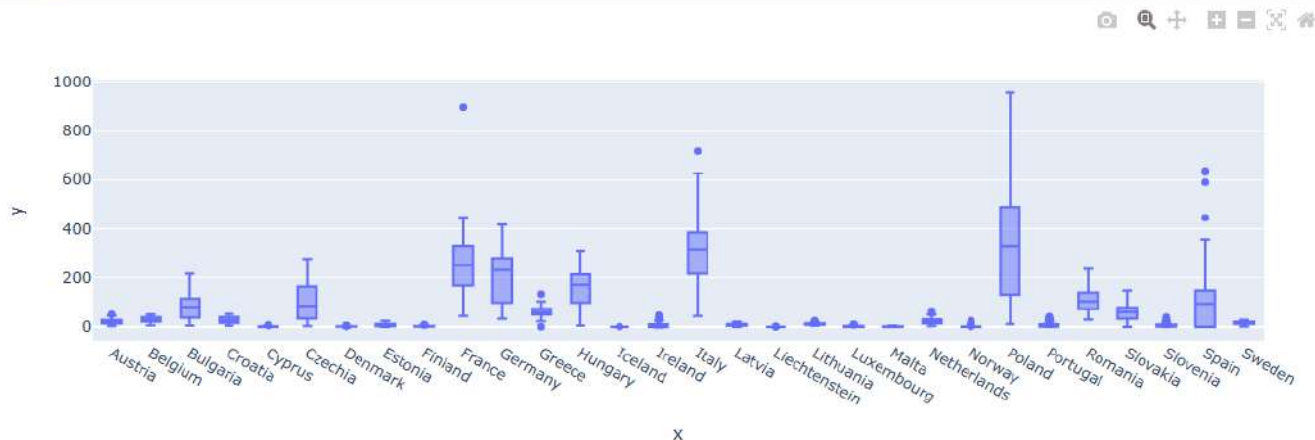


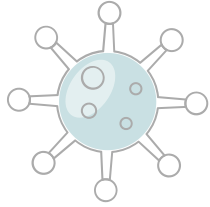


VISUALIZING VARIATIONS



```
] import plotly.express as px
fig=px.box(x=y,y=z)
fig.show()
```

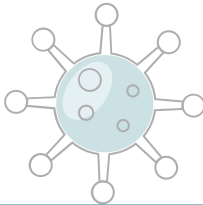


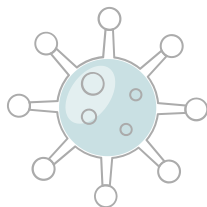


POTENTIAL CORRELATION IN DATASET



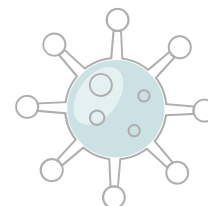
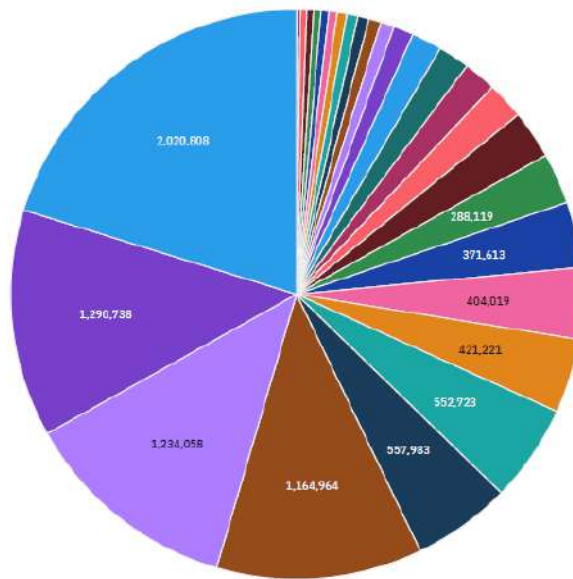
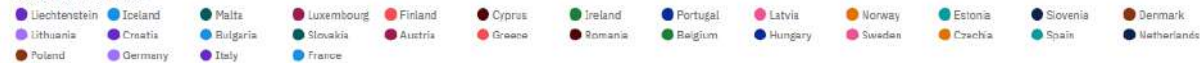
CORRELATION ANALYSIS IS USED TO STUDY PRACTICAL CASES. HERE, THE RESEARCHER CAN'T MANIPULATE INDIVIDUAL VARIABLES. FOR EXAMPLE , CORRELATION ANALYSIS IS USED TO MEASURE THE CORRELATION BETWEEN THE PATIENT'S BLOOD PRESSURE AND THE MEDICATION USED. MARKETERS USE IT TO MEASURE THE EFFECTIVENESS OF ADVERTISING.

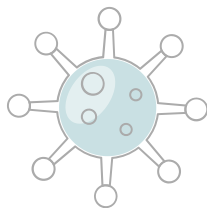




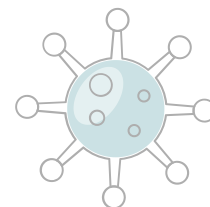
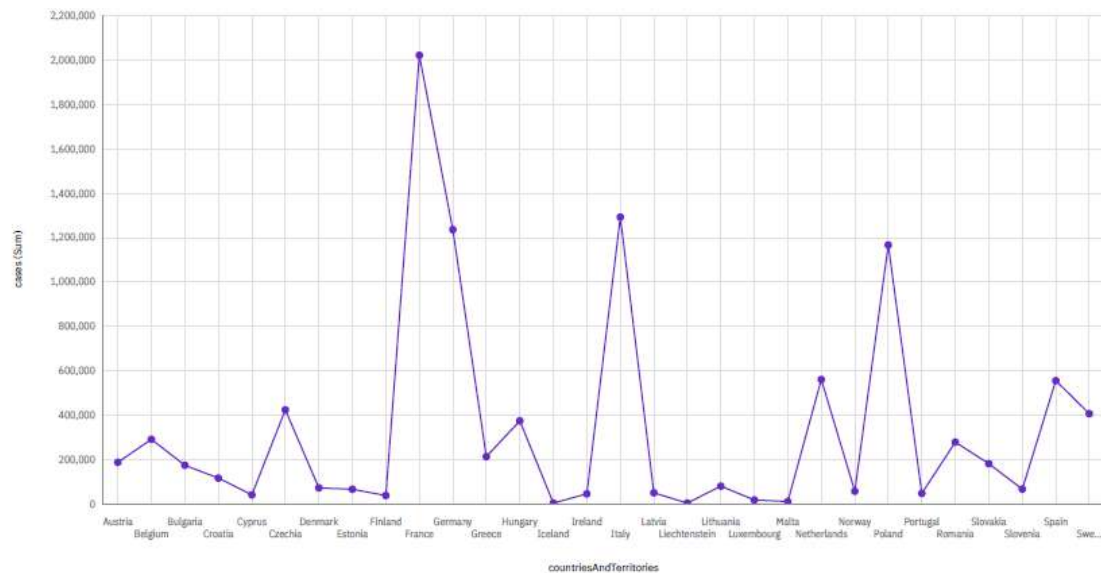
cases by countriesAndTerritories

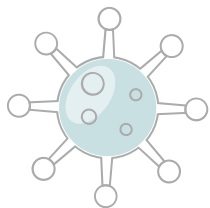
countriesAndTerritories



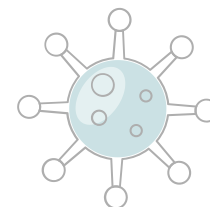
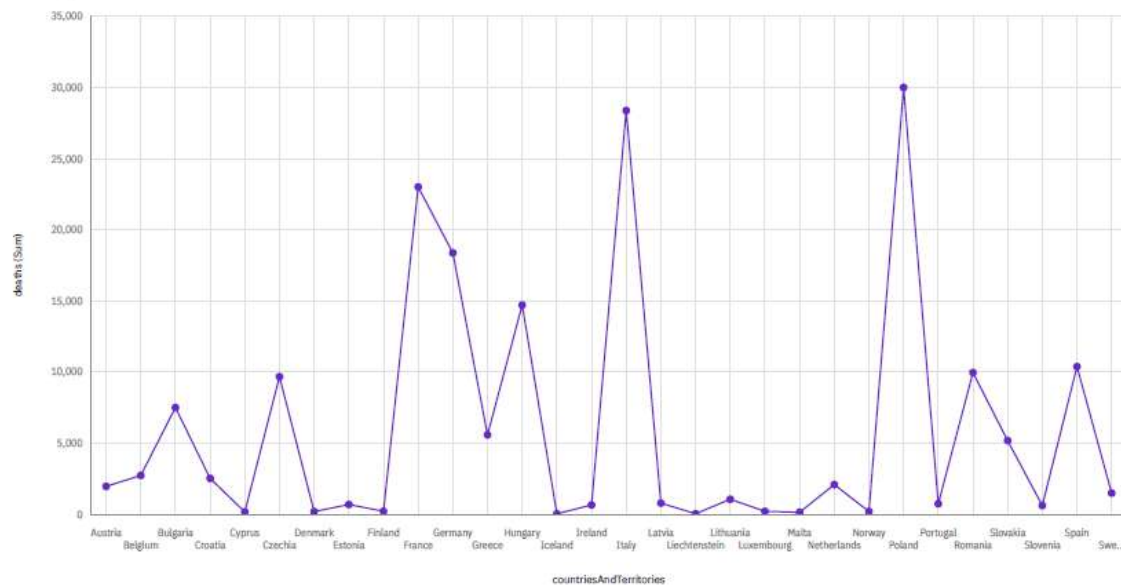


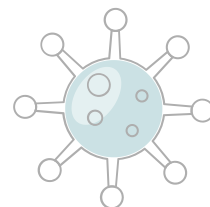
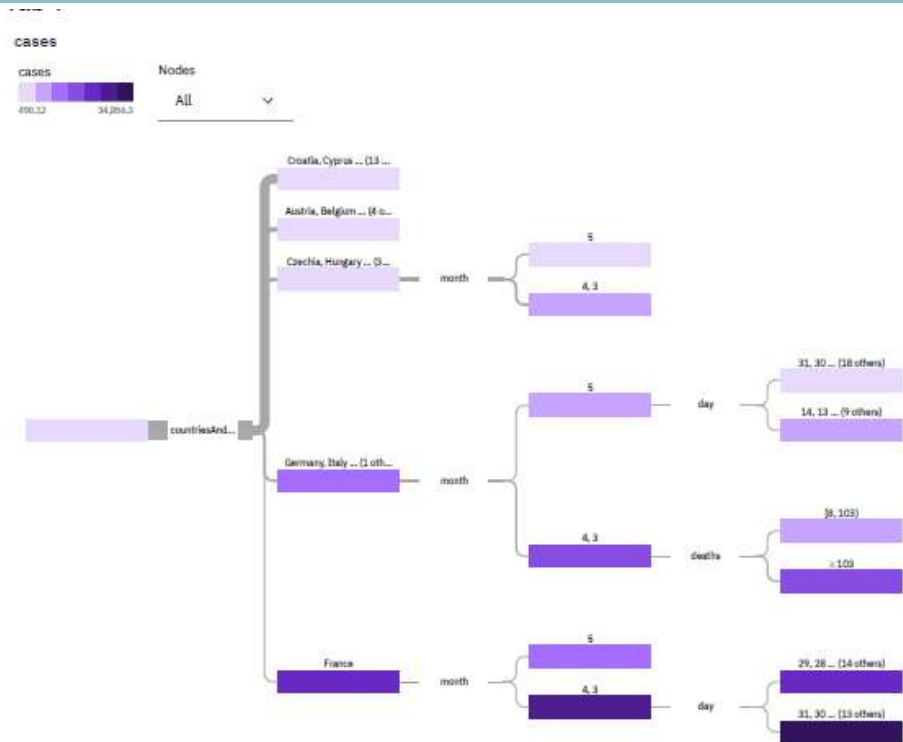
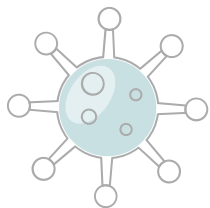
cases by countriesAndTerritories

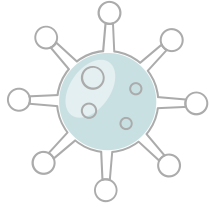




deaths by countriesAndTerritories





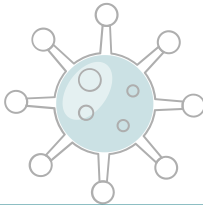


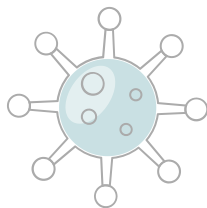
INSIGHTS IN IBM COGNOS



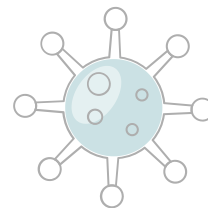
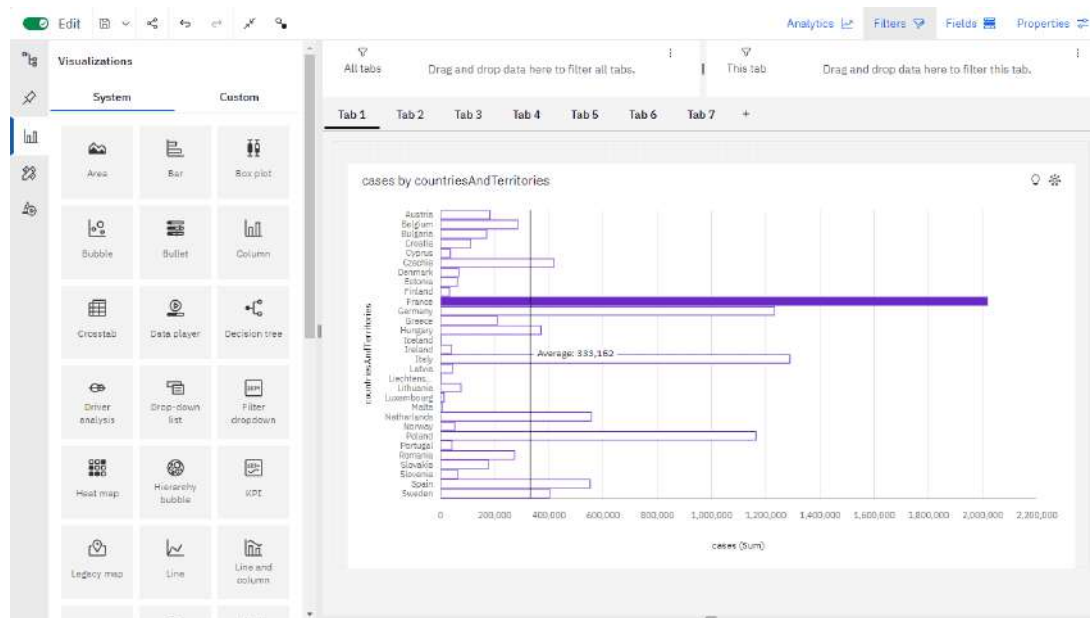
IBM COGNOS INSIGHT PROVIDES ALL THE TOOLS YOU NEED TO SOLVE INDIVIDUAL OR TEAM CHALLENGES QUICKLY AND EASILY, RIGHT FROM YOUR DESKTOP.

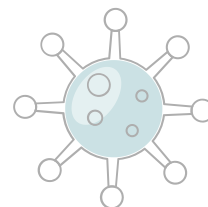
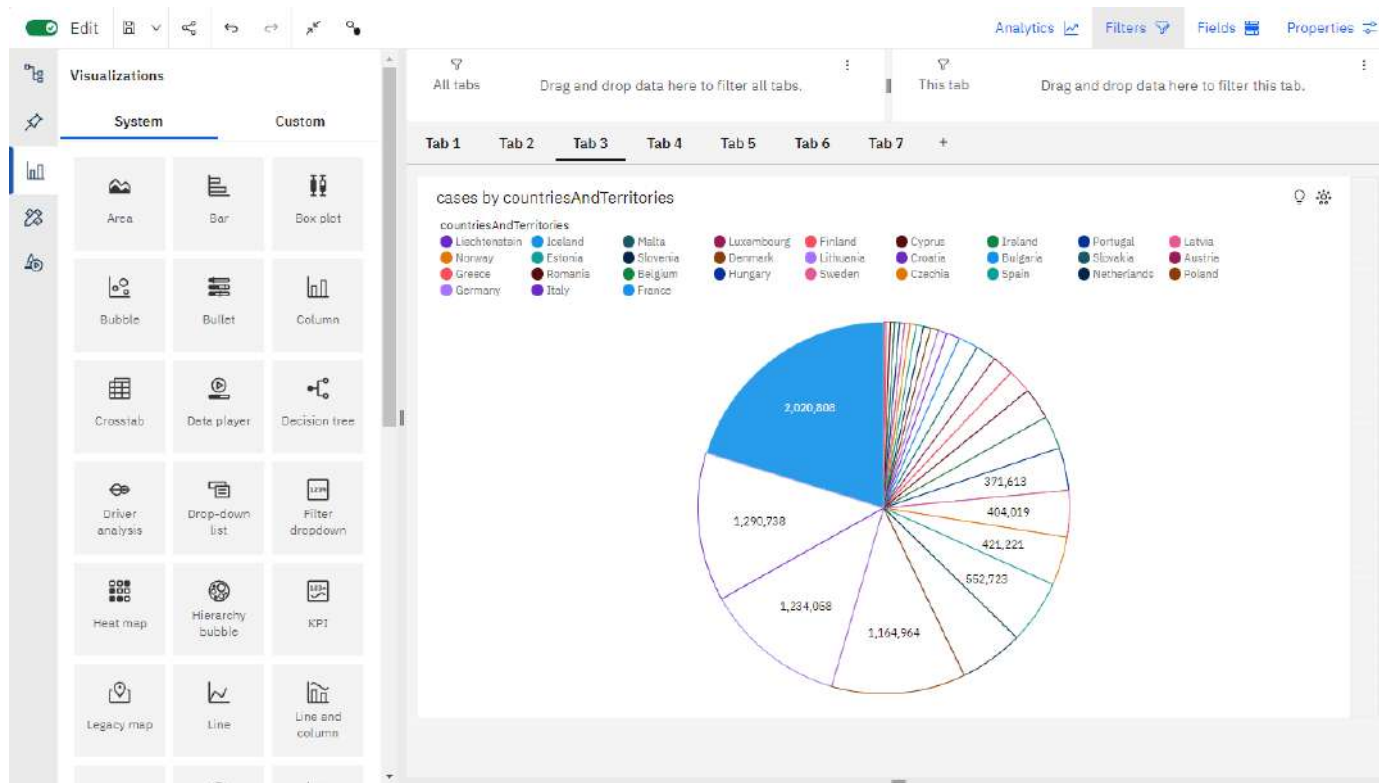
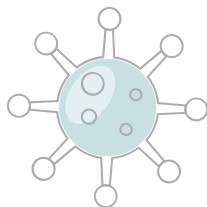
- **IMPORT AND MERGE YOUR CORPORATE ENTERPRISE DATA WITH PERSONAL LOCAL DATA DIRECTLY IN YOUR WORKSPACE.**
- **SLICE, DICE AND DRILL DOWN THROUGH DATA QUICKLY WITHOUT SCRIPTING.**

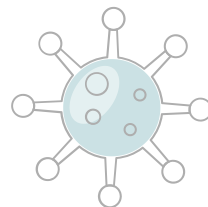
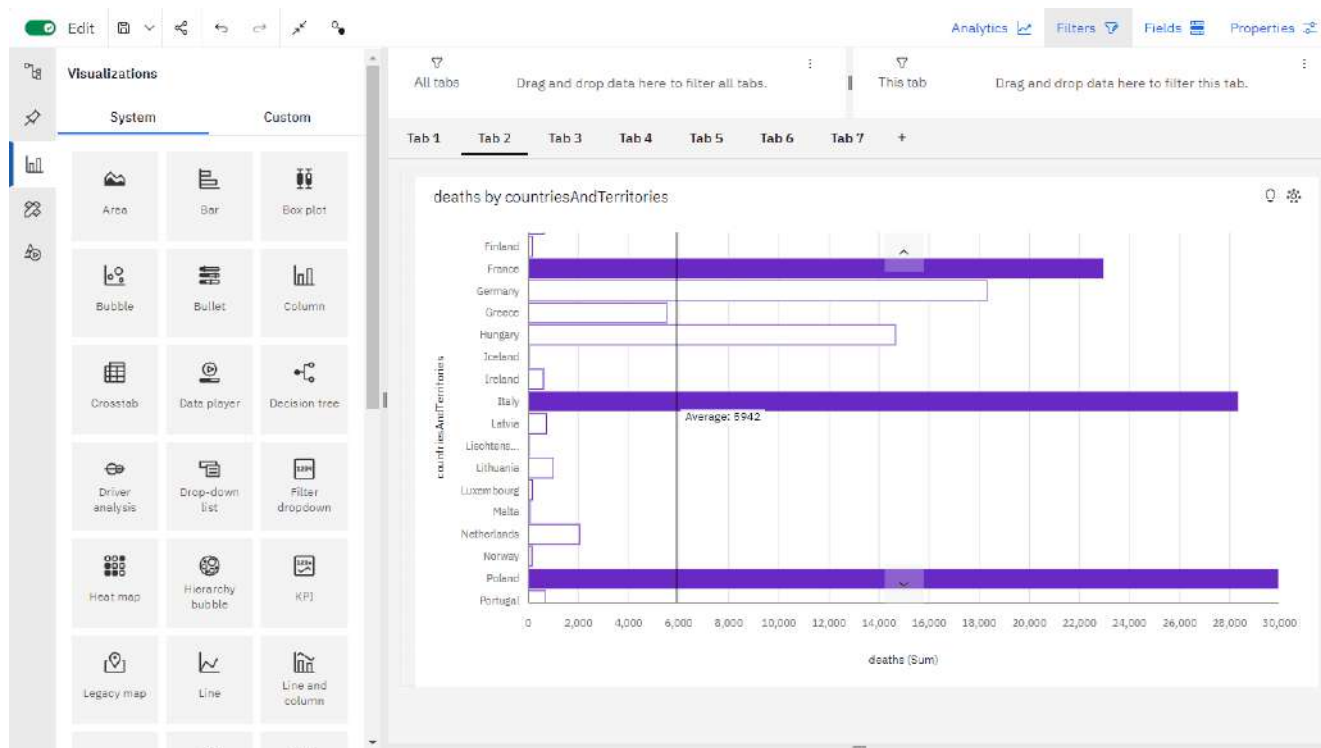
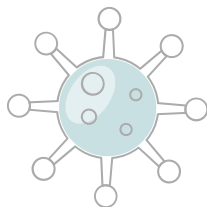


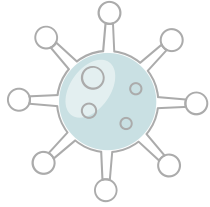


VISUALIZATION OF INSIGHTS









CONCLUSION

THE COVID-19 PANDEMIC HAS HAD A SIGNIFICANT IMPACT ON THE WORLD. IT HAS HIGHLIGHTED THE IMPORTANCE OF PREPAREDNESS, COLLABORATION, AND INNOVATION. WHILE THE FUTURE OUTLOOK IS UNCERTAIN, WE HAVE LEARNED MANY LESSONS THAT WILL HELP US BETTER PREPARE FOR FUTURE PANDEMICS.

