DAC_Phase4

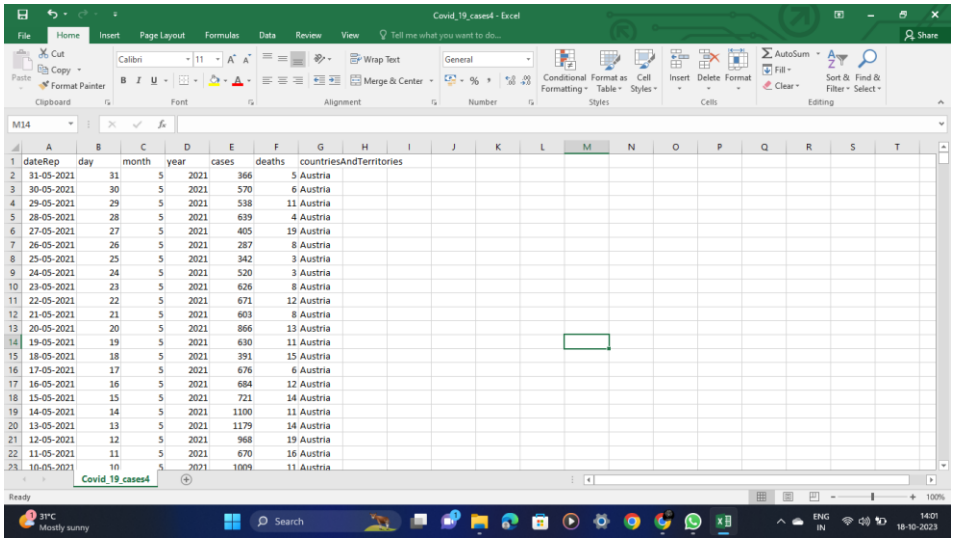
Date	25 October 2023
Team ID	Proj_216191_Team_4
Project Name	COVID-19 cases analysis

Description:

Analyzing the development of COVID-19 cases requires up-to-date data, which I don't have access to beyond September 2021. However, I can provide a general framework for analyzing COVID-19 cases. I can provide you with a general approach to creating visualizations and deriving insights from COVID-19 data using IBM Cognos. Here's a step-by-step guide:

Step 1: Data Preparation

Ensure your COVID-19 data is properly formatted and loaded into IBM Cognos for analysis. Make sure you have separate data columns for cases and deaths, and that the data is sorted by date.



dateRep	day	month	year	cases	deaths	countriesAndTerritories
31-05-2021	31	5	2021	366	5	Austria
30-05-2021	30	5	2021	570	6	Austria
29-05-2021	29	5	2021	538	11	Austria
28-05-2021	28	5	2021	639	4	Austria
27-05-2021	27	5	2021	405	19	Austria
26-05-2021	26	5	2021	287	8	Austria
25-05-2021	25	5	2021	342	3	Austria
24-05-2021	24	5	2021	520	3	Austria
23-05-2021	23	5	2021	626	8	Austria
22-05-2021	22	5	2021	671	12	Austria
21-05-2021	21	5	2021	603	8	Austria
20-05-2021	20	5	2021	866	13	Austria
19-05-2021	19	5	2021	630	11	Austria
18-05-2021	18	5	2021	391	15	Austria
17-05-2021	17	5	2021	676	6	Austria
16-05-2021	16	5	2021	684	12	Austria
15-05-2021	15	5	2021	721	14	Austria
14-05-2021	14	5	2021	1100	11	Austria
13-05-2021	13	5	2021	1179	14	Austria
12-05-2021	12	5	2021	968	19	Austria
11-05-2021	11	5	2021	670	16	Austria
10-05-2021	10	5	2021	1009	11	Austria

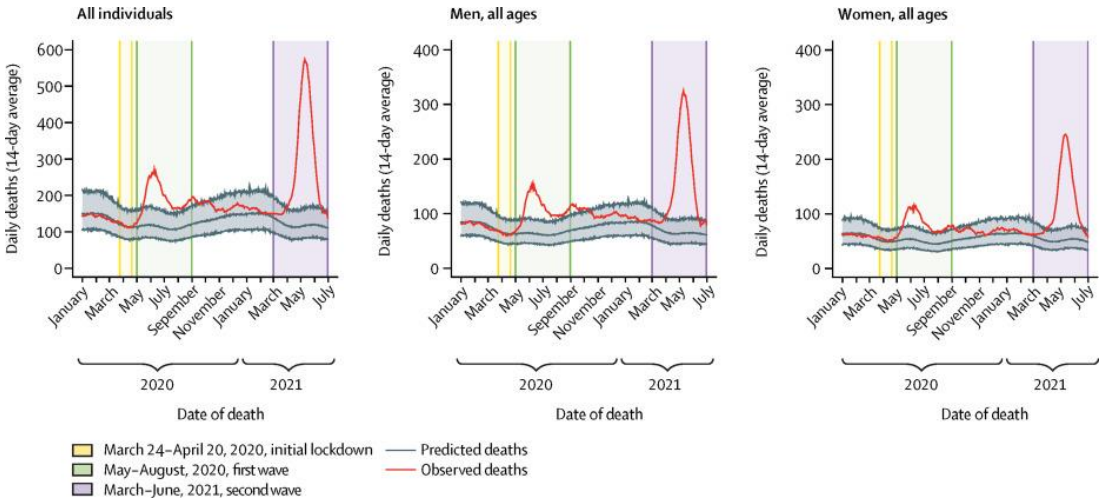
Step2: Create a New Report

Open IBM Cognos and create a new report to work with your COVID-19 data.

Link: https://images.app.goo.gl/HbA57edVBSv8MMou9

Step 3: Select Data Variables

In your report, select the relevant data variables (e.g., "Date," "Cases," "Deaths") for your analysis.



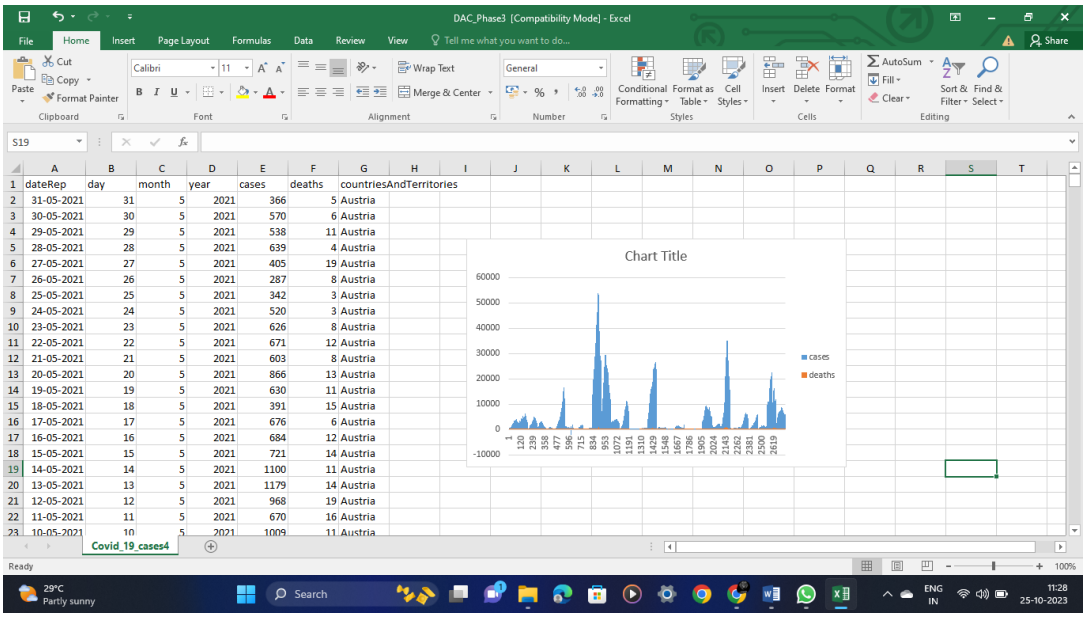
Link : https://images.app.goo.gl/d9rWbSP4rndFeDyC6

Step 4: Create Visualizations

a. For comparing mean values of cases and deaths, you can create a bar chart with "Date" on the x-axis and both "Cases" and "Deaths" on the y-axis.

b. To visualize standard deviations, consider creating error bars or whisker plots to show the variability around the mean values.

c. You can also create a line chart to show the trends in cases and deaths over time.



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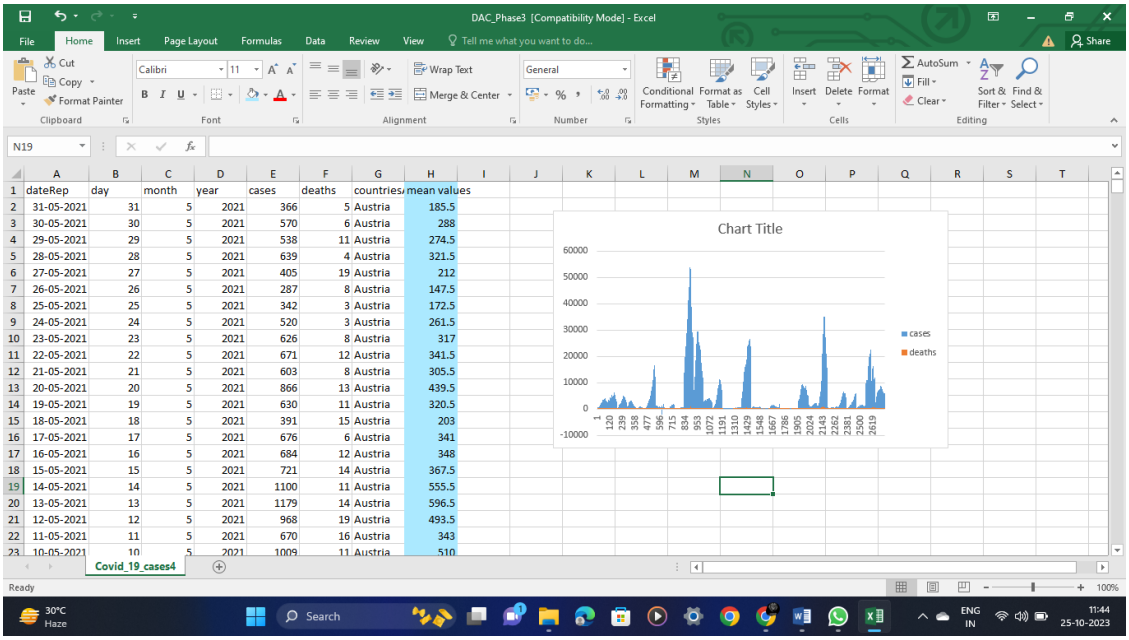
Step 5: Analyze Insights

a. Look for trends over time. Are there spikes in cases followed by spikes in deaths? Can you identify any patterns?

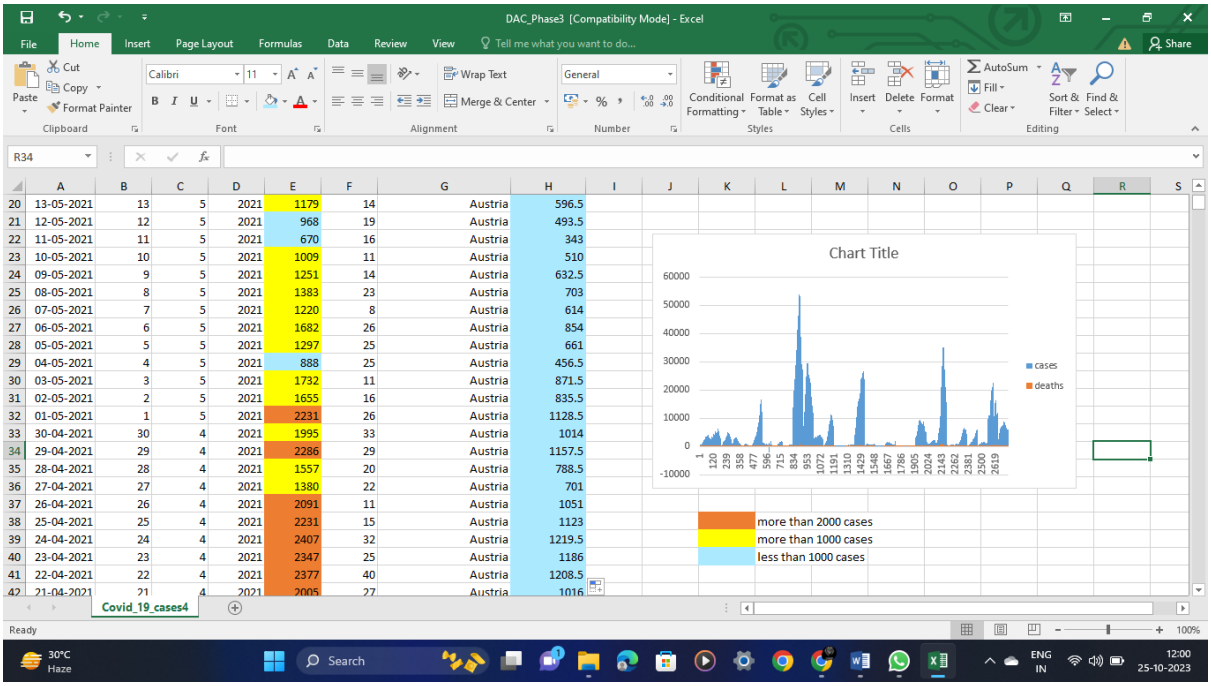
b. Calculate and compare the means and standard deviations for both cases and deaths. High standard deviations may indicate greater variability.

c. Use statistical tests to identify potential correlations between cases and deaths. For example, you can perform a correlation analysis to see if there's a relationship



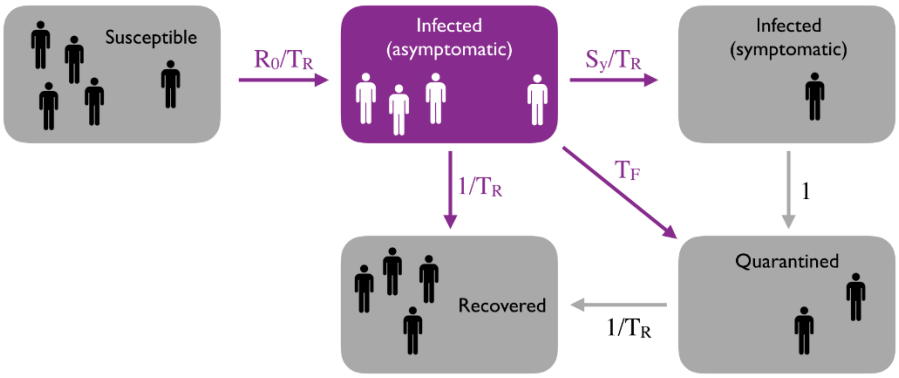
Step 6: Narrative and Interpretation

Create a narrative or report that explains the insights you've derived from the visualizations. Highlight any correlations or trends you've identified. Make sure to include visual cues in your report.



Step 7: Share and Collaborate

Share your analysis with relevant stakeholders and collaborate to make data-driven decisions.



Conclusion :

Remember to customize your analysis and visualizations based on your specific data and objectives. IBM Cognos provides a range of tools and options to create impactful visualizations and gain insights from your data.