

DAC_Phase5

Date	01 November 2023
Team ID	Proj_216191_Team_4
Project Name	COVID-19 cases analysis

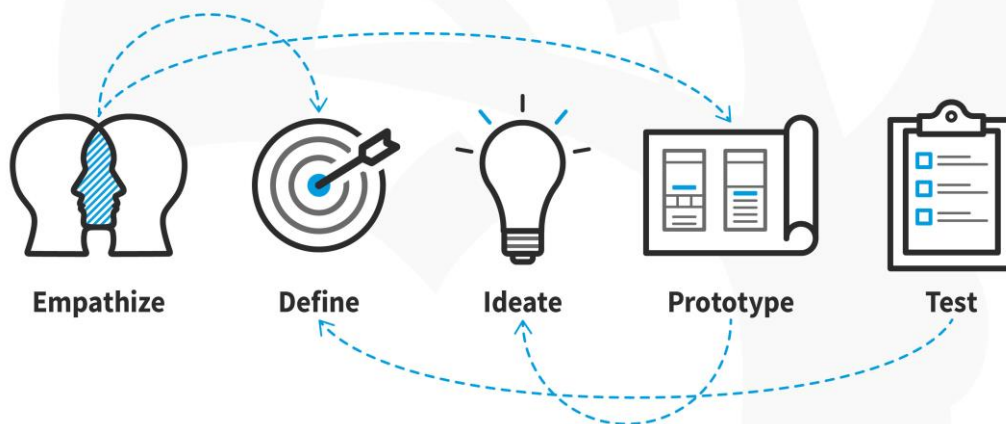
1. Objective:

- Understand COVID-19 trends and impacts through data analysis.

2. Design Thinking Process:

- Define the problem: Analyzing COVID-19 cases and impacts.
- Research and collect data sources.
- Ideate solutions: Develop a data analysis plan.
- Prototype: Execute the analysis using IBM Cognos.
- Test and evaluate: Examine insights generated.
- Implement and communicate findings.

Design Thinking: A 5-Stage Process



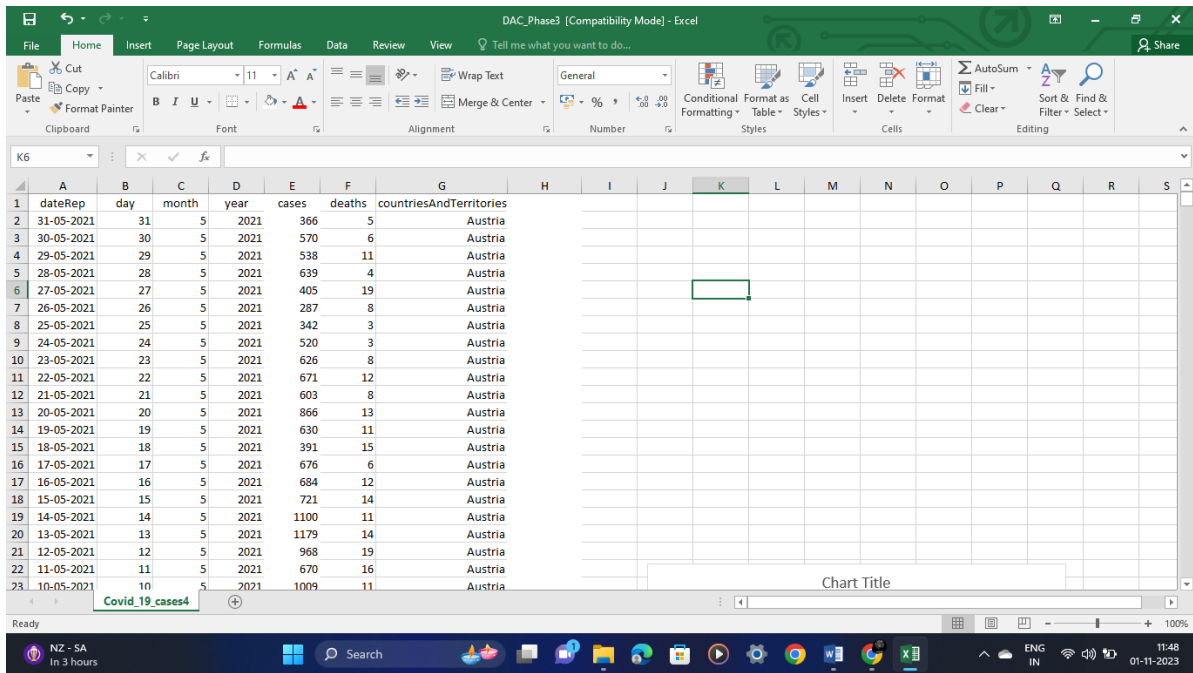
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3. Development Phases:

Phase 1 - Data Collection:

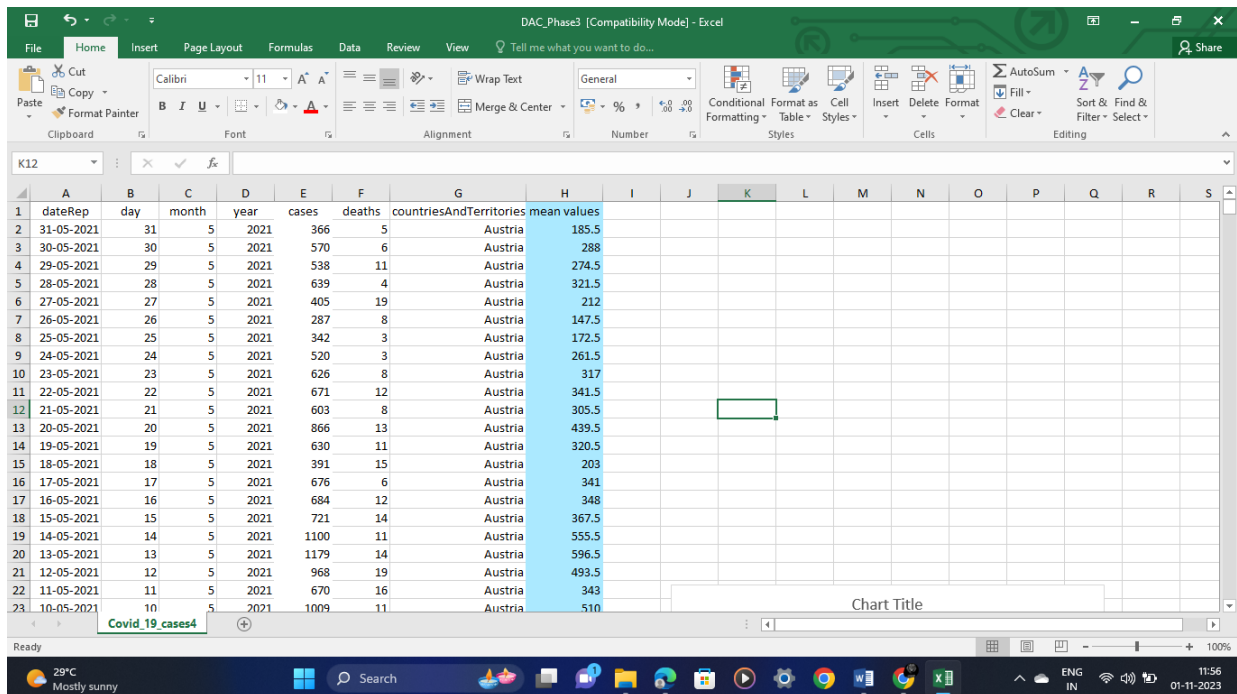
- Gather COVID-19 datasets from reliable sources.

- Preprocess and clean the data to make it suitable for analysis.



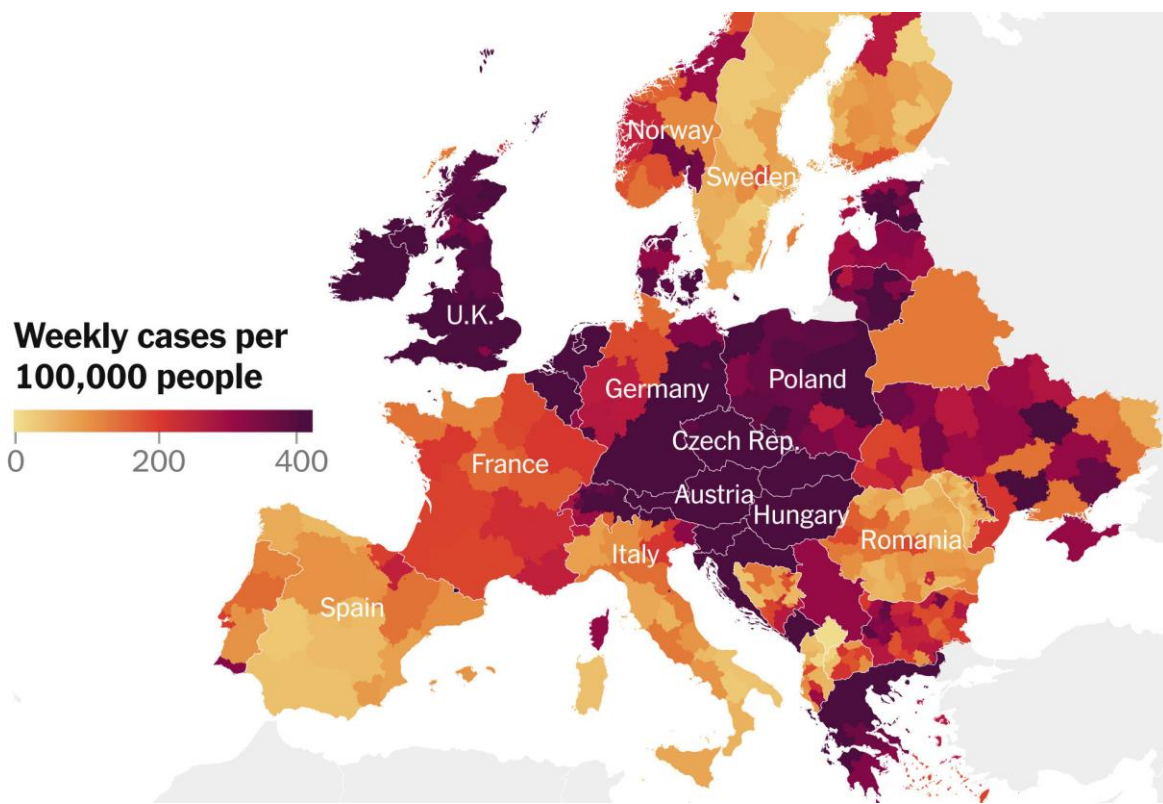
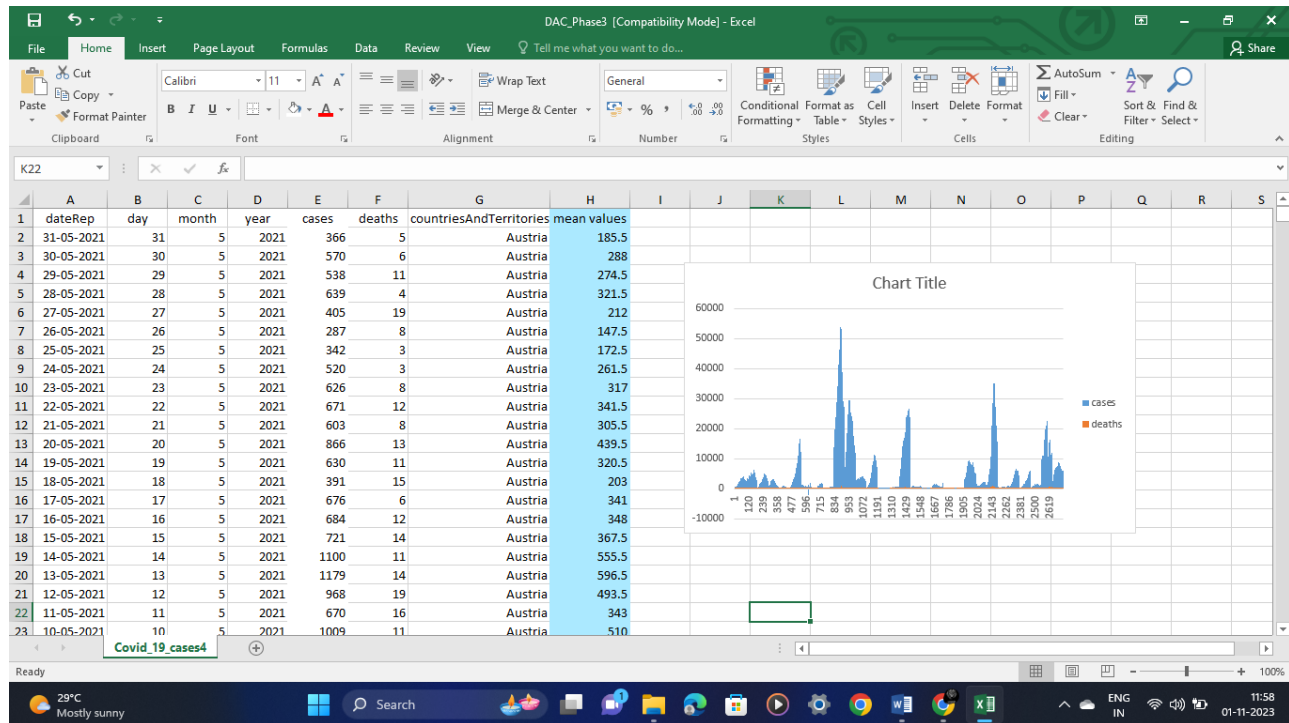
Phase 2 - Data Analysis:

- Apply statistical and data analysis methods to understand trends.
- Develop a comprehensive analysis plan.



Phase 3 - Data Visualization using IBM Cognos:

- Utilize IBM Cognos for creating visualizations.
- Present the data using charts, graphs, and maps.



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Phase 4 - Insights and Interpretation:

- Analyze the visualizations and draw insights from the data.
- Compare various aspects of COVID-19 cases and their impacts.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
20	13-05-2021	13	5	2021	1179	14	Austria	596.5											
21	12-05-2021	12	5	2021	968	19	Austria	493.5											
22	11-05-2021	11	5	2021	670	16	Austria	343											
23	10-05-2021	10	5	2021	1009	11	Austria	510											
24	09-05-2021	9	5	2021	1251	14	Austria	632.5											
25	08-05-2021	8	5	2021	1383	23	Austria	703											
26	07-05-2021	7	5	2021	1220	8	Austria	614											
27	06-05-2021	6	5	2021	1682	26	Austria	854											
28	05-05-2021	5	5	2021	1297	25	Austria	661											
29	04-05-2021	4	5	2021	888	25	Austria	456.5											
30	03-05-2021	3	5	2021	1732	11	Austria	871.5											
31	02-05-2021	2	5	2021	1635	16	Austria	835.5											
32	01-05-2021	1	5	2021	2231	26	Austria	1128.5											
33	30-04-2021	30	4	2021	1995	33	Austria	1014											
34	29-04-2021	29	4	2021	2286	29	Austria	1157.5											
35	28-04-2021	28	4	2021	1557	20	Austria	788.5											
36	27-04-2021	27	4	2021	1380	22	Austria	701											
37	26-04-2021	26	4	2021	2091	11	Austria	1051											
38	25-04-2021	25	4	2021	2231	15	Austria	1123											
39	24-04-2021	24	4	2021	2407	32	Austria	1219.5											
40	23-04-2021	23	4	2021	2347	25	Austria	1186											
41	22-04-2021	22	4	2021	2377	40	Austria	1208.5											
42	21-04-2021	21	4	2021	2005	27	Austria	1016											

Phase 5 - Conclusion and Communication:

- Summarize findings.
- Communicate results to stakeholders and the public.

4. Analysis Objectives:

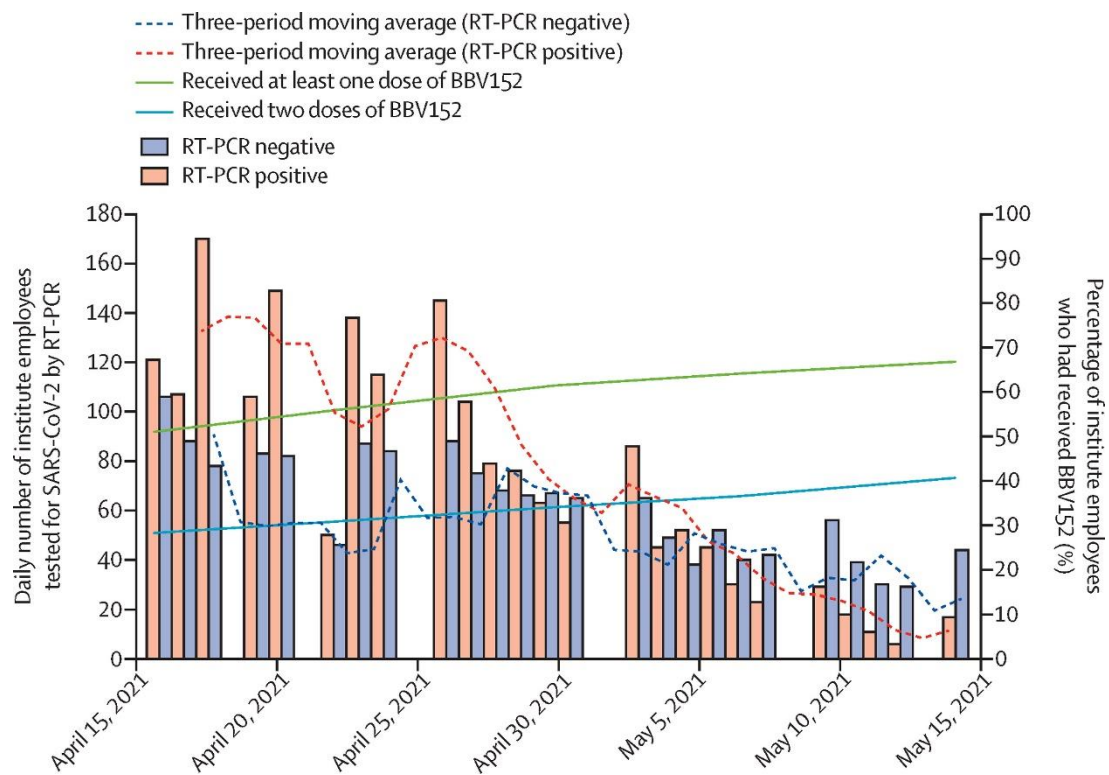
- Examine COVID-19 cases and impacts.
- Identify trends in infection rates, mortality, and vaccination rates.
- Compare different regions or countries to assess variations.

5. Data Collection Process:

- Collect COVID-19 datasets from official health organizations (e.g., WHO, CDC).
- Ensure data consistency and quality through preprocessing and cleaning.
- Include data on cases, deaths, recoveries, and vaccination rates.

7. Insights Generated from the Comparison:

- Identify hotspots of high infection rates and areas with effective vaccination strategies.
- Understand the relationship between vaccination rates and infection trends.
- Analyze the impact of public health measures on COVID-19 cases.
- Compare the situation across different time periods.



8. How Insights Aid in Understanding COVID-19 Trends and Impacts:

- These insights provide a comprehensive view of the pandemic's progress, aiding in decision-making for public health measures and resource allocation.
- Understanding regional variations helps target interventions effectively.
- Insights on vaccination rates and infection trends are crucial for assessing the success of vaccination campaigns.
- Comparing the effectiveness of different approaches in controlling the virus can inform future pandemic responses.

9. Conclusion:

This outline should serve as a guide to structure your project and communicate the objectives, process, and insights effectively. You can expand on each section with more details as needed.