SQL + TABLEAU PROJECT

ROADMAP

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ABOUT THE PROJECT TOPIC

Climate change represents one of the most profound challenges in this century. Global warming has a significant impact on the environment and humanity. It causes rising Earth temperatures leading to severe effects such as increased frequency of heatwaves, droughts, and wildfires; melting of glaciers and ice sheets contributing to sea level rise, heavy rains and floods. These changes threaten ecosystems, biodiversity, and coastal communities. Economically, global warming damages agricultural productivity and infrastructure, especially impacting poorer populations who have fewer resources to adapt.

BUSINESS PROBLEM AND OBJECTIVE

A global research institution is studying the impact of climate change across different regions. They need a centralized system to track key climate indicators, monitor extreme weather events, and analyse their economic and infrastructural impact. Business Problem The organization faces challenges:

❌ Tracking Climate Trends – Data is scattered across multiple sources, making it difficult to analyse temperature variations, air quality, and precipitation patterns over time.

❌ Generating Reports Efficiently – Researchers rely on manual reporting, leading to delays in decision-making.

❌ Assessing Climate Risks – There is no structured way to analyse how climate events impacts infrastructure and the economy in different regions.

To address these issues, we are going to develop a data-driven climate monitoring solution with automated reporting and real-time visualization, ensuring quick access to insights for informed decision-making so I decided to analyze and monitor climate Trends across countries with diverse climate conditions the Insight gathered in this Tableau dashboard help us understand the scope and impact of this environmental shift on different regions

OUR ROADMAP

1

We begin with business understanding where we clarify the climate monitoring scenario and defined a specific problem to address once a establish we move to data understanding leveraging CHAT GPT to generate a robust data set aligned with our project objectives

2

We utilize SQL for data cleaning and processing ensuring our information is accurate and properly structured the analysis phase follows where we extract meaningful patterns and insight to inform our reporting we then transition to Tableau

3

We design an interactive dashboard that visualizes our findings effectively for stakeholders to explore the climate data independently

PROPOSED TIMELINE

1 Generate Data From CHATGPT

2 SQL For Data Cleaning and Processing

3 SQL + Tableau for Data Analysis and Finding Meaningful KPI's

4 Dashboard Building in Tableau

THANK YOU