Project 2

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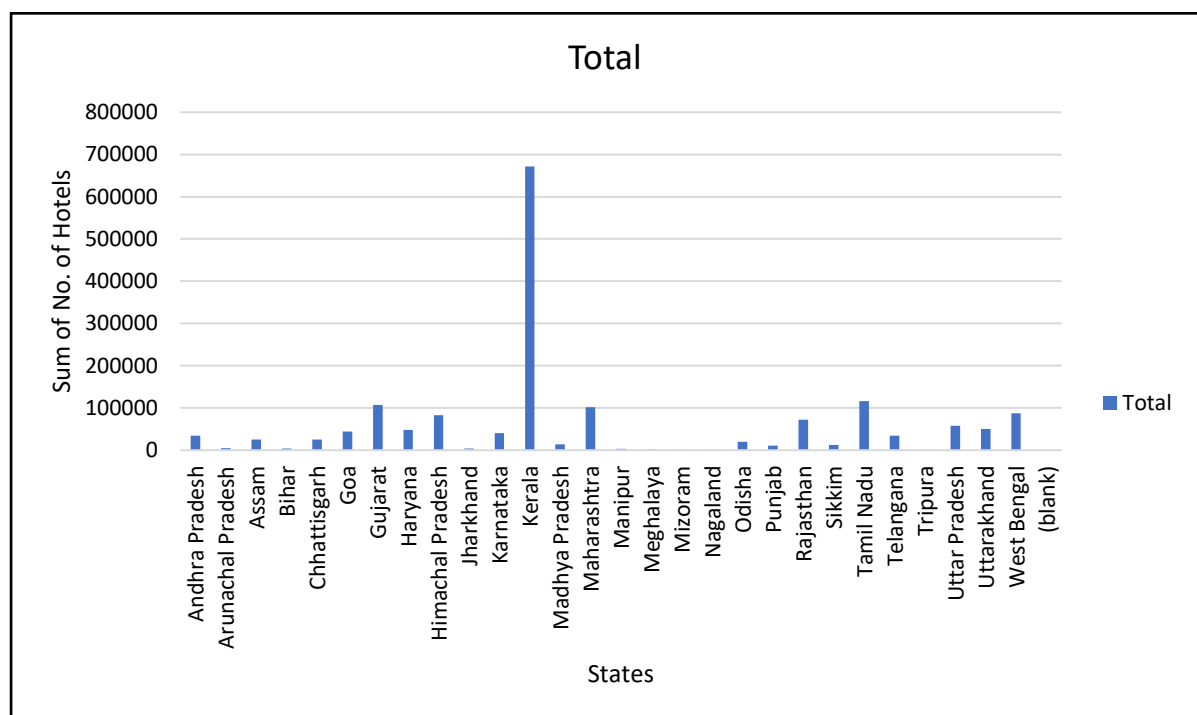Date of submission: 31/07/2023.

Introduction:

The provided map presents a comprehensive overview of the diverse seasons experienced across different states in India. Of particular significance is the focus on the onset and retreat of the South West Monsoons, a crucial meteorological phenomenon that plays a pivotal role in shaping India's climate and agricultural patterns. Through data collection and visualization in MS-Excel, this map aims to provide valuable insights into the timing and duration of the South West Monsoons across various regions in the country. By examining these seasonal patterns, we can gain a deeper understanding of India's climatic variations and their impact on different states, fostering a more informed approach towards environmental and agricultural planning.

1. **Which state has the highest number of hotels? Depict this via a bar graph that compares all states.**

   Among all the states, **Kerala** has the highest number of hotels. This information is visually represented through a bar graph that compares the number of hotels in each state. The graph clearly shows that Kerala surpasses all other states in terms of hotel count, making it a popular destination for tourists and travelers.
   Below is the graph showing the comparison of hotel numbers across states:
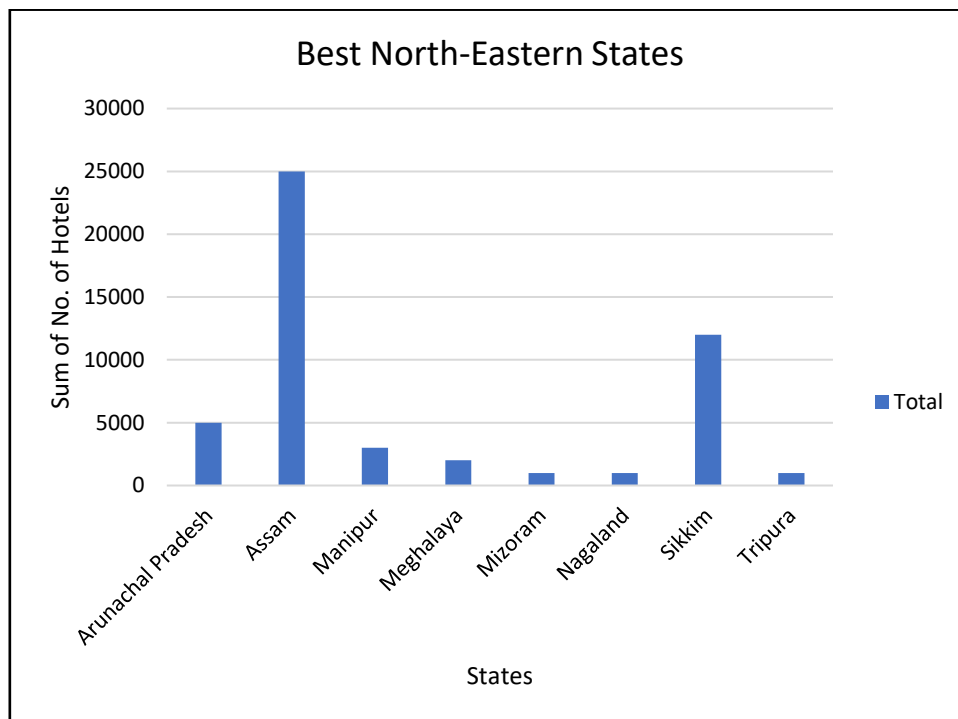
2. **Which states have three types of climatic conditions? (Convert the map, an unstructured data, to an Excel file in a structured format and mention the number of climates along with the state)**

Three states in India that experience three types of climatic conditions are **Karnataka, Madhya Pradesh**, and **Maharashtra.** These states are known for their diverse geographical features and varying landscapes, leading to distinct climate patterns across different regions within each state.
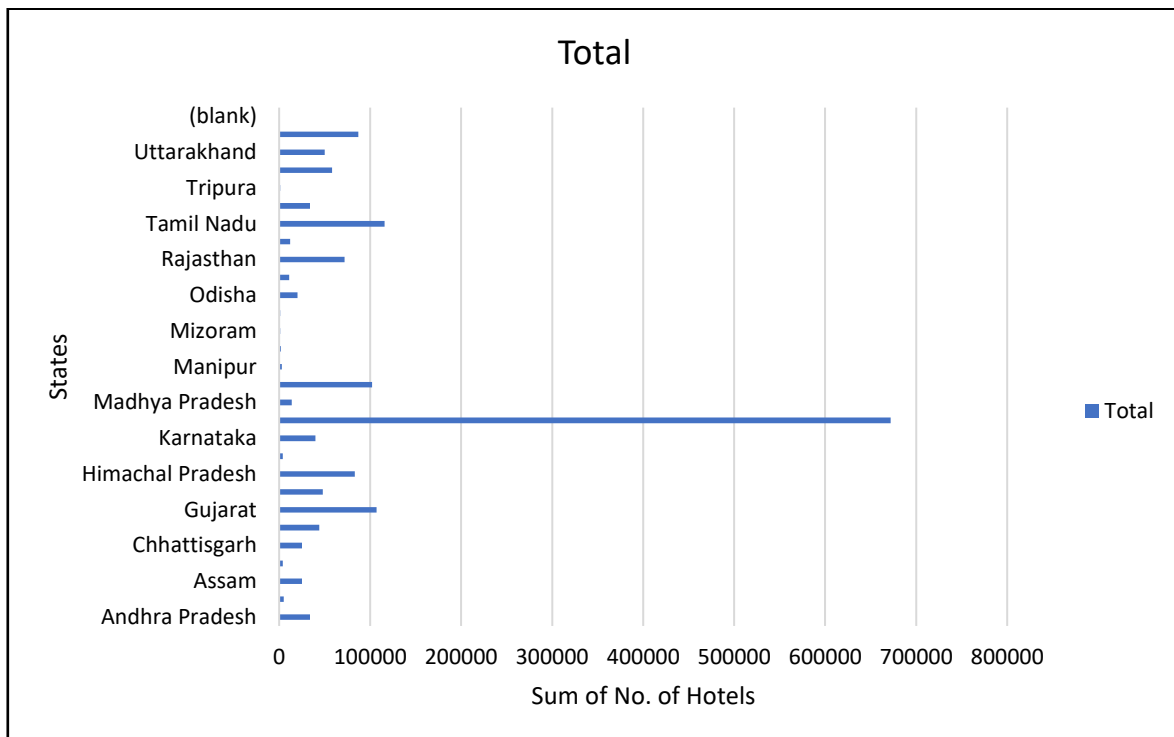
States	Sum of No of Hotels	Types of Climates
Andhra Pradesh	34000	2
Arunachal Pradesh	5000	2
Assam	25000	2
Bihar	4000	1
Chhattisgarh	25000	2
Goa	44000	1
Gujarat	107000	2
Haryana	48000	2
Himachal Pradesh	83000	2
Jharkhand	4000	2
Karnataka	40000	3
Kerala	672000	2
Madhya Pradesh	14000	3
Maharashtra	102000	3
Manipur	3000	1
Meghalaya	2000	1
Mizoram	1000	1
Nagaland	1000	1
Odisha	20000	2
Punjab	11000	2
Rajasthan	72000	2
Sikkim	12000	2
Tamil Nadu	116000	2
Telangana	34000	2
Tripura	1000	1
Uttar Pradesh	58000	2
Uttarakhand	50000	2
West Bengal	87000	2
Grand Total	1675000	

3. **Among the north-eastern states which are best to set up a hotel? Use Clustered Column Chart and give recommendations for hotel industry investors.**

The most promising states in the North-Eastern region for setting up a hotel are **Meghalaya, Mizoram, Nagaland,** and **Tripura**. These states have a relatively lower sum of the number of hotels, indicating a potential gap in the hospitality market that can be capitalized on. By strategically establishing hotels in these states, investors looking to enter the hotel industry can tap into the growing tourism market and meet the demand for accommodation, providing travellers with comfortable and enjoyable stays. The emerging tourism opportunities in these states make them attractive destinations for hotel industry investors seeking lucrative ventures in the region.

4. **Customize the pivot charts to add/change the fields in the fields list with other fields and by using chart styles to customise the charts. (Choose the data and parameters according to your choice)**

5. **Which is the best state for setting up a hotel? Why?**

Based on comprehensive research, **Kerala** stands out as an exceptionally compelling choice for establishing a hotel.

The following reasons underscore why Kerala is an extremely compelling option for setting up a hotel.
1. Favourable tropical monsoon climate with abundant rainfall and year-round vegetation growth.
2. Moderate to pleasant temperatures during the summer months, ensuring guest comfort.
3. Kerala's popularity as a top tourist destination for domestic and international travellers.
4. Diverse attractions, including backwaters, beaches, hill stations, and cultural heritage, appeal to various types of travellers.
5. Year-round tourism potential provides a steady flow of visitors, ensuring a stable and lucrative business environment.
6. Scenic diversity of Kerala's landscape offers an ideal setting for a hotel, enhancing guest experiences.

6. What is the average number of days the rainy season lasts in Indian states?

The duration of the rainy season, known as the monsoon season, varies across different Indian states due to the country's diverse geographical and climatic conditions. On average, in most parts of India, the monsoon season lasts for approximately **90 to 120 days**. However, the specific duration can differ based on the region and the unique monsoon patterns experienced in each area.

To give an overview:

- Northern India (e.g., Delhi, Uttar Pradesh, Punjab): The monsoon season generally spans from June to September, covering around 90 to 120 days.

- Western India (e.g., Maharashtra, Gujarat, Rajasthan): The rainy season usually extends from June to September, totalling about 90 to 120 days.

- Eastern India (e.g., West Bengal, Bihar, Odisha): The monsoon season typically lasts from June to September, lasting approximately 90 to 120 days.

- Southern India (e.g., Kerala, Karnataka, Tamil Nadu): The monsoon season typically encompasses the period from June to September, lasting around 90 to 120 days.

- Northeastern India (e.g., Assam, Meghalaya, Mizoram): The monsoon season generally occurs from June to September, covering approximately 90 to 120 days.