

Module 8: Map Charts – Only for Excel 2019 & Above

1. What is a Map Chart?

A **Map Chart** allows you to visually represent **geographic data** such as:

- Country-level GDP
- State-wise sales
- Region-wise growth







 **Internet connection is required** to use map charts in Excel.

2. How to Insert a Map Chart





Step	Action
1	Select your dataset (must include a geographic column like "Country", "State", or "Region")
2	Go to Insert → Maps → Filled Map
3	Excel will auto-detect geographic values and display a map
4	Use the Chart Elements button to add titles, legends, and labels
5	Use the Format Chart Area to customize appearance

3. Formatting Map Charts (via Format Chart Area)

You can open the Format Chart Area by right-clicking the chart → **Format Chart Area**.

Feature	Description
 Fill	Change background: Solid , Gradient , Picture , or Pattern
 Border	Add or remove borders, change color and thickness
 Title	Edit Chart Title using Chart Elements +
 Legend	Add/Remove chart legends
 Data Labels	Show actual values or percentages on the map
 Color Gradient	Controls intensity of values (e.g., GDP, population)

4. Important Limitations

Limitation	Explanation
 State/Country only	Excel supports States , Countries , and Regions – NOT districts, villages, or cities
 Duplicate Names	If two places have the same name, add a helper column with distinguishing numeric values
 Regional Settings	Map data must match regional names (e.g., use "United States" not "USA")
 Internet Required	Excel uses Bing Maps API to generate map visuals, so internet is necessary

5. Handling Duplicate or Conflicting Locations

If Excel fails to map places correctly (e.g., two entries for "Punjab"):

- Insert a new **helper column** to the **left of the main data** with different numeric values or grouping labels.
- This helps Excel distinguish locations.

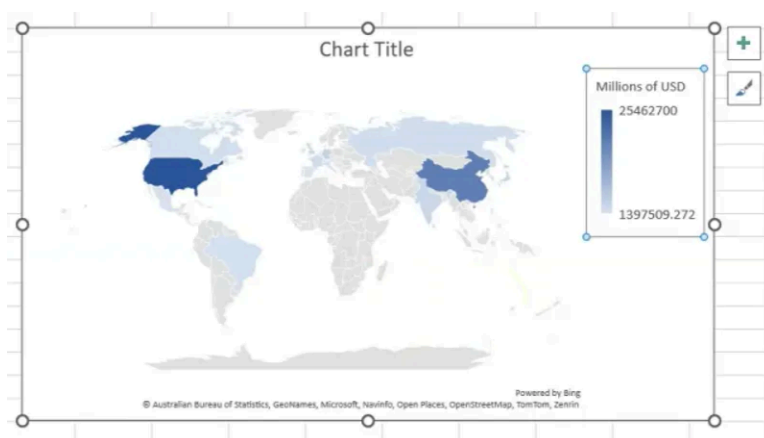
6. Example Data Structures

 **Country-wise Economy (in Millions USD):**

	A	B	C
1	Economy	Millions of USD	
2	United States	25462700	
3	China	17963170.52	
4	Japan	4231141.202	
5	Germany	4072191.736	
6	India	3385089.882	
7	United Kingdom	3070667.732	
8	France	2782905.326	
9	Russian Federation	2240422.438	
10	Canada	2139840.024	
11	Italy	2010431.598	
12	Brazil	1920095.561	
13	Australia	1675418.665	
14	Korea, Rep.	1665245.539	
15	Mexico	1414187.194	
16	Spain	1397509.272	
17			

→ Insert → Map → Filled Map

→ Format using chart tools (color, border, label, etc.)

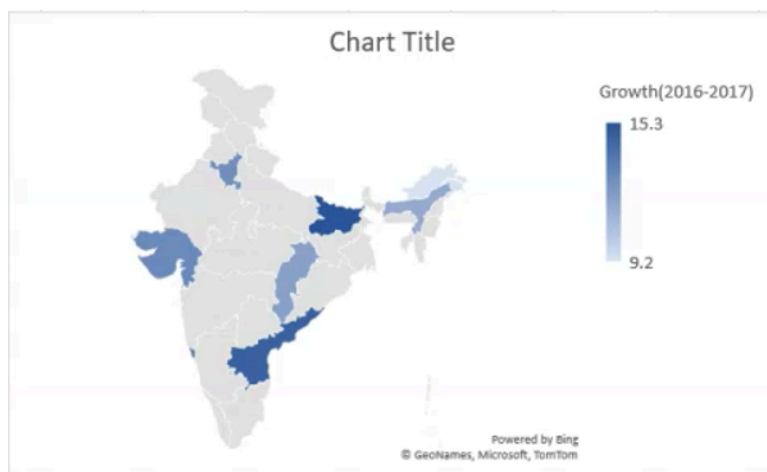


🇮🇳 State-wise Growth Example:

38		
39	States	Growth(2016-2017)
40	Andhra Pradesh	14.7
41	Arunachal Pradesh	9.2
42	Assam	11.6
43	Bihar	15.3
44	Chhattisgarh	12
45	Goa	13.8
46	Gujarat	13
47	Haryana	12.8
48		

→ Insert → Map → Filled Map

→ Gradient will reflect growth levels.



📌 Key Points / Important Notes

- 🌐 Internet is required to generate maps (uses Bing API).
- 📄 Data must include **State**, **Country**, or **Region** columns.
- ❌ Districts, cities, and villages are not supported.
- 🧩 Use **helper columns** for duplicate names or to guide Excel.
- 🎨 Customize the chart using **Format Chart Area**.
- 🇮🇳 Map Charts are best for **geographical comparisons** and **region-wise analysis**.