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DATANATION Project Report

Project Question/Objective

- Using the **DataNation** dataset, perform the following tasks:**Step-by-Step**
- Create separate **City names** by removing city codes.
- Create a **State → City hierarchy**
- Build a **Filled Map**
- Calculate **Death Rate** and show it using **Shape Map**
- Change color of shapes for better interpretation
- Create a Dashboard and Story

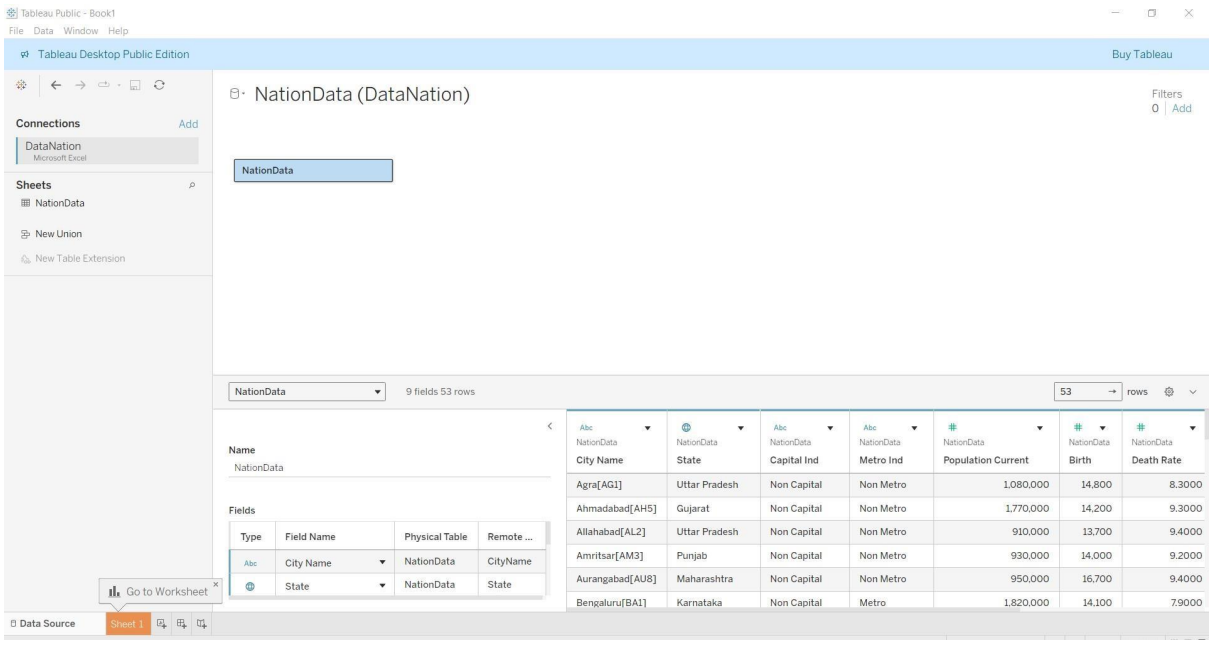
Implementation Guide

Step 1: Data Connection & Preparation

1. Open Tableau Desktop

2. Connect to the **DataNation.csv** dataset

3. Check that fields like **State**, **City**, **Confirmed Cases**, and **Deaths** have correct data types



Data successfully loaded into Tableau with proper field recognition

Verified data types using Fields table at the bottom right of tableu.

State automatically recognized as **Geographic Role**

City, **Capital Ind**, **Metro Ind** recognized as **Text (ABC)**

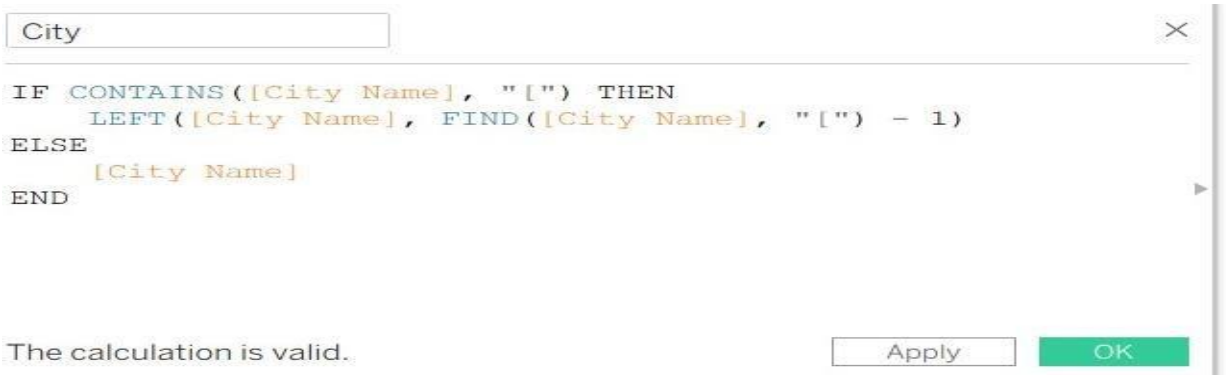
Population, **Birth Rate**, **Death Rate**, **Per Person Income** recognized as **Number (#)**

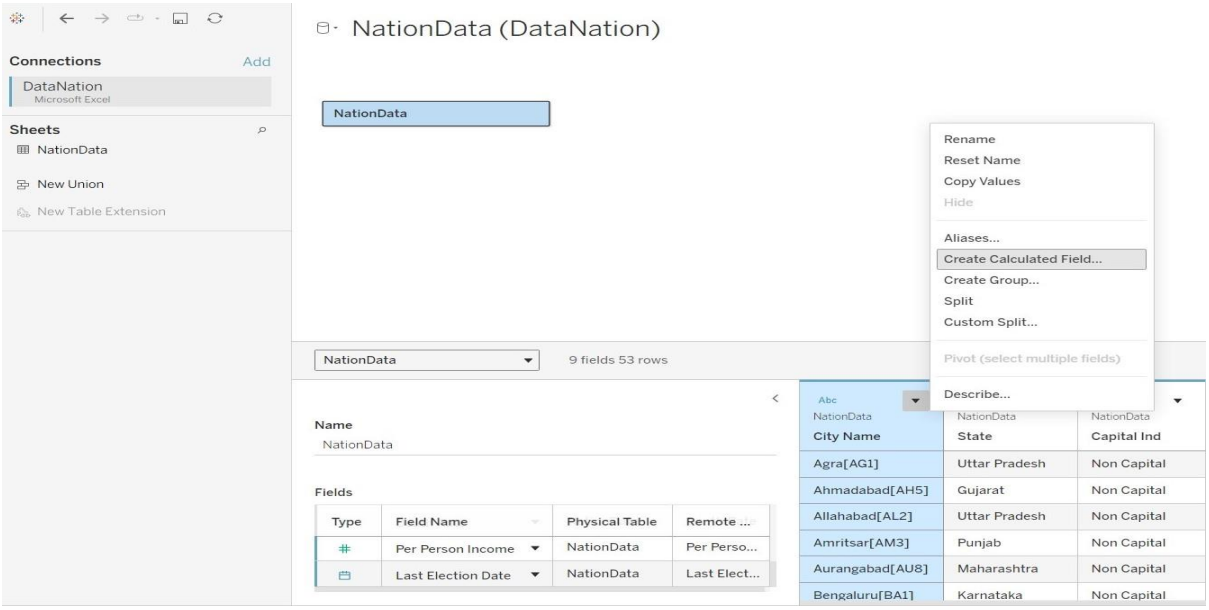
Last Election Date identified correctly as **Date.**

Step 2: Create separate Cities by removing the Code associated with each cities.

Created a **calculated field** City with the formula:

Dragged City to **Rows shelf**

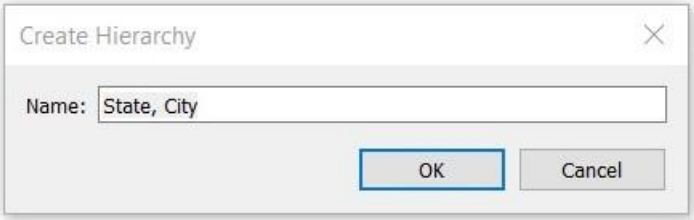


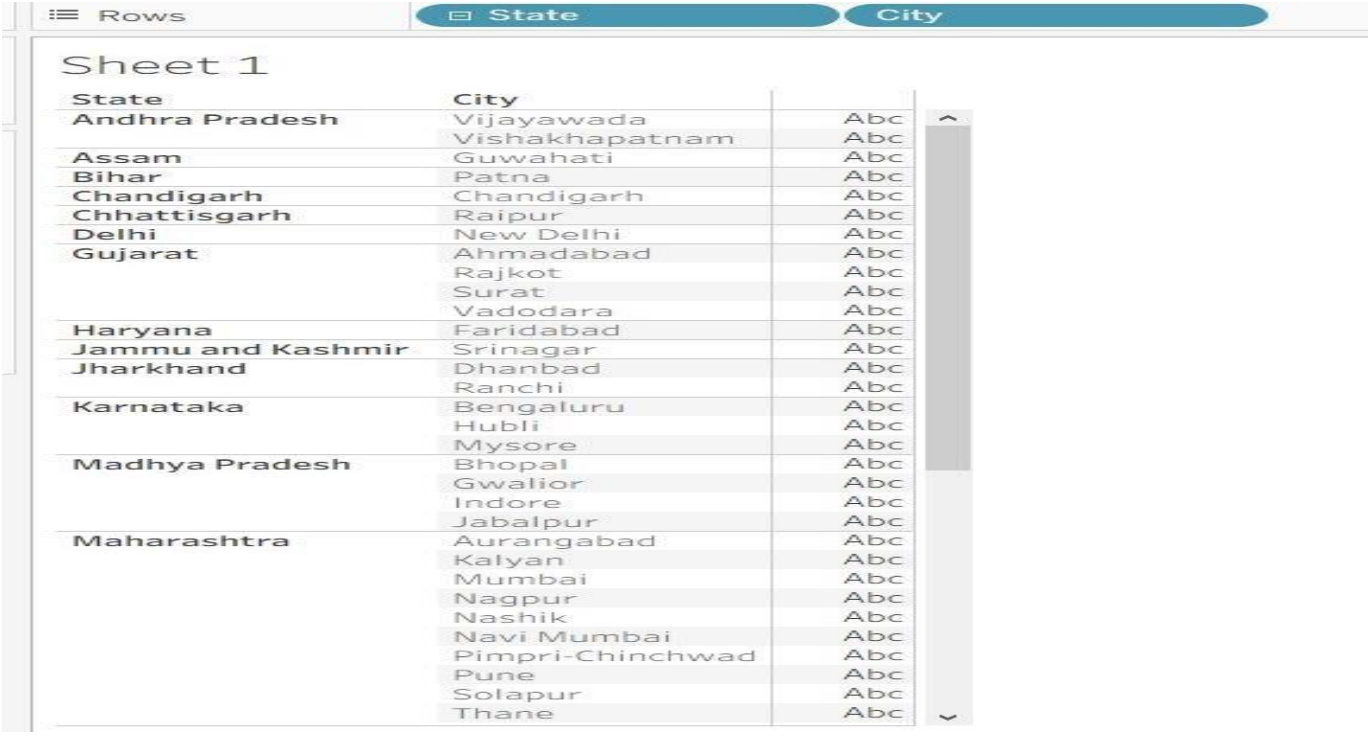


Step 3: Create a heirarchy of the state and city

Drag **City** onto **State** → **Create Hierarchy** → name it State → City.

Drag the hierarchy to **Rows shelf** to see states expandable to cities.





Step 4 : Visualize cities on a map.

1. In the **Data pane**, **double-click** `State` → Tableau will automatically create a map showing all states.
2. **Double-click** `City` → Tableau now plots city points on top of the states.

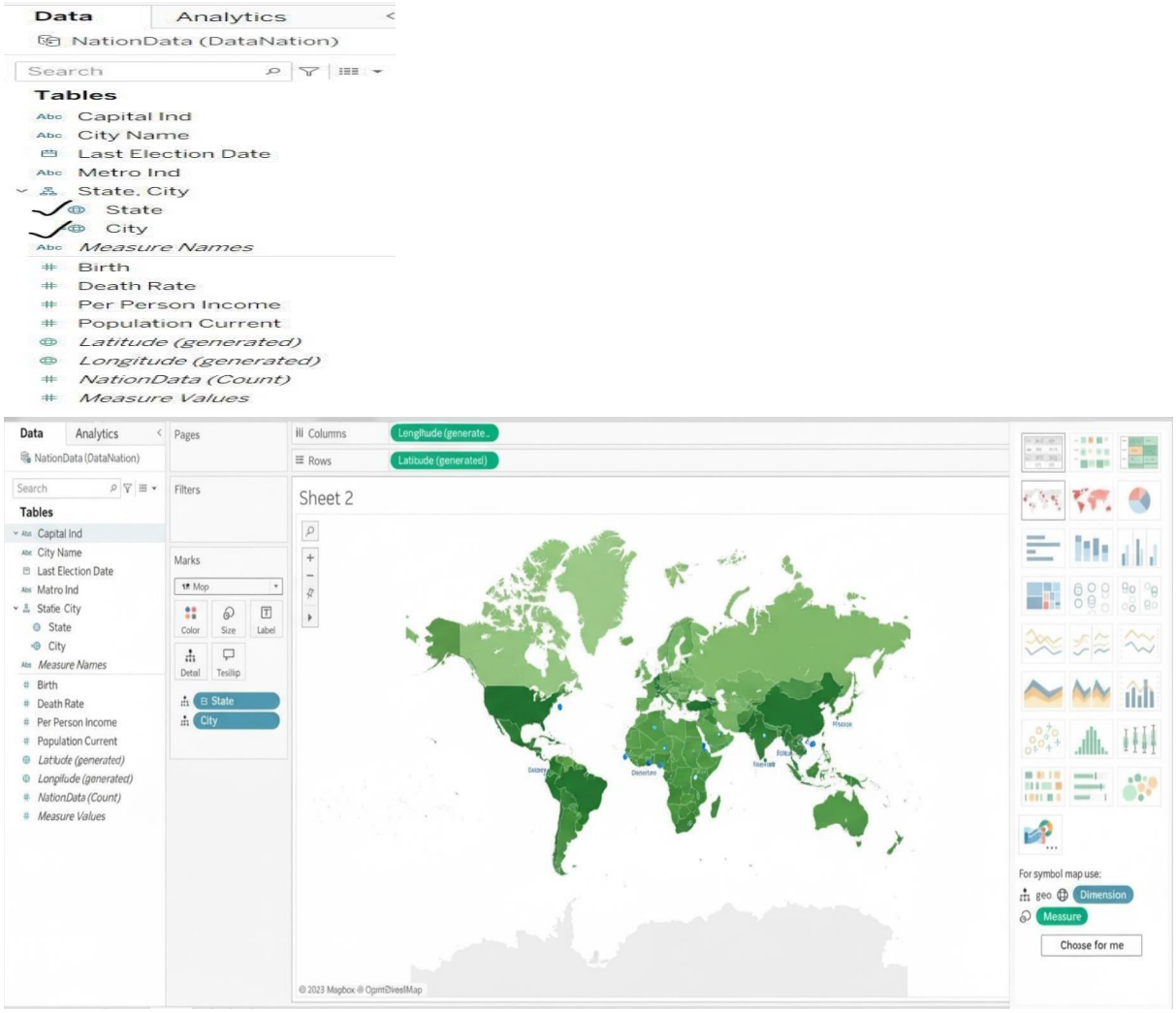
At this point, you should see small dots or marks representing each city.

Go to the **Marks card** (middle-left of the screen).

Currently, it might say **Automatic**. Click the dropdown.

Select **Map → Filled Map**.

Now each state appears as a filled shape, and cities are marked on it.



Step 5: Find the Death Rate for Cities with a ShapeCard.

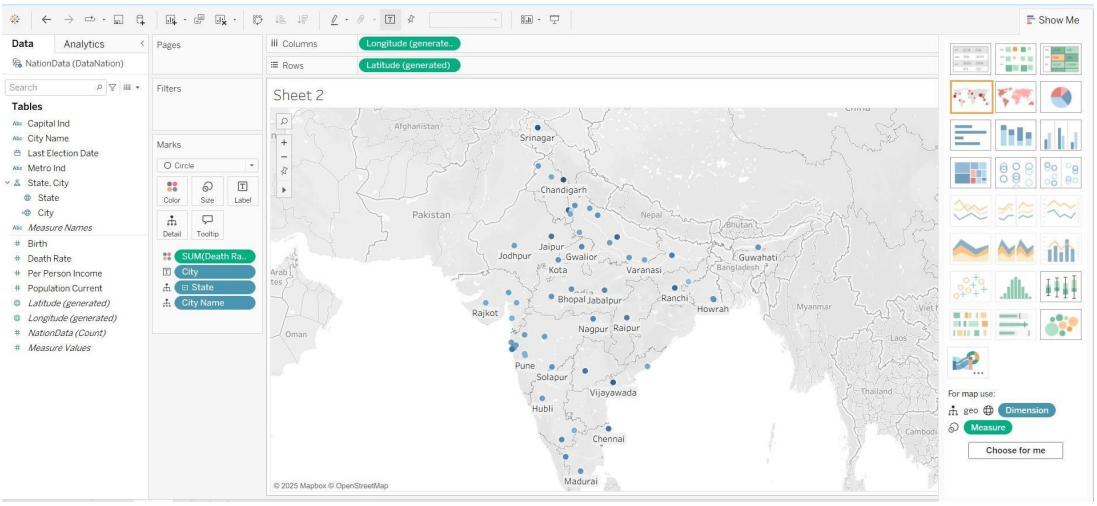
The **State** and **City** fields were set with correct **Geographical Roles**.

The **City** field was used to generate the map view.

The **Marks card** was changed to **Shape** to represent each city.

Death Rate was dragged to **Shape** and **Color** to visually indicate variations.

Colors were adjusted to highlight differences in death rate clearly.



Tools Used

- Tableau Desktop/Public

- Data nation.csv dataset

Files Created

- `Data nation.twbx` (Tableau packaged workbook)

- Project Report Document