Ex no: 4 Date:	Create a Map and assign Geographic locations to the fields for local geographical area

Aim:

To create a Map and assign Geographic locations to the fields for local geographical area.

Procedure:

- Fetch a dataset and import the data set into the tableau for creating a Geographical map.
- Decide the parameters to create a map.
- Make the visualization to understand the data set through the map.

STEPS:

State Dataset Title: Dote_District codes.

Dataset Description: This datset speaks about the Districts with its DOTE code (shortform).

Abc DOTE_District_Codes_0.csv District Code	DOTE_District_Codes_0.csv District Name
ALR	Ariyalur
CBE	Coimbatore
CDL	Cuddalore
CHN	Chennai
DGL	Dindigul
DPI	Dharmapuri
ERD	Erode

Metro Dataset:

Dataset Description:

This data set speaks about the metro train movements line indicates way to Delhi through the metro path.

Abc Delhi Metro Line	Abc Delhi Metro Station	# Delhi Metro X	# Delhi Metro Y
Red Line	Rithala	187.002	574.983
Red Line	Rohini West	195.108	565.273
Red Line	Rohini East	207.467	552.241
Red Line	Pitampura	219.825	539.209
Red Line	Kohat Enclave	231.524	526.727
Red Line	Netaji Subhash Place	245.698	513.462
Red Line	Keshav Puram	256.360	500.430

Charts Title :District location map.

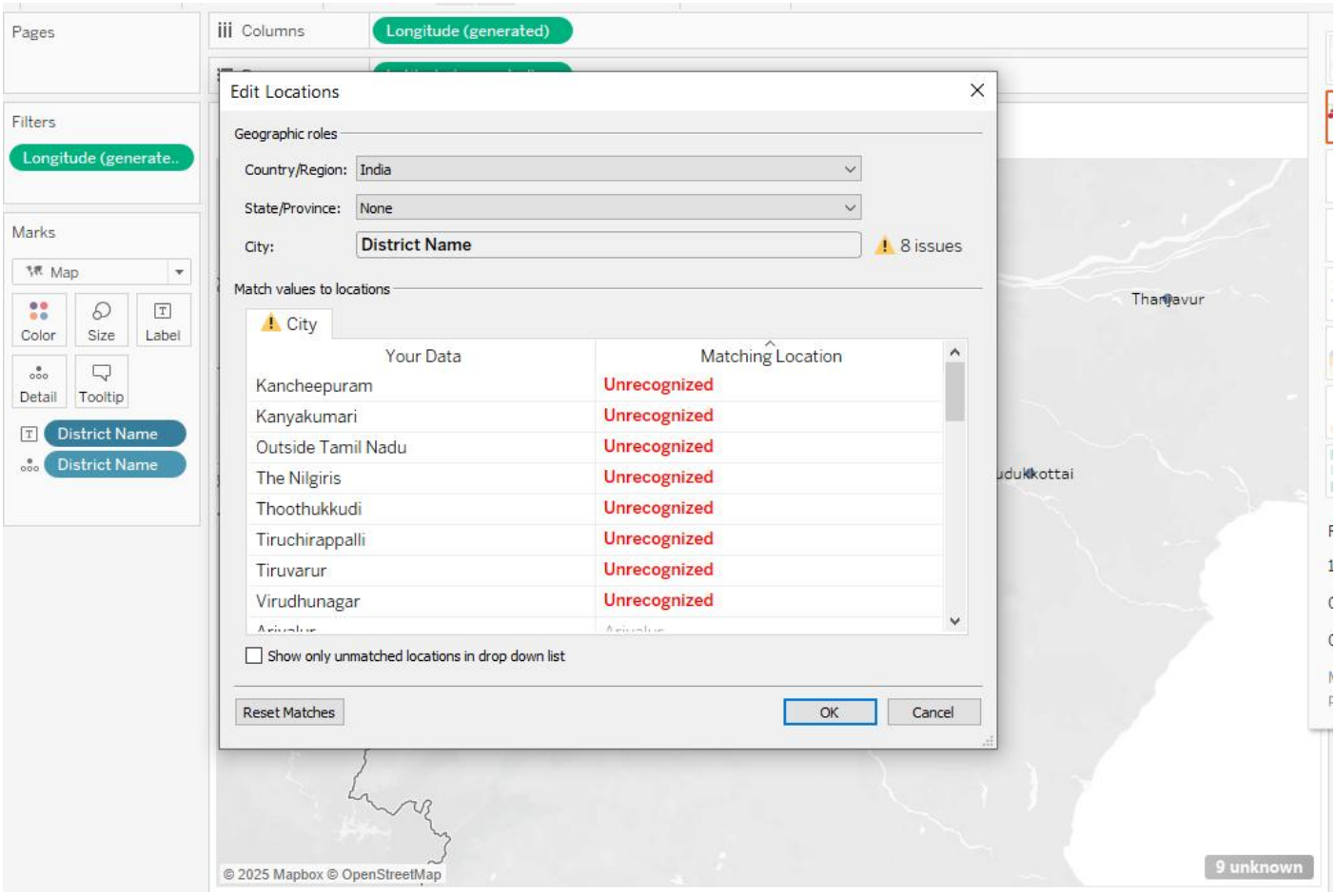
Steps:

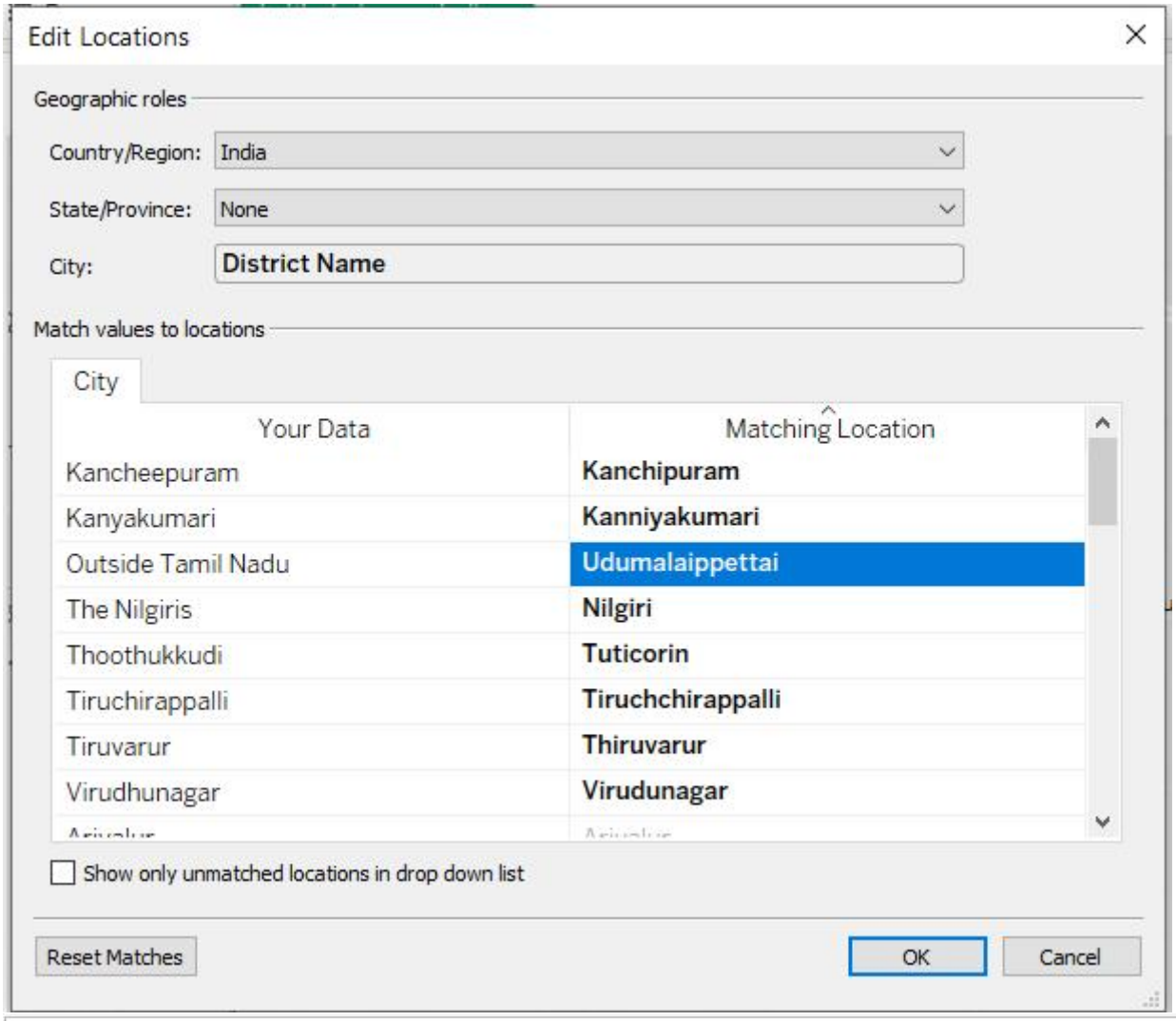
- Click on the warning icon ( ) in the map or sheet to open the Edit Locations window.
- In the Country/Region, select India.
- In the State/Province, select Tamil Nadu (very important!).
- For City, keep your field as District Name.
- Tableau will now recognize most districts.
- For still unrecognized names, fix spelling or match manually using the dropdown.
- Click OK to apply.

Description:

This step helps Tableau recognize Indian district names correctly on the map. By setting the State to Tamil Nadu, Tableau knows where to look. This allows it to map your sales or data accurately by district.

Chart:




Edit Locations
Geographic roles
Country/Region: India
State/Province: None
City: District Name
Match values to locations
City
Your Data
Matching Location
Kancheepuram
Kanchipuram
Kanyakumari
Kanniyakumari
Outside Tamil Nadu
Udumalaippettai
The Nilgiris
Nilgiri
Thoothukkudi
Tuticorin
Tiruchirappalli
Tiruchchirappalli
Tiruvarur
Thiruvarur
Virudhunagar
Virudunagar
Show only unmatched locations in drop down list
Reset Matches
OK
Cancel

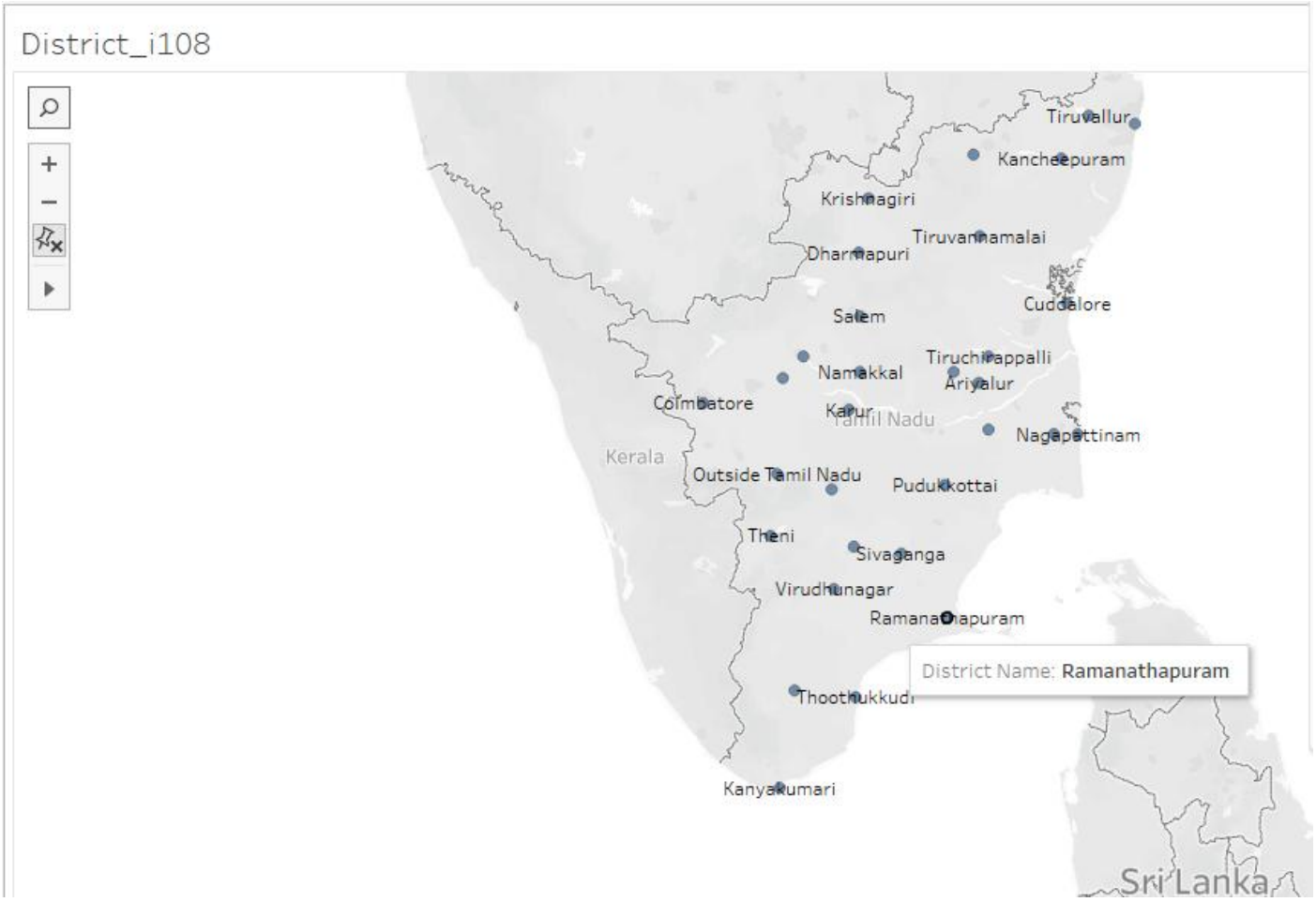

District_i108
Tiruvallur
Kancheepuram
Krishnagiri
Tiruvannamalai
Dharmapuri
Cuddalore
Salem
Tiruchirappalli
Namakkal
Ariyalur
Coimbatore
Karur
Tamil Nadu
Nagapattinam
Kerala
Outside Tamil Nadu
Pudukkottai
Theni
Sivaganga
Virudhunagar
Ramanathapuram
District Name: Ramanathapuram
Thoothukkudi
Kanyakumari
Sri Lanka

Chart title: Metro railways map

Steps:

Step 1: Add Background Image

- Open a new sheet in Tableau.
- Go to Map → Background Images → select your data source.
- Click Add Image.
- Browse and select your Delhi Metro map image (e.g., PNG/JPG).
- Set X Range and Y Range based on your data (e.g.:
- X Range: from 0 to ~850
- Y Range: from 0 to ~600
- Adjust according to actual coordinate spread.

Step 2: Plot X and Y

- Drag X to Columns.
- Drag Y to Rows.
- Change mark type to Circle or Shape.
- Drag Station to Label (optional).
- Drag Line to Color (e.g., Red Line = red, Blue Line = blue, etc.).

Step 3: Adjust Axes and Layout

- Fix axes range (right-click on axis → "Edit Axis") to match image dimensions.
- Reverse Y-axis if stations look upside-down:
- Right-click Y-axis → "Edit Axis" → check Reversed.
- Resize circles and adjust transparency if needed.

Description:

You are overlaying metro station data (X/Y coordinates) on a background metro map image. This allows accurate placement of stations (e.g., Rithala, Rohini West) and helps visualize line layouts interactively in Tableau.

Chart:

Preparation	**30**	
Lab performance	**30**	
Report	**40**	
Total	**100**	
Initial of the faculty		

RESULT:

A custom Tableau map was created by plotting Delhi Metro Red Line stations using X and Y coordinates. The stations were accurately overlaid on a background image and highlighted with green dots.