

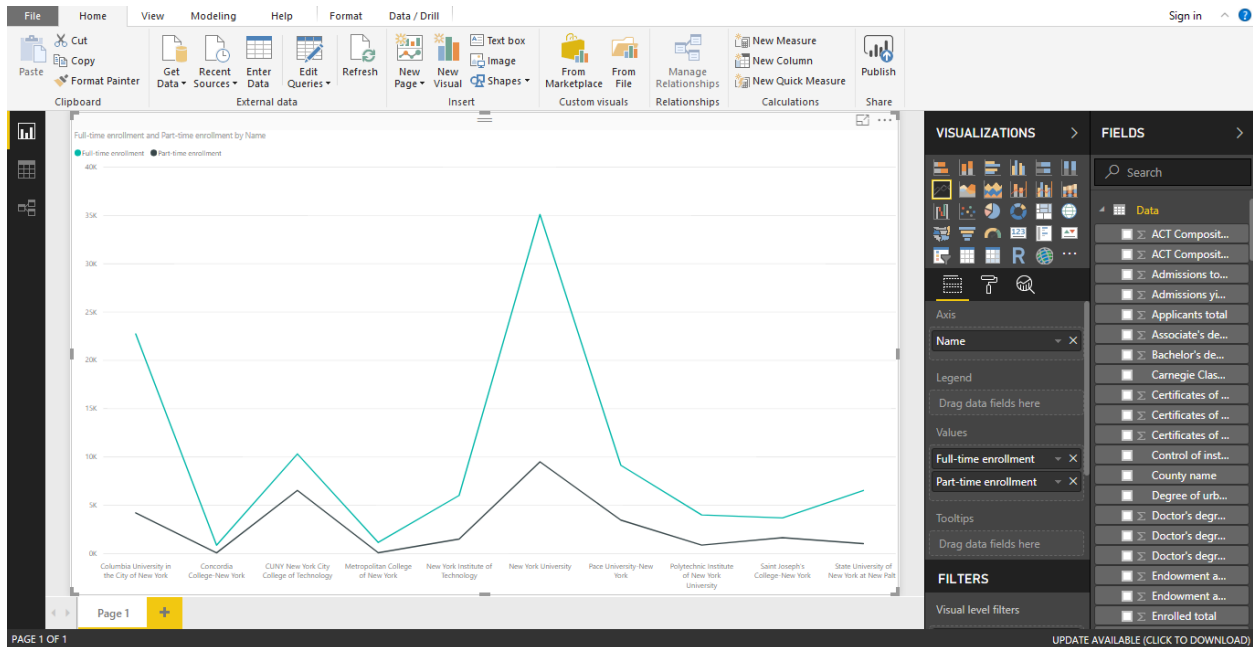
## POWER BI TUTORIAL

### 1. Determine analysis for Full-time and Part-time enrollment for all New York universities.

#### Line chart

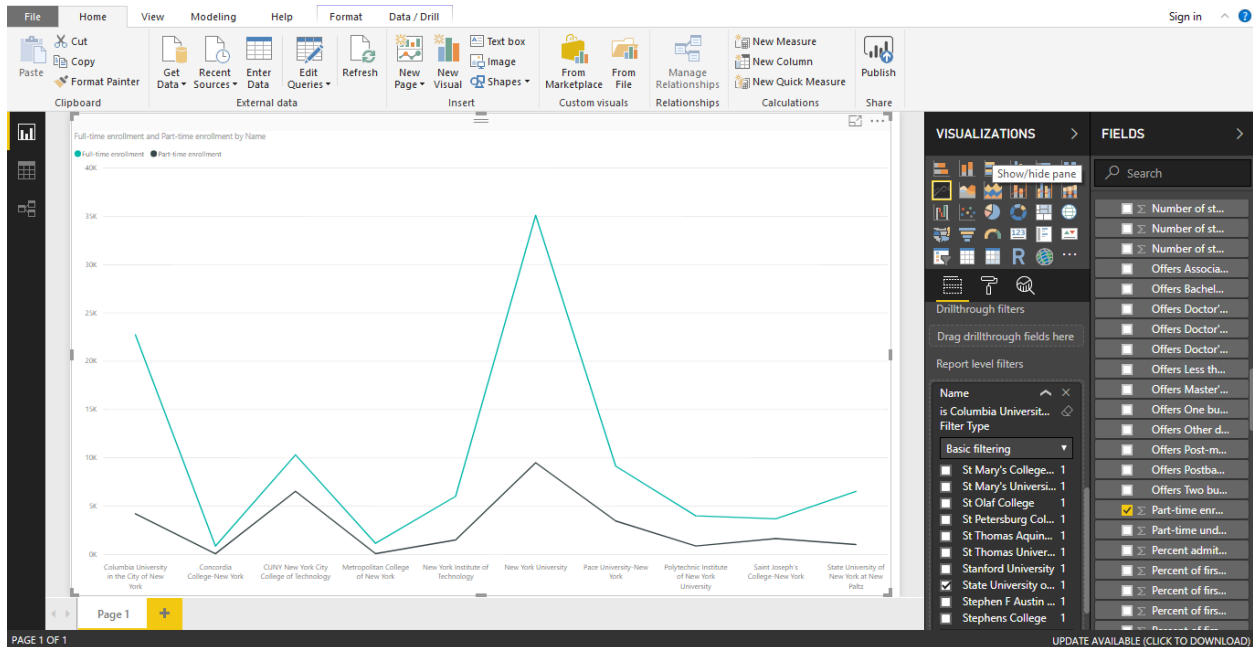
#### Steps

- Select chart type as line chart.
- In field pane, drag **Name** measure onto the X-axis and **full-time enrollment** and **part-time enrollment** measure to the Y-axis.

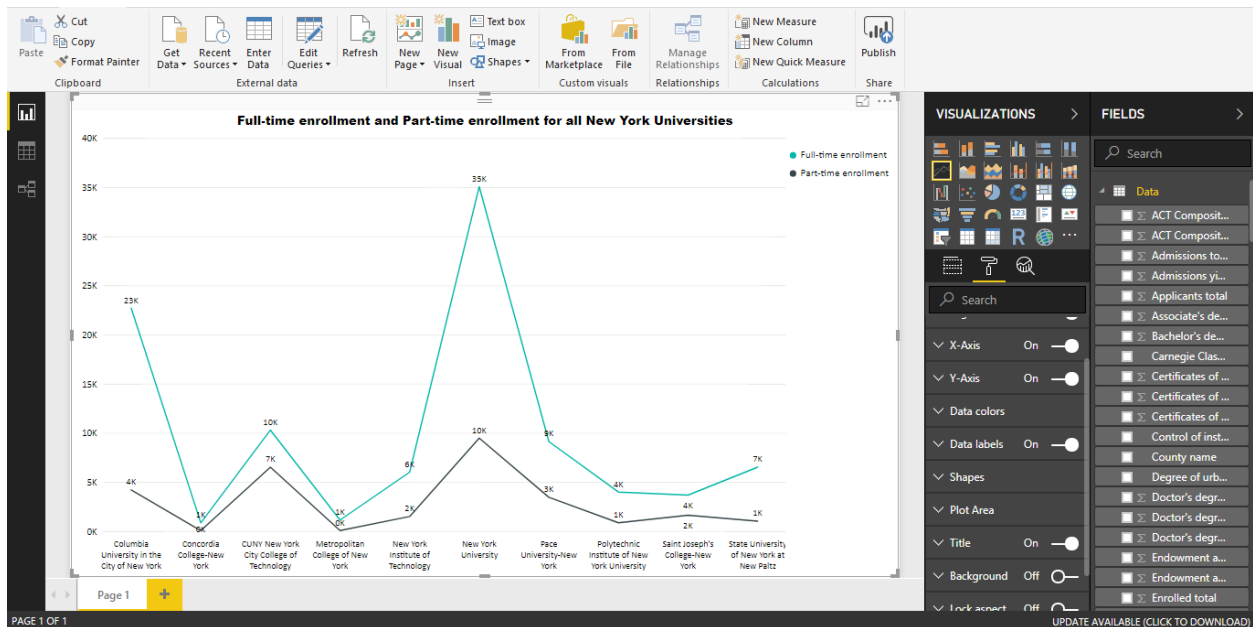


- Drag **Name** measure to visual filters and select all the New-York based Universities.

## Tutorial

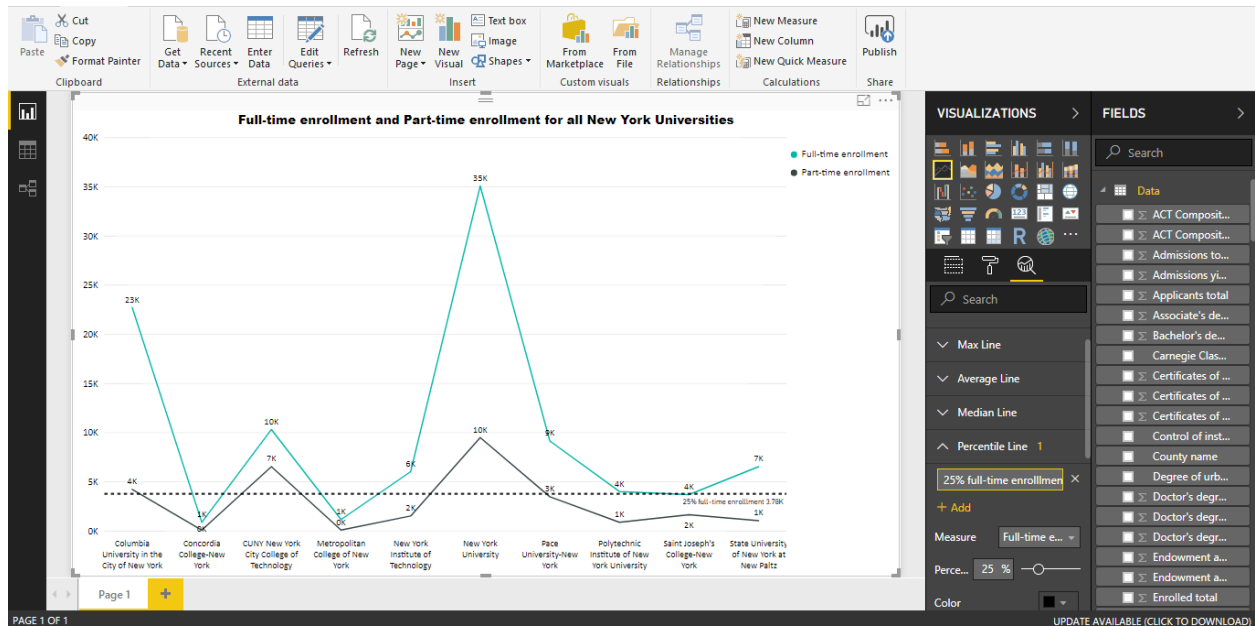


- In the format pane, assign desired font sizes, font colors to the legends, title, X-axis, Y-axis and data labels.

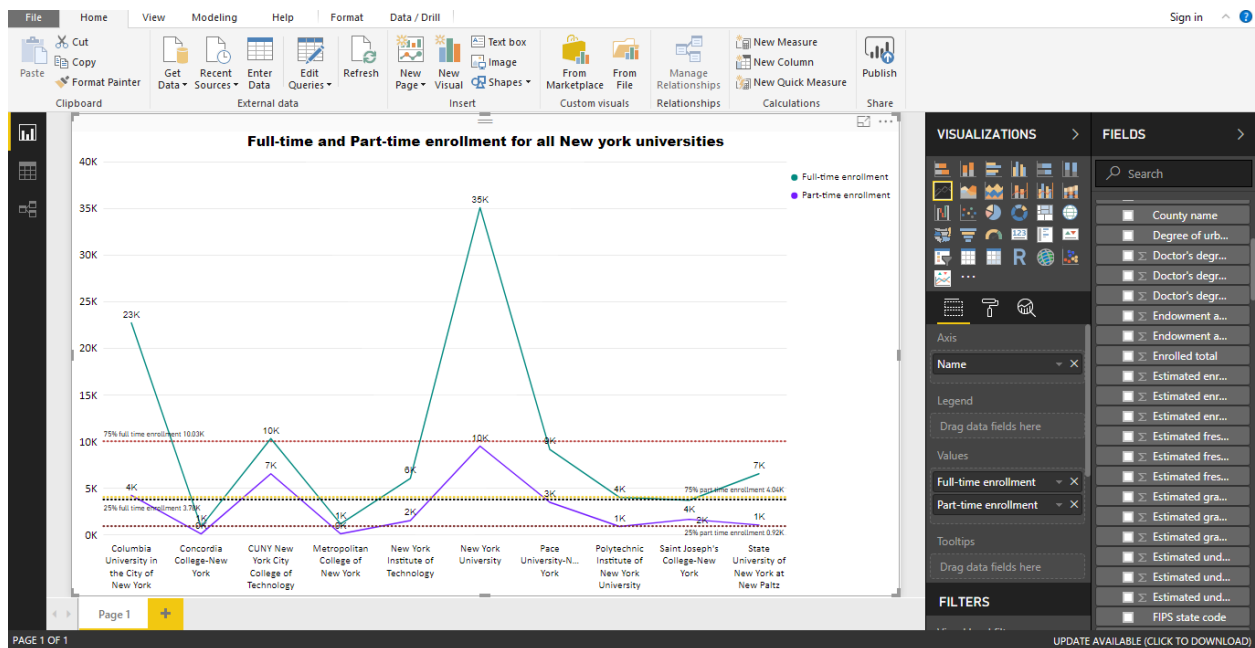


- Now, select analytics option on Visualizations pane and goto percentile line and add new percentile line.

## Tutorial



- Add in total 4 percentile lines for both 25% & 75% full-time and part-time enrollments. Assign the desired font color, font size to the lines and the data labels.



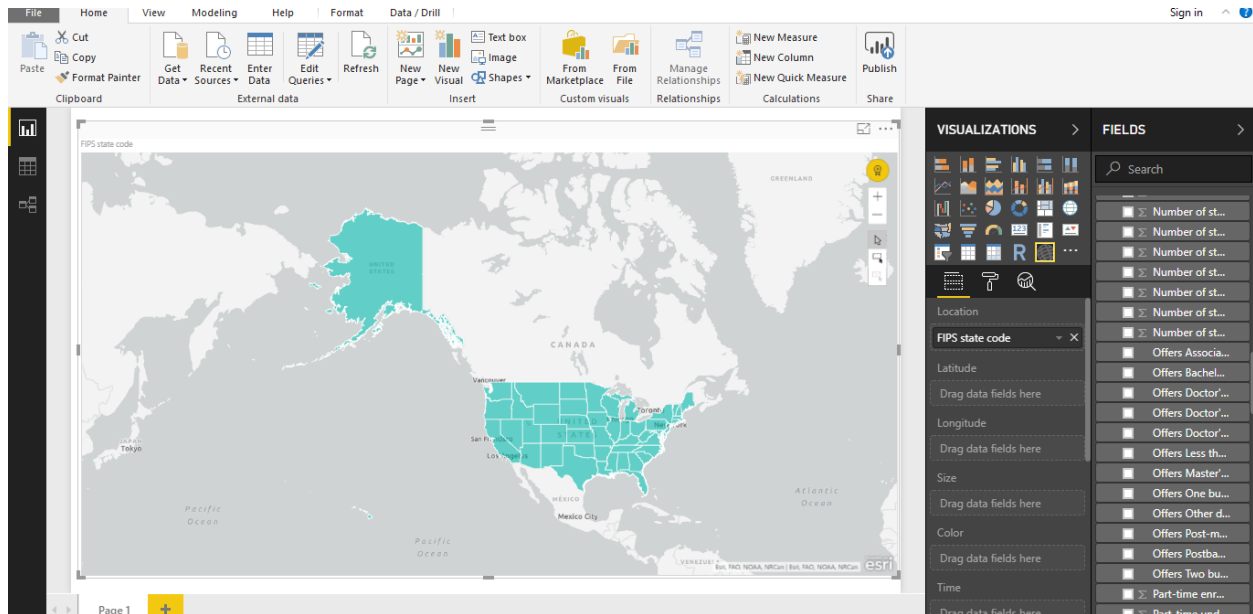
2. Which is the highest state having total price for out-of-state students living on campus in year 2013-14?  
*ArcGIS Maps*

### Steps

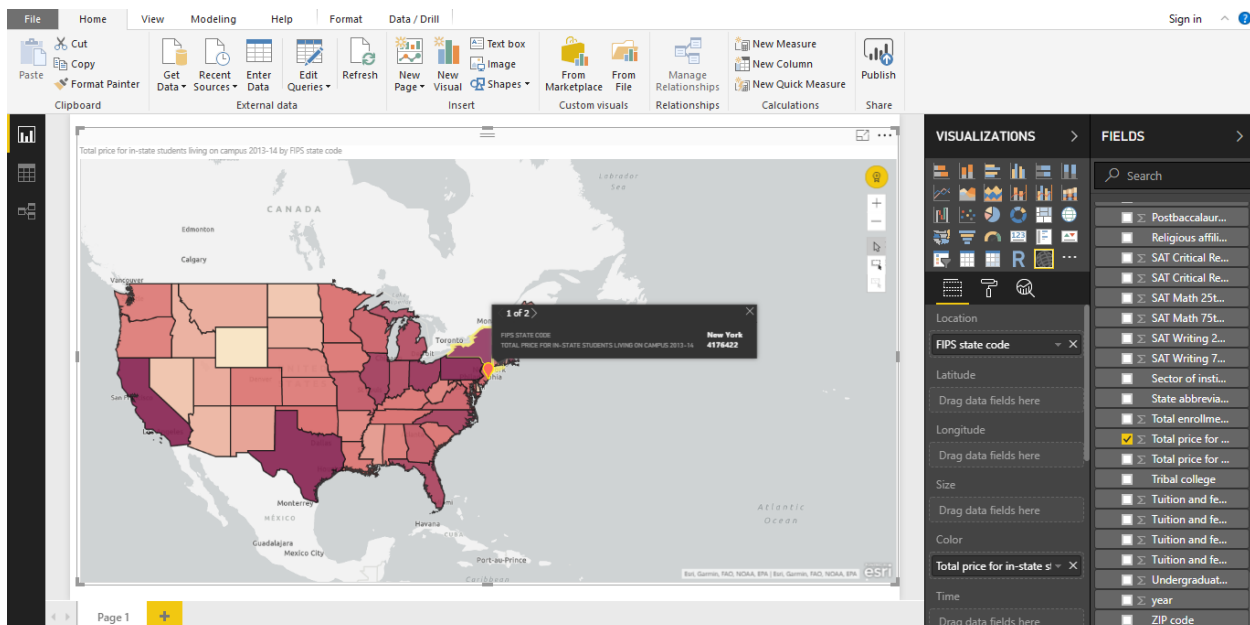
- Select chart type as ArcGIS Maps

## Tutorial

- In the fields pane, drag **FIPS State code** measure to location.
- Drag **Total price in-state students living on campus 2013-14** measure to color.



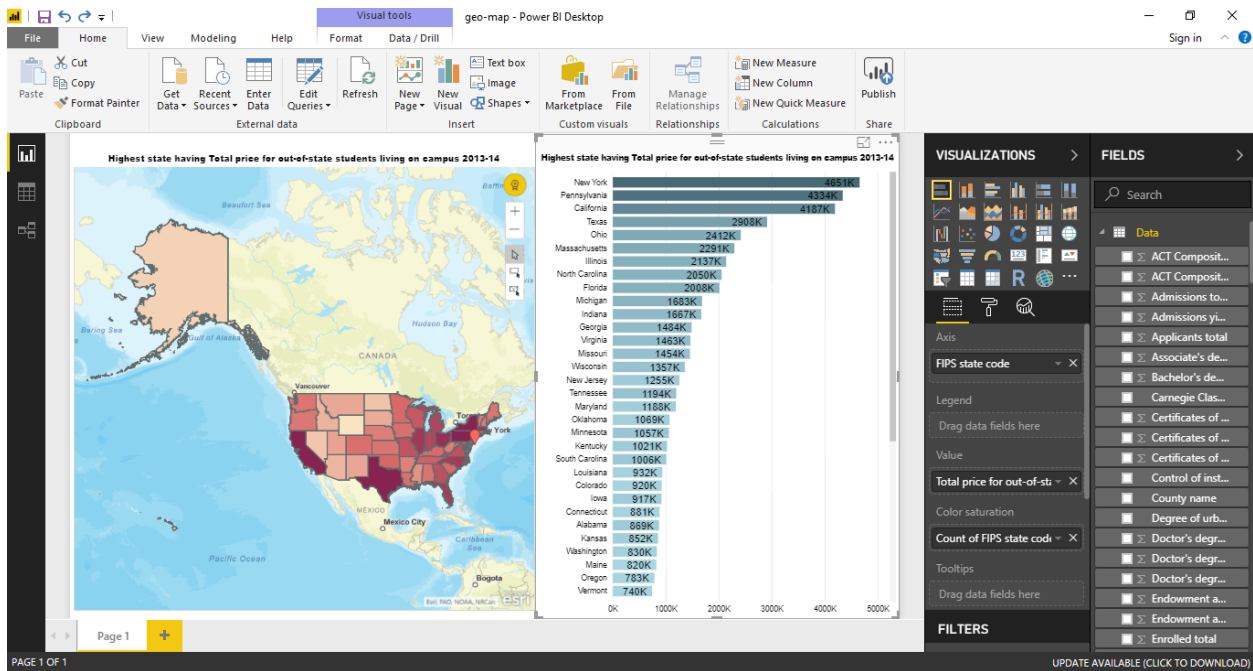
- Right click on the created report and select edit and goto Analytics tab. Pin the location having the total price in state students on campus.
- Choose map theme as color and adjust layer transparency and symbol style.



- Select another chart type as “stacked bar chart”
- Drag **FIPS State code** measure to Y-axis and **Total price in-state students living on campus 2013-14** measure to value.

## Tutorial

- Drag **FIPS State code** measure to color saturation to adjust color setting. In the format pane, assign desired font sizes, font colors to the legends, title, Y-axis and data labels.



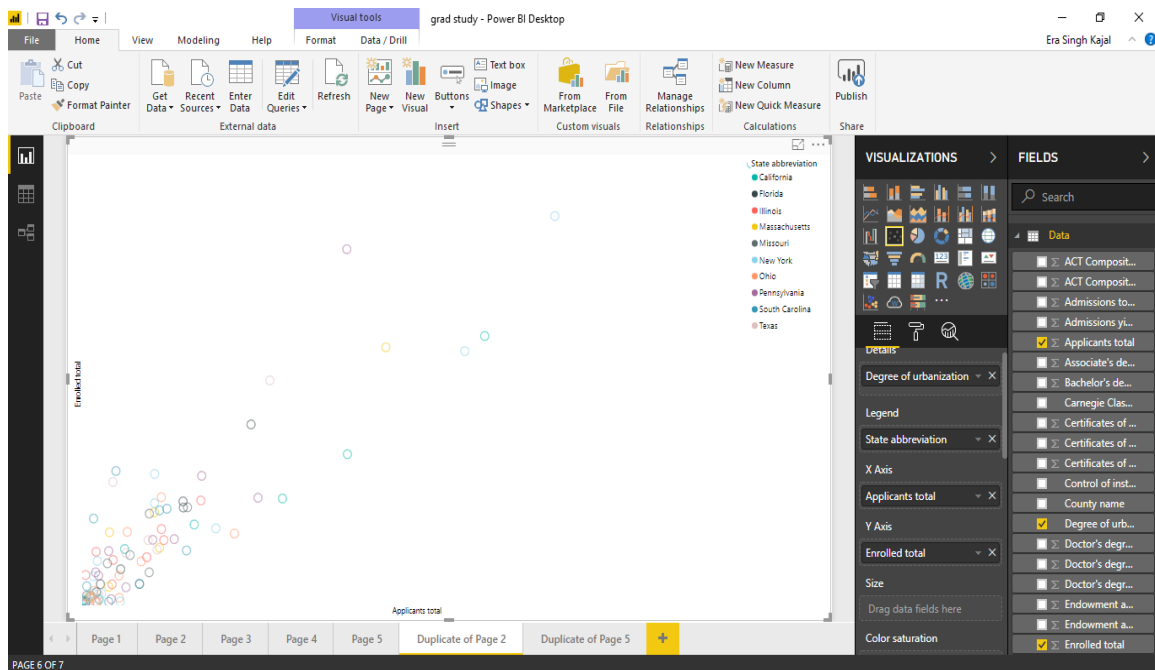
### 3. Determine the analysis for top 10 states having highest number of applicants along with total enrollment based on degree of urbanization.

#### Scatter Chart

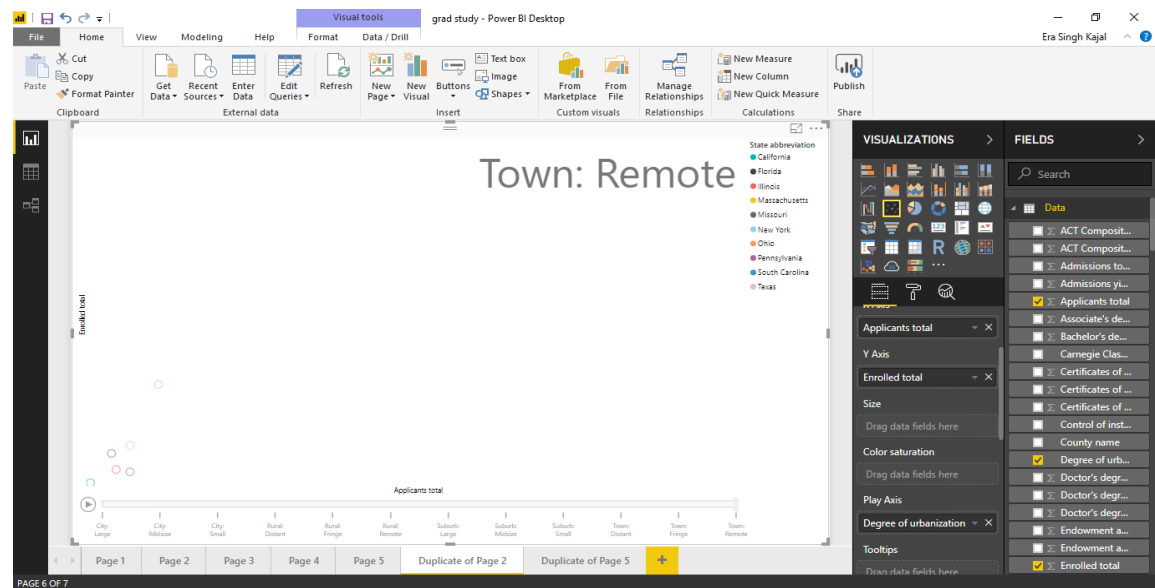
#### Steps:

- Select scatter chart as the chart type.
- In the fields pane, drag and drop the **Applicants total** measure to X-axis and **Enrolled total** measure to Y axis.

## Tutorial

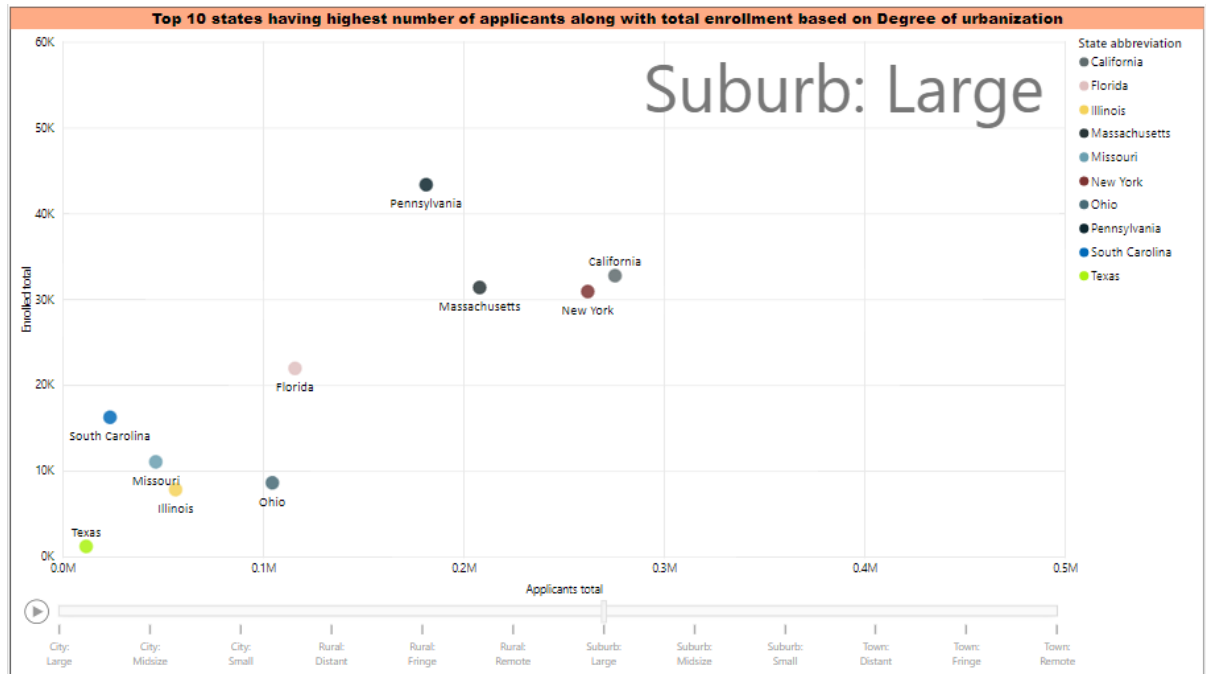


- Move *Degree of Urbanization* to play axis.



- Apply visual level filter for state abbreviation showing top 10 by applicant's total.
- Assign the desired color from a wide range of colors from the color pallet for each state.
- Select X & Y Axis label ON.
- This shows the top 10 states having highest number of applicants along with total enrollment based on degree of urbanization.

## Tutorial



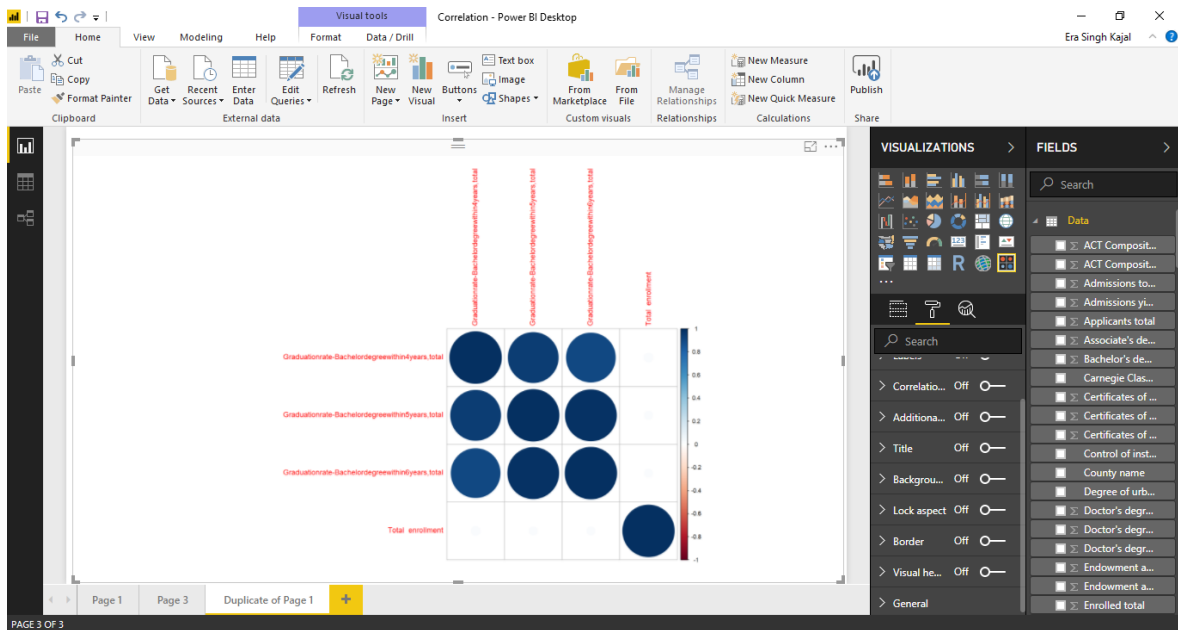
#### 4. Plot the correlation between total enrollment and graduation rate.

##### Correlation plot

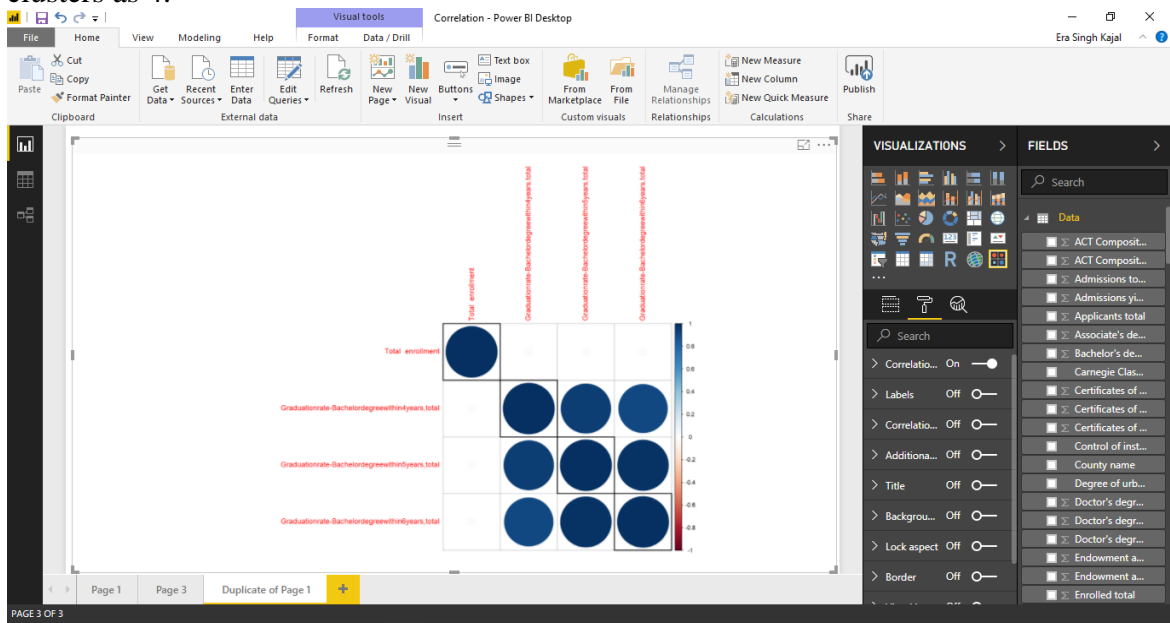
##### Steps:

- Select correlation plot as the chart type.
- In the fields pane, select graduation rate for bachelor's degree within 4,5,6 years and total enrollment for the values field.
- Apply visual level filters for the same.

## Tutorial



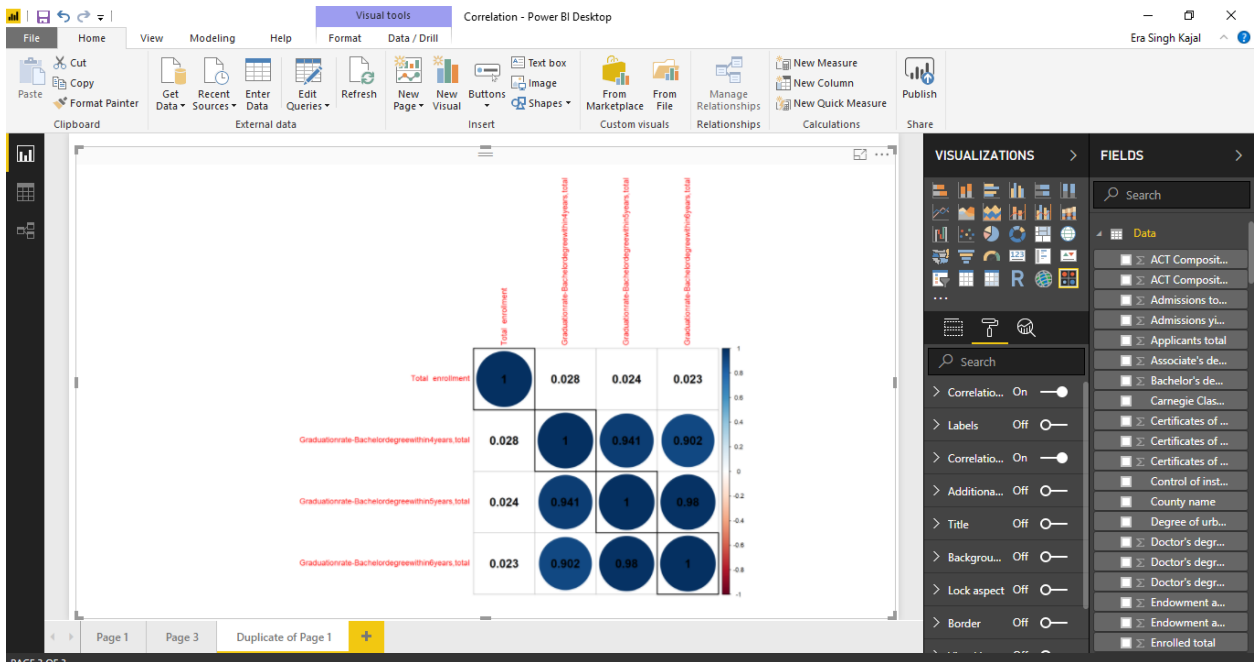
- Turn on the correlation plot parameters and legend.
- In the correlation plot parameters, choose circle as the element shape and number of clusters as 4.



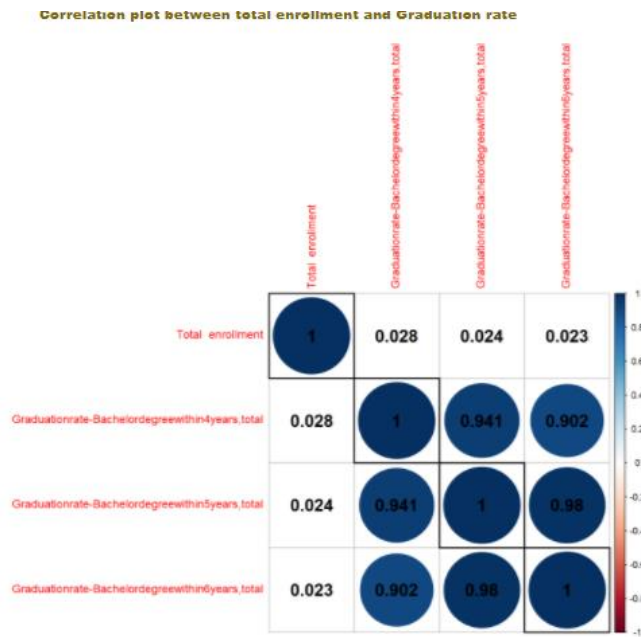
- Turn on the correlation coefficients in the plot. Select the number of digits after decimal as 3.



## Tutorial



- This gives you the correlation between total enrollment and graduation rate.

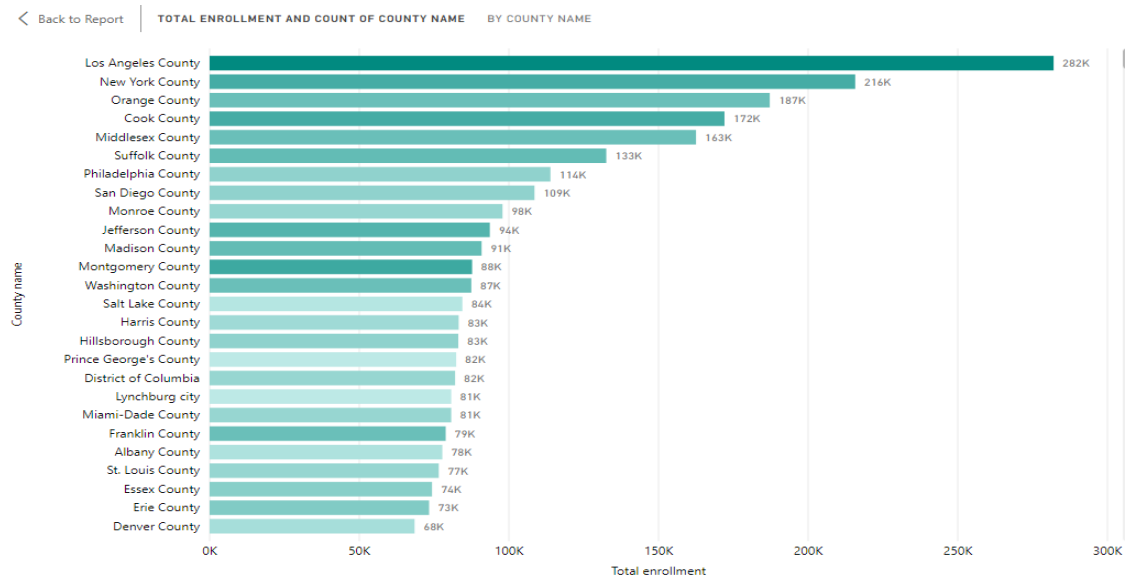


## 5. Which county has the highest number of enrollments?

### Clustered bar chart

#### Steps:

- Select the clusters bar chart option.
- Create a new column called Total Enrollment.
- Add Total Undergraduate Enrollment and total graduate enrollment use the formula
- ***“Total Enrollment = Total undergraduate Enrollment + total graduate enrollment”***



- Drag and drop the **Total Enrollment** measure to X-axis and **County Name** measure to Y axis. Sort Ascending
- In analytics tab check the labels option ON. Assign the desired color from a wide range of colors from the color pallet. Select **X & Y Axis label ON**.
- This shows the topmost county with maximum total enrollment.

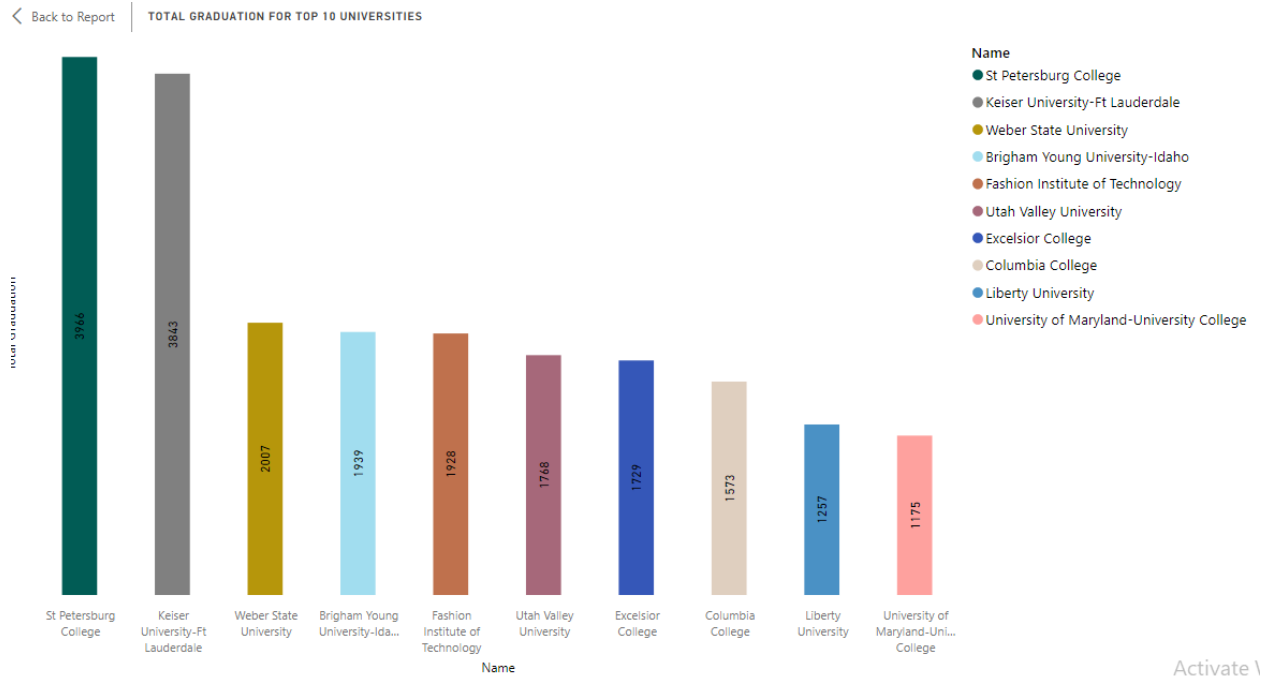
## 6. Total Graduation among Top 10 universities?

### Bar Chart Stacked.

#### Steps:

- Select the Bar chart stacked option.
- Create a calculated field total graduation
- The formula used is ***“Total Graduation = Data[Number of students receiving a Postbaccalaureate or Post-master's certificate] + Data[Number of students receiving an Associate's degree]”***
- Filter based on the requirement here the filter is applied for Top 10 Universities.

## Tutorial



- The various colors of the bar graph have been mentioned in the legend. To a legend to the graph. Click on Analytics tab check the Legends tab ON and choose data source from the dataset. Assign the desired color from a wide range of colors from the color pallet.
- Drag and drop Name to X- axis and total Graduation to Y-Axis. In analytics tab check the labels option ON. Select X & Y Axis label ON.