US DISTRICTS DATABASE TASK
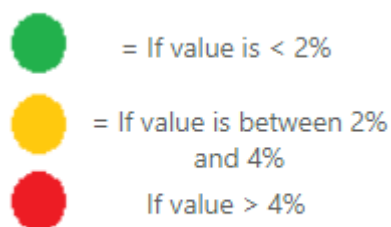
We have two tables in dataset: Late Payments and Ratification. Both contain data about US districts, quarters, and associated values.
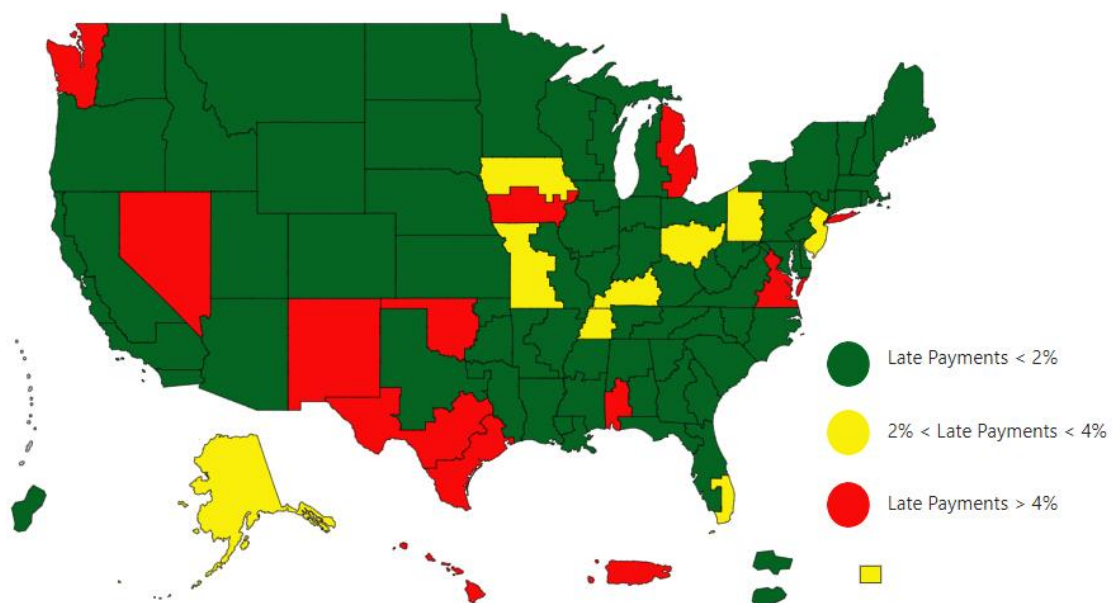
STEP - 1

Our goal is to create two district maps of the United States(one for each table) in Power BI.

- The map should display data at the district level.

- District names should be sourced from the database.

- The map should show values corresponding to each district.

- The map should use color-coding to visually represent different value ranges, as shown in the image below.

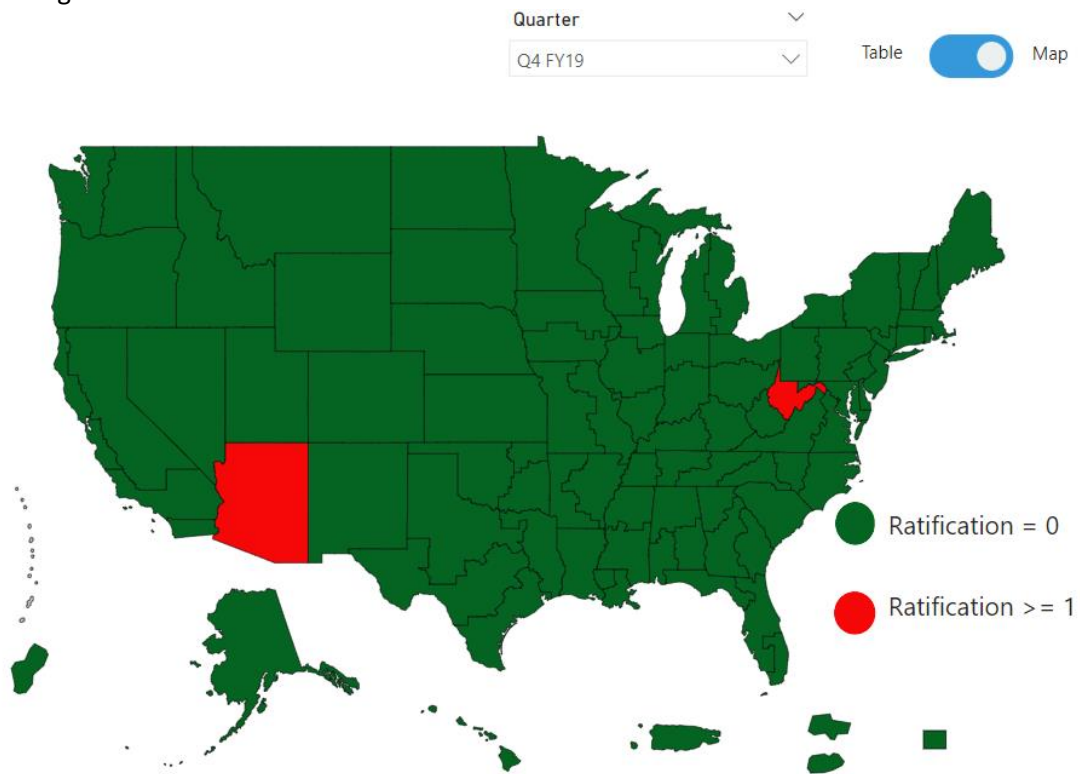 For Table 1 the conditional formatting is as follows -

Example image -

For Table 2 the conditional formatting is as follows -

= If value is 0

= If value is 1 or >1

Example image -

STEP – 2

Data Filtering and Visualization:

1. **Quarterly Data Filtering:**

   o The database contains data for eight quarters.
   o When a user selects a specific quarter from a filter, the visualization should display the data for the last four quarters and include the selected quarter. The data should be shown over the tooltip which has a line graph.

      Like in below Example:
   o If user will select value: "Q2 FY20" So these value should be shown in the line chart:
   o "Q2FY19", "Q3FY19", "Q4FY19", "Q1FY20", "Q2FY20".
   o These QTR should be sorted in same order like shown above.

2. **Data Visualization:**

Tooltip: Detailed data for the hovered-over district should be shown in a tooltip.
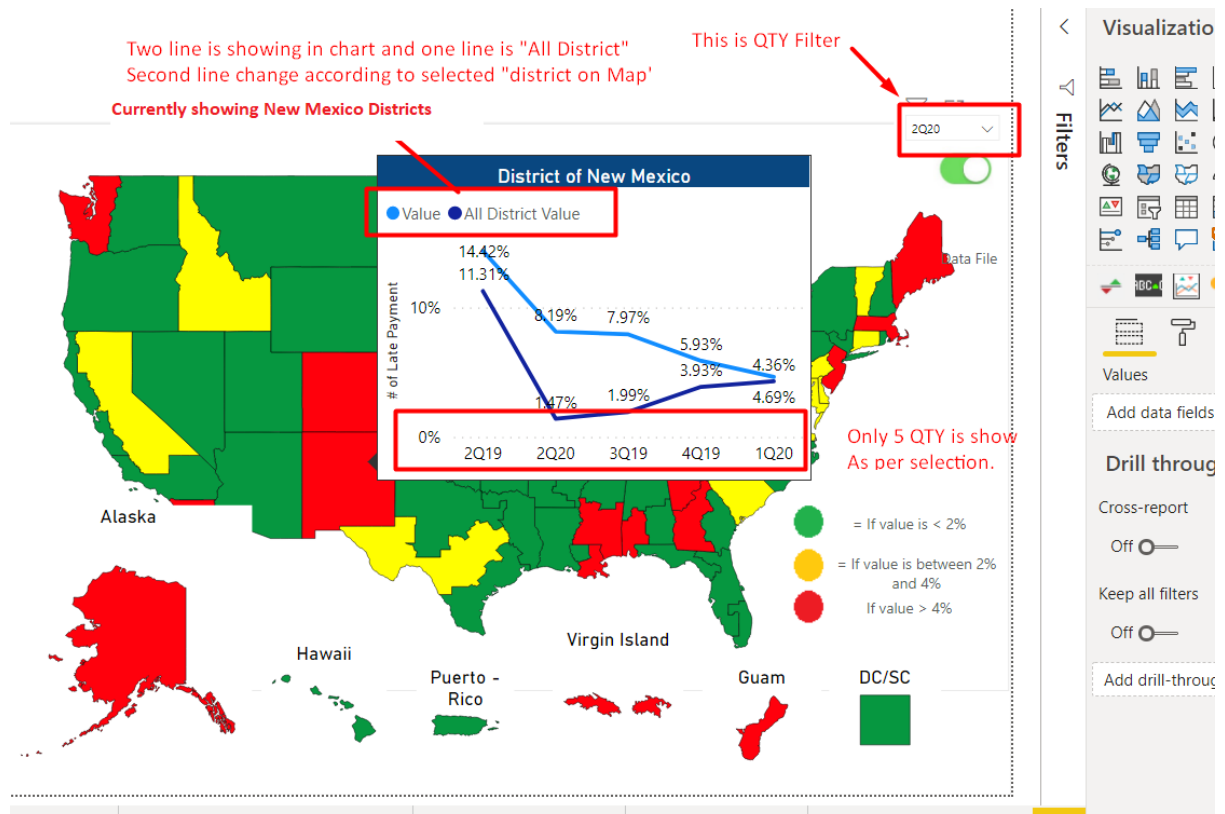
Line Chart:

A line chart should be used to visualize the trend of the data over the last five quarters.
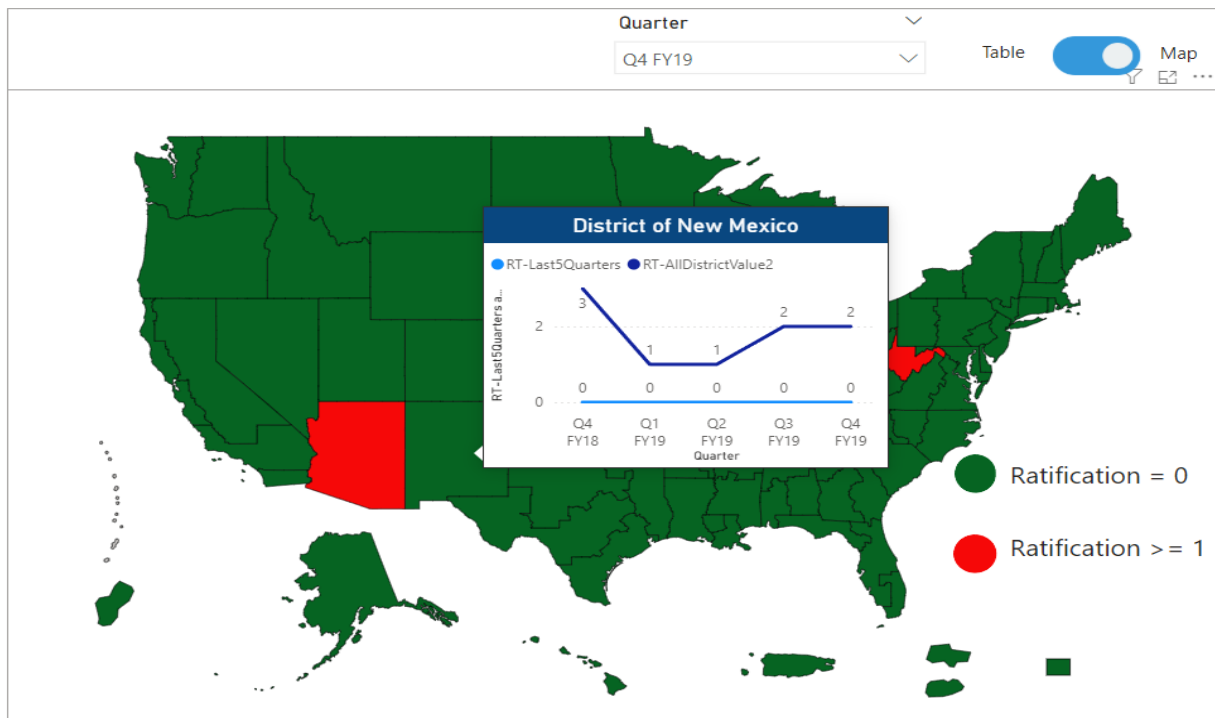
Two lines should be plotted on the chart:

All Districts: This line represents value for all districts.

Current District: This line represents the value for the specific district being hovered over.

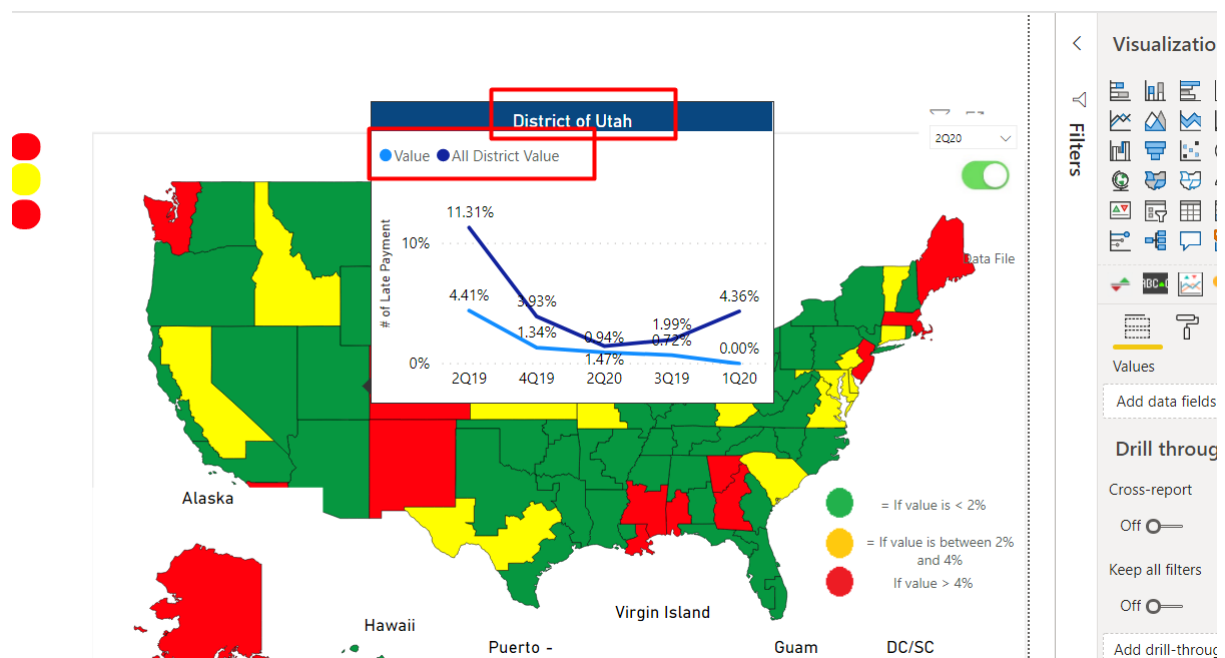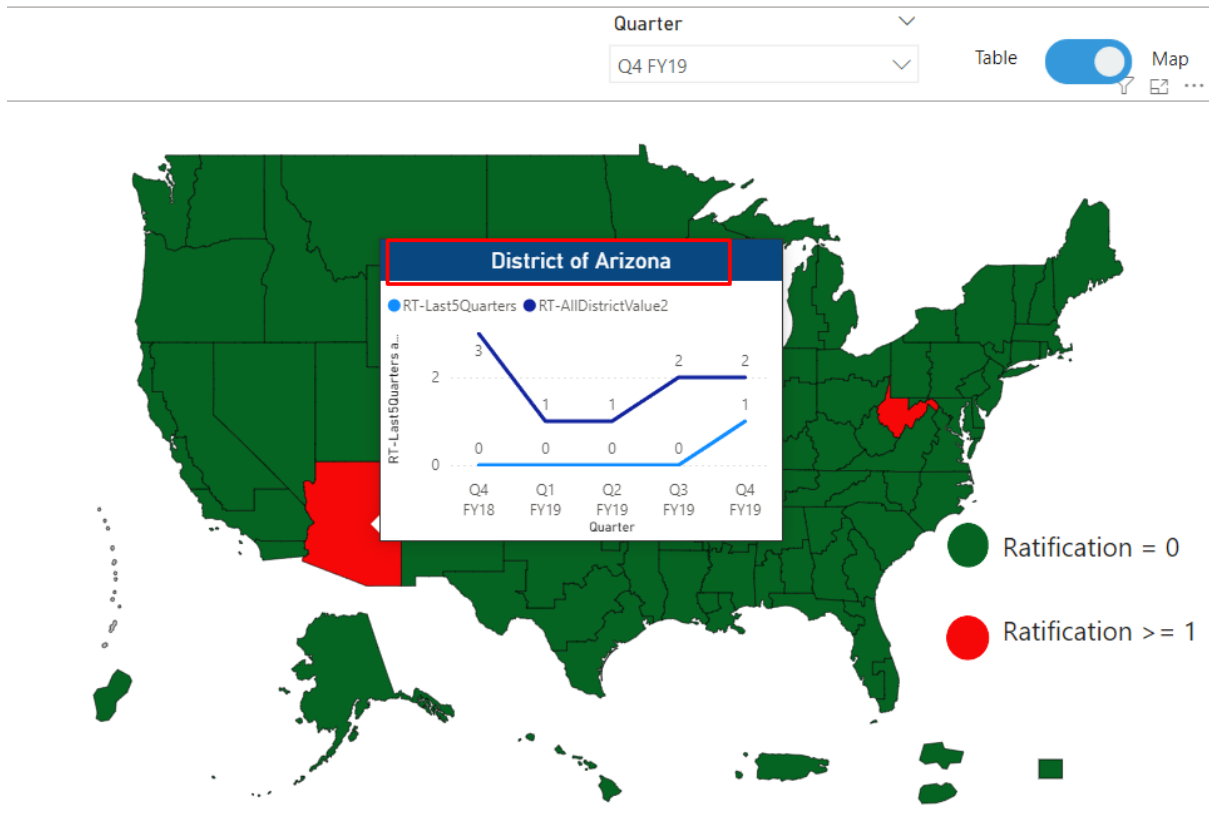Example image for table 1 -

Example image for table 2 -

In the following second image when we hover onto second District then values shown on the line change according to the district we hover on, and the Name of District on top also changes. Check below image
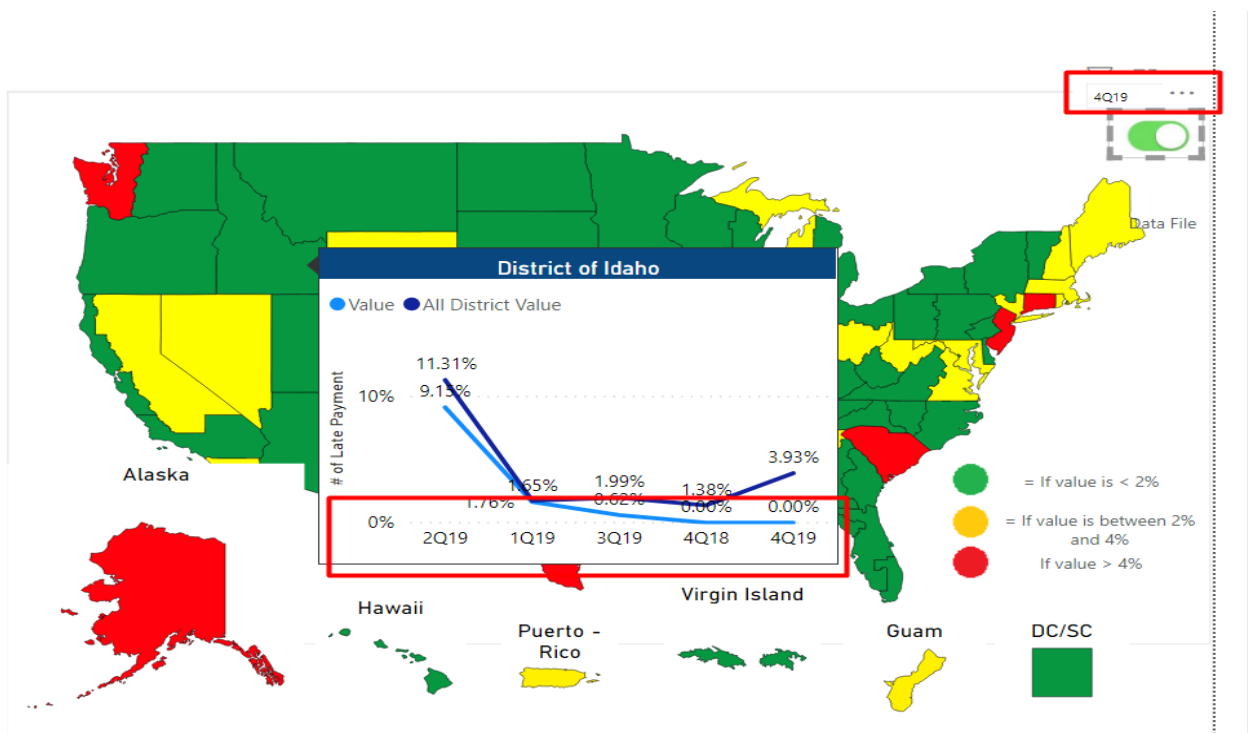
Example image for table 1 -
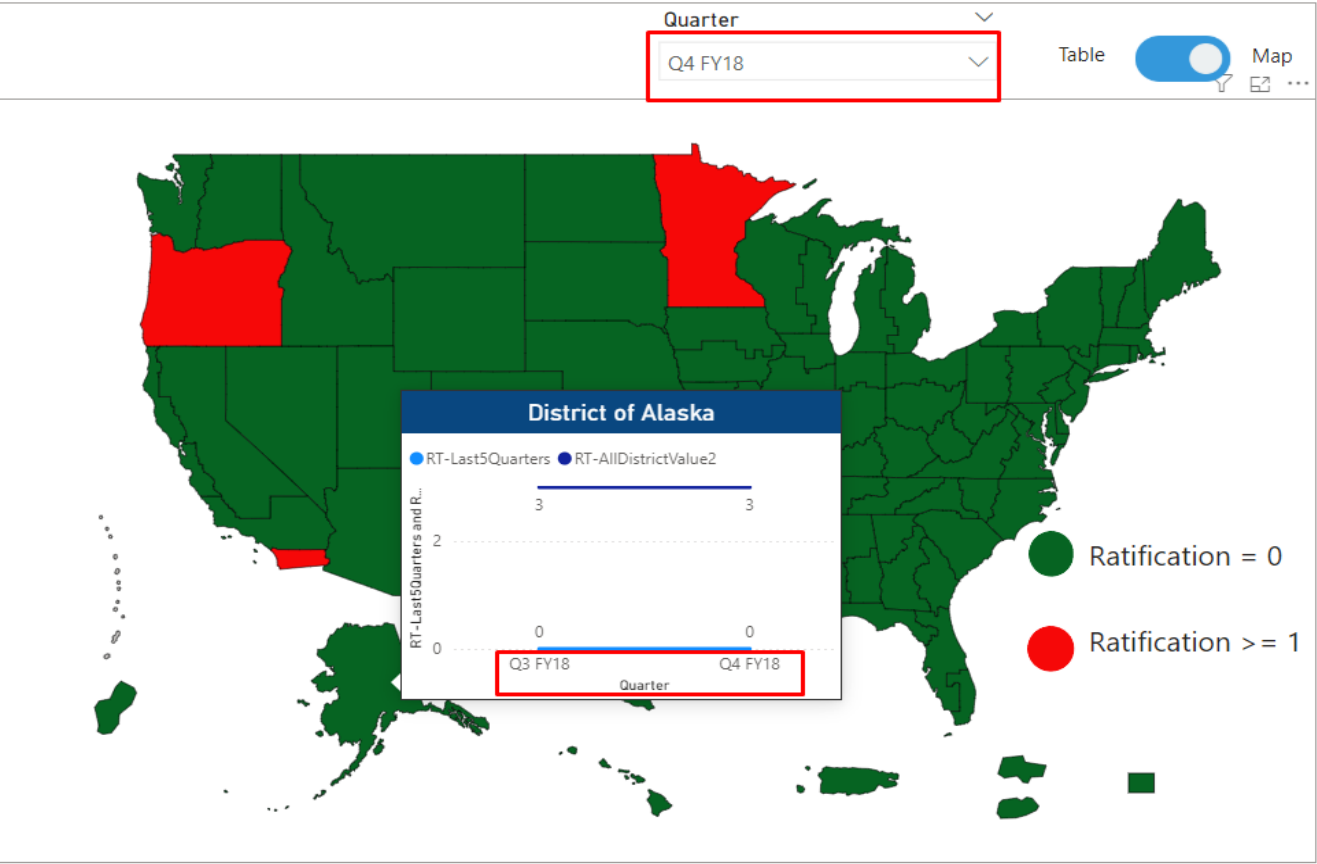

Example image for table 2 -

In third Image when we change the value selected in the filter then observe that the QTR number also changes according to the selected value.

Example image for table 1 -
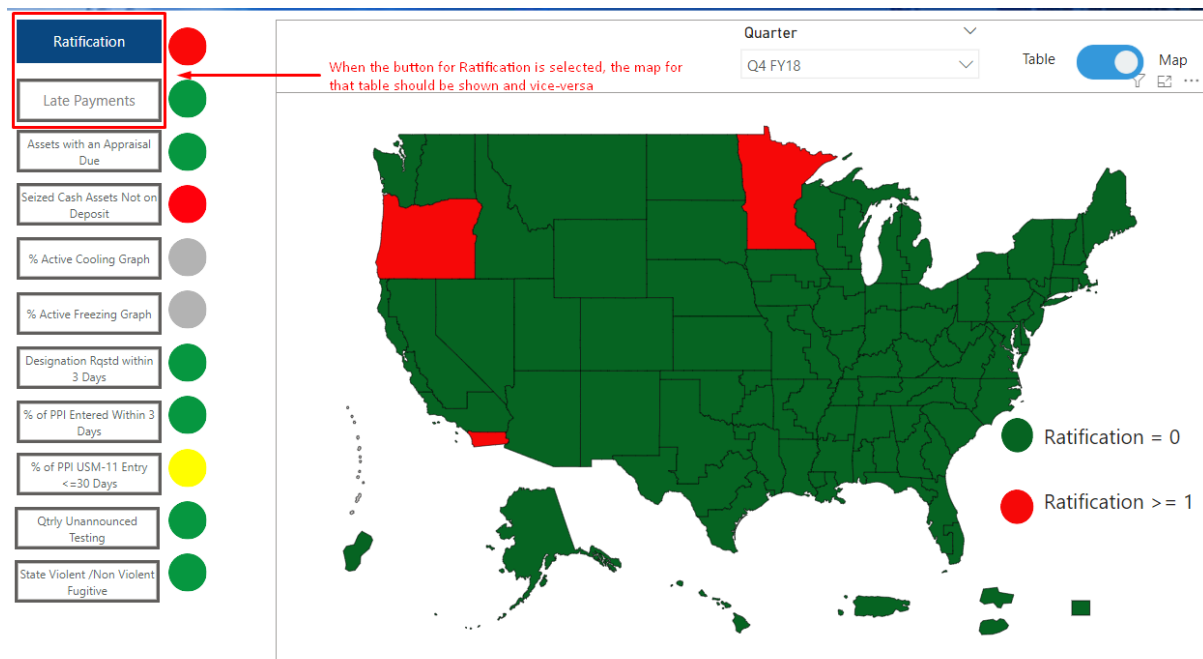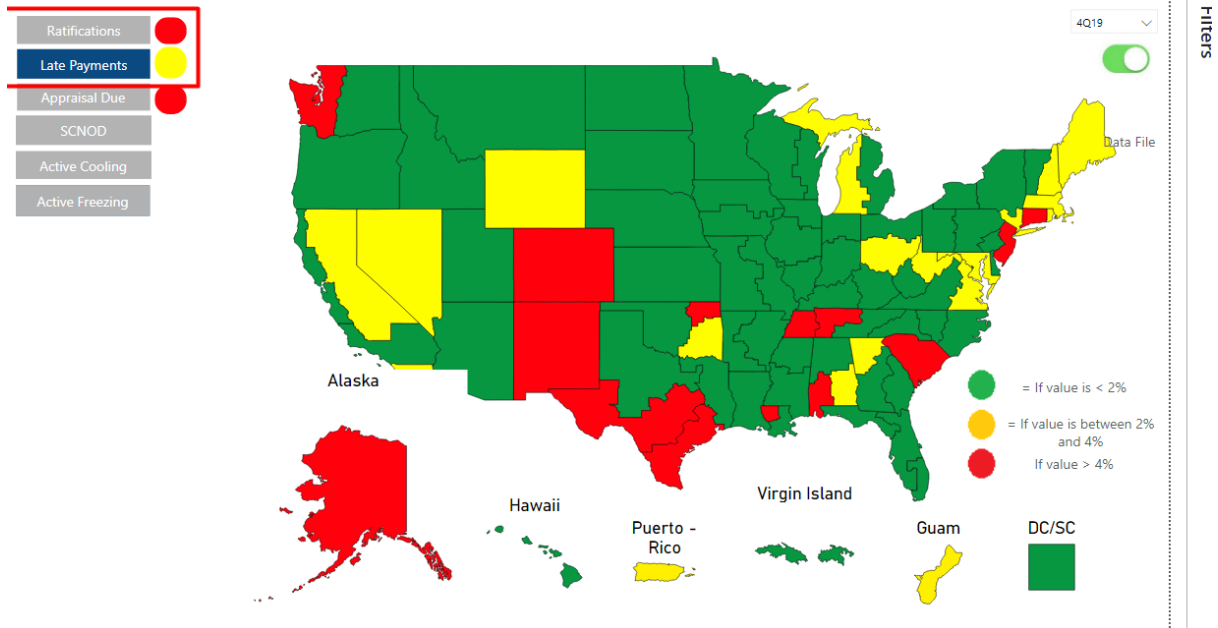
Example image for table 2 -

STEP – 3

When you achieve the above tasks, you need to create bookmarks to show these two maps on same page. In the database, there are two tables: Late Payments and Ratifications. One map should be created for each table.

Note: I don't want page-level bookmarks.

Two button bookmaking

When the button for Ratification is selected, the map for that table should be shown and vice-versa

Note: QTR and values should be shown same as showing in the image. Also **sorting of QTR** is mandatory.