



KONGU ENGINEERING COLLEGE



(Autonomous)

PERUNDURAI, ERODE- 638 060

2021 - 2022

1 CREDIT COURSE 2021-22(Even Sem)

DATA VISUALIZATION USING TABLEAU

PROJECT PRESENTATION

Name & Roll No: MIDHUNA A-20ITR064

PRIYADHARSHINI M-20ITR081

RAKSHANA DEVI V S-20ITR086

Branch : INFORMATION TECHNOLOGY

Semester : IV SEMESTER

Year : SECOND YEAR

Section : B



AIM:

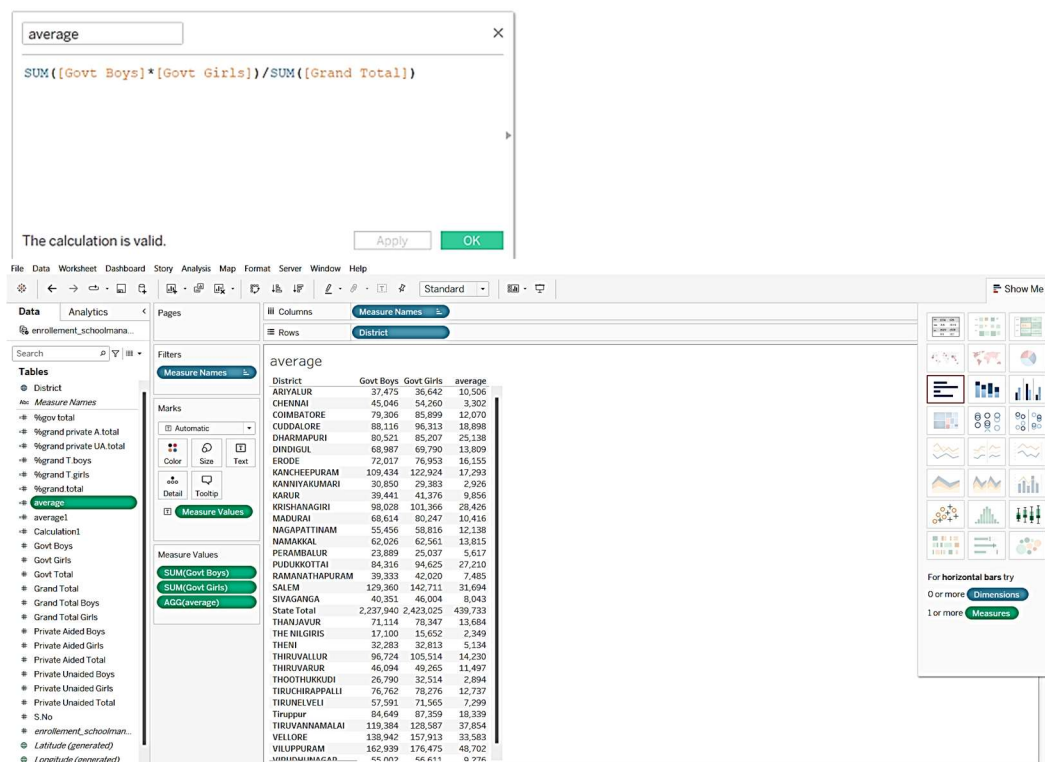
To implement the following questions for the data set :enrollment_schoolmanagement using data visualization tool in tableau.

1.Show the records of average of govt Boys and girls students getting educated, so that the user can analyse a particular district govt schools.

STEPS INVOLVED:

- Drag and drop districts to rows.
- Drag and drop govt boys and govt girls to columns.
- Then find the average of govt boys and govt girls using calculation field to show the records of average of govt Boys and girls students getting educated.

SCREENSHOT:



OBSERVATION MADE:

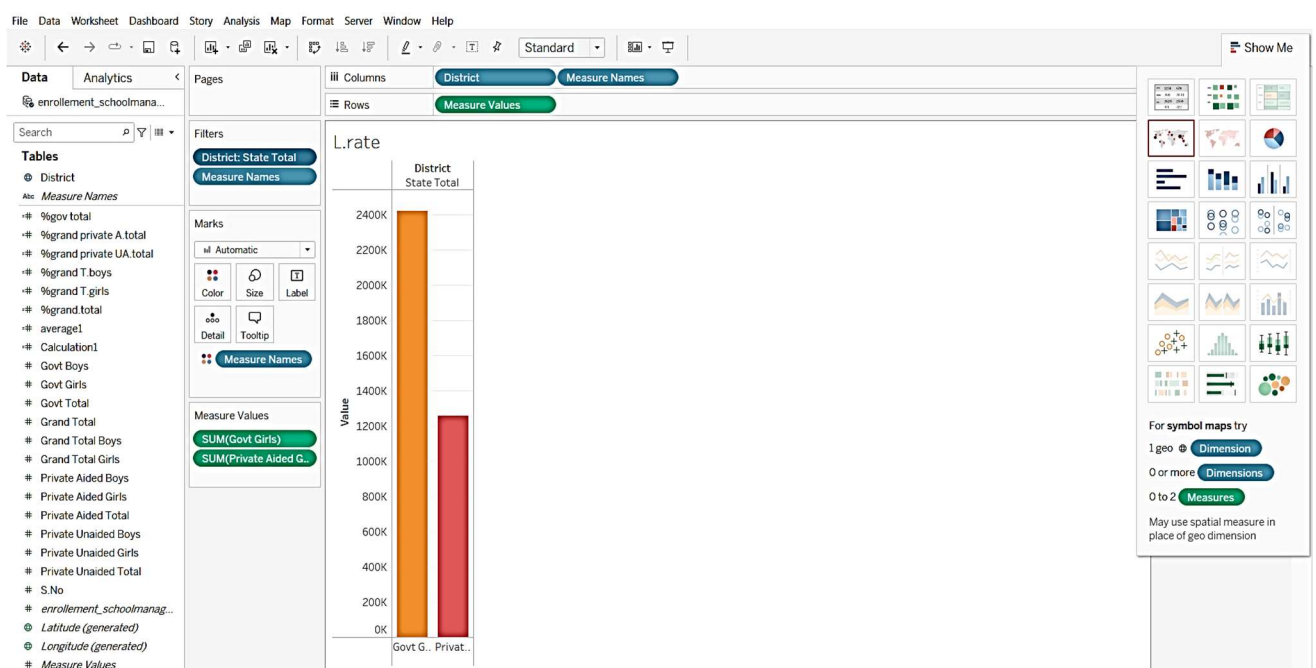
Here, we have shown the records of average of govt Boys and girls students getting educated using calculation field.

2. Analyse and conclude whether the govt girls or private aided girls has enormous literacy rate by accessing the corresponding fields.

STEPS INVOLVED:

- Drag and drop districts to columns.
- Drag and drop govt girls and private aided girls to rows.
- Drag and drop districts to filter.
- Filter the state total in districts to get the enormous literacy rate between govt girls and private aided girls.

SCREENSHOT:



OBSERVATIONS MADE:

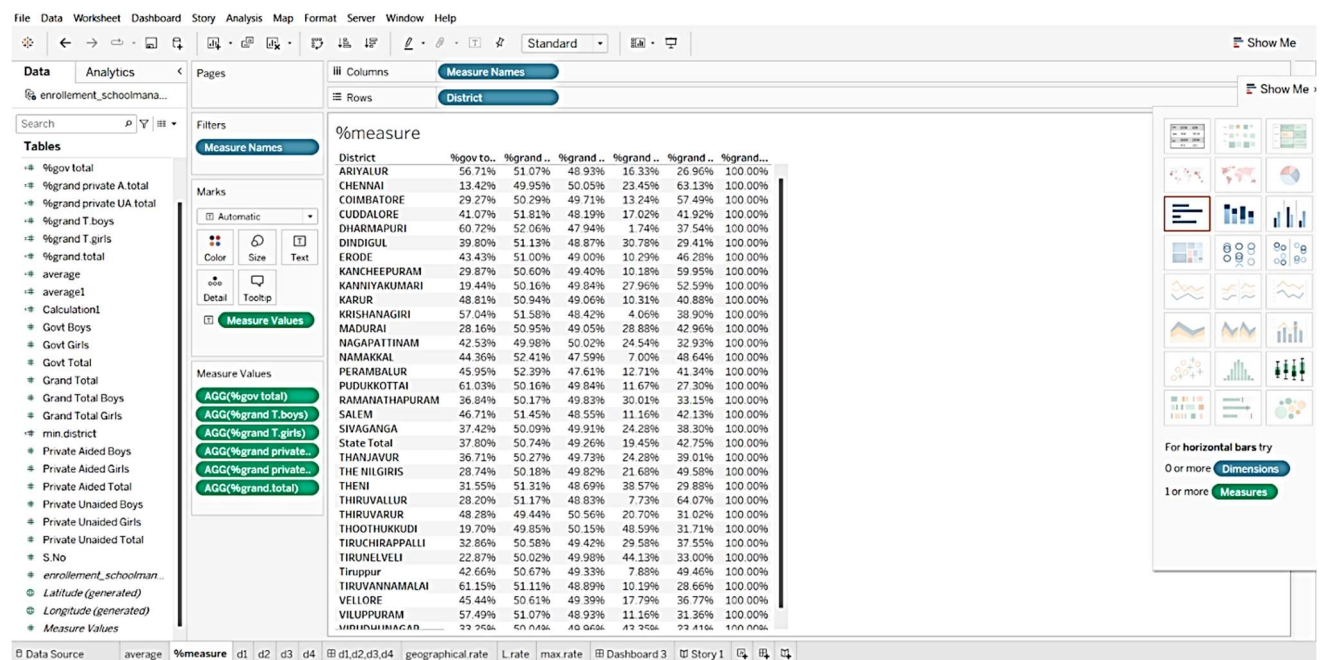
Here, we have analysed and conclude that the govt girls have a enormous literacy rate than the private aided girls by accessing the corresponding fields.

3. List the percentage of students in each district by row in pane.

STEPS INVOLVED:

- Drag and drop districts to rows.
- Using calculated field, find the percentage of all the students in each district.
- Drag and drop percentage of govt total, grand total, grand total boys, grand total girls, grand private aided total, grand private unaided total.

SCREENSHOT:



OBSERVATIONS MADE:

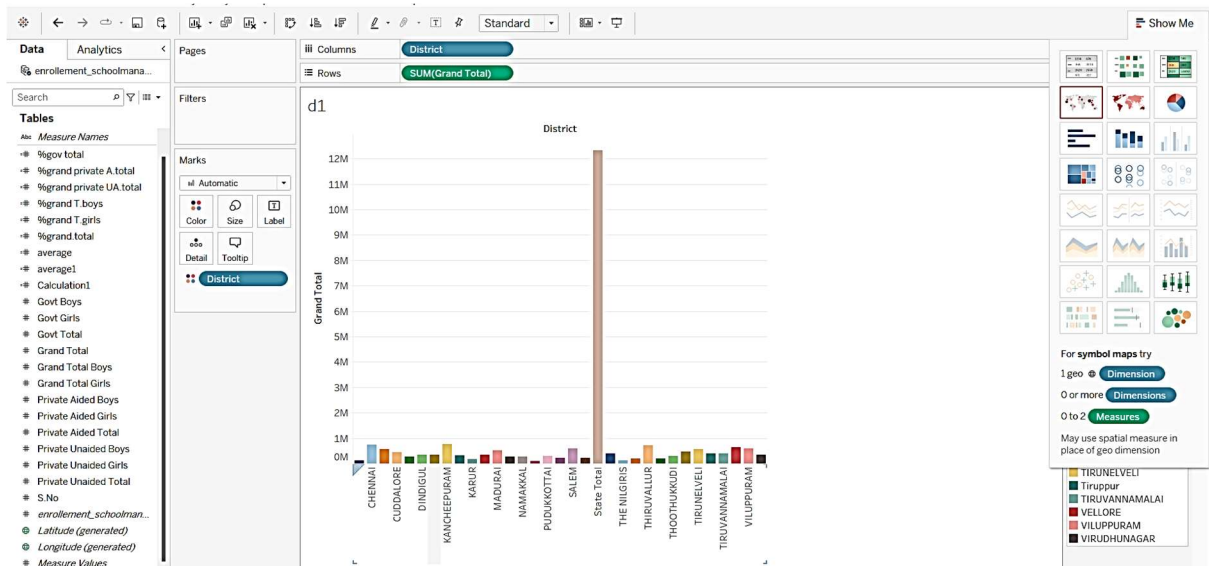
Here, we have listed the percentage of students in each district by row in pane

4. Create a user interactive dashboard that can fetch the educational analysis of every district pointed.

VERTICAL BAR GRAPH-STEPS INVOLVED:

- Drag and drop grand total to columns.
- Drag and drop districts to rows.
- Drag and drop districts to colour to get a vertical bar graph.

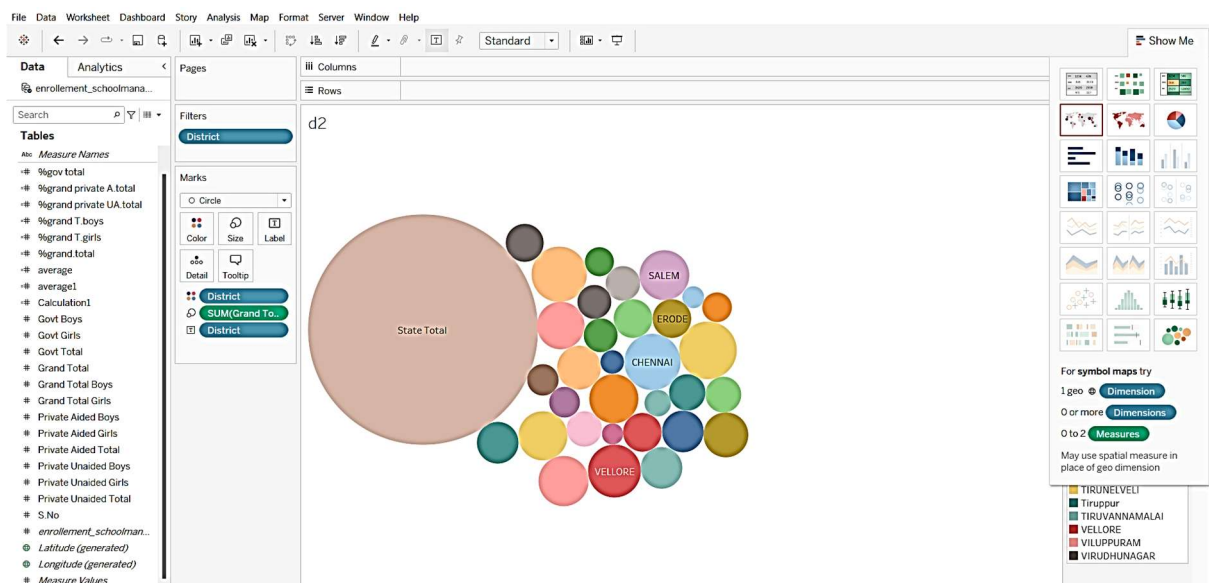
SCREENSHOT:



PACKED BUBBLES-STEPS INVOLVED:

- Drag and drop districts to the columns and grand total to rows.
- And click packed bubbles to display in colour drag and drop district to colour.
- Now the required graph is displayed.

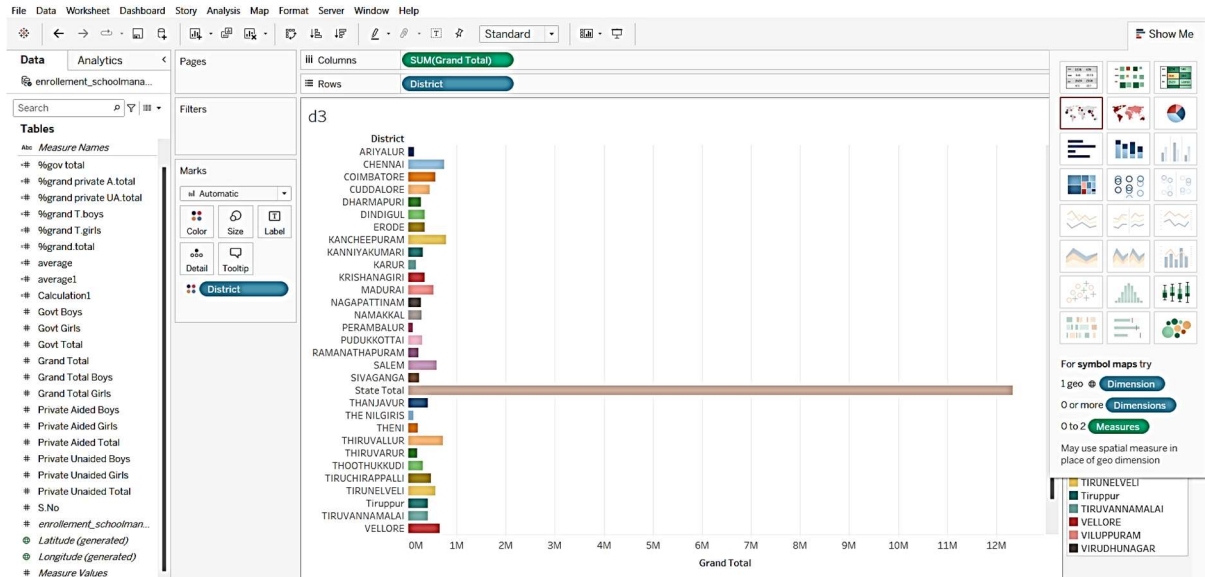
SCREENSHOT:



HORIZONTAL BAR GRAPH-STEPS INVOLVED:

- Drag and drop grand total to columns.
- Drag and drop districts to rows.
- Drag and drop districts to colour to get a horizontal bar graph.

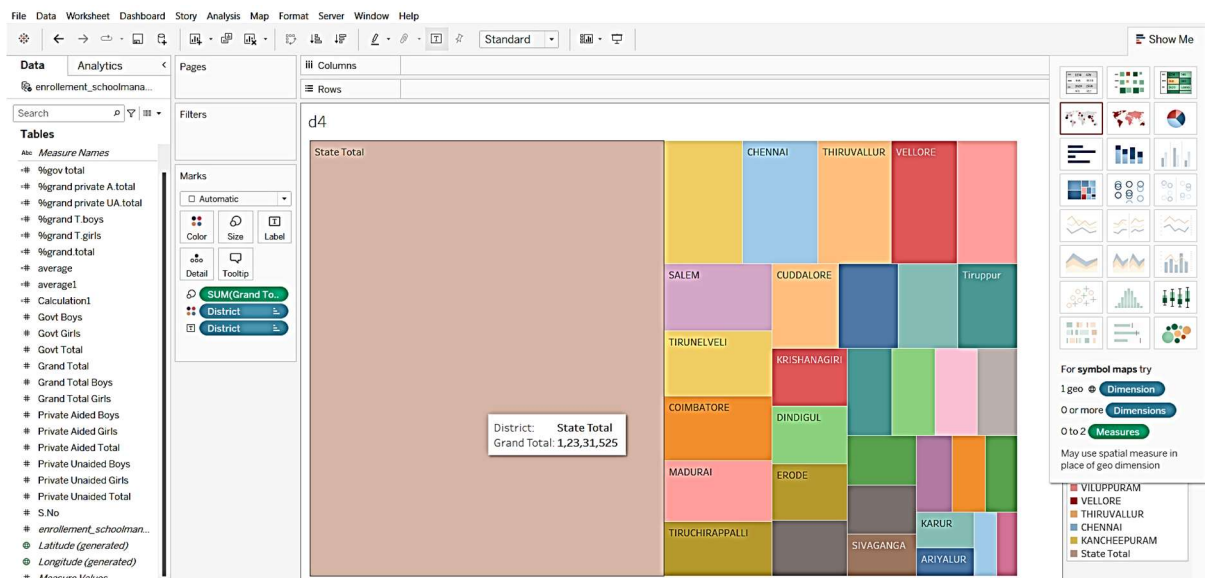
SCREENSHOT:



TREE MAPS- STEPS INVOLVED:

- Drag and drop district to columns.
- Drag and drop grand total to rows and in show me click tree maps.
- Now drop district to colour.
- If we need drop district to Label.
- Created a calculated field to show the grand total of students (calculated field).

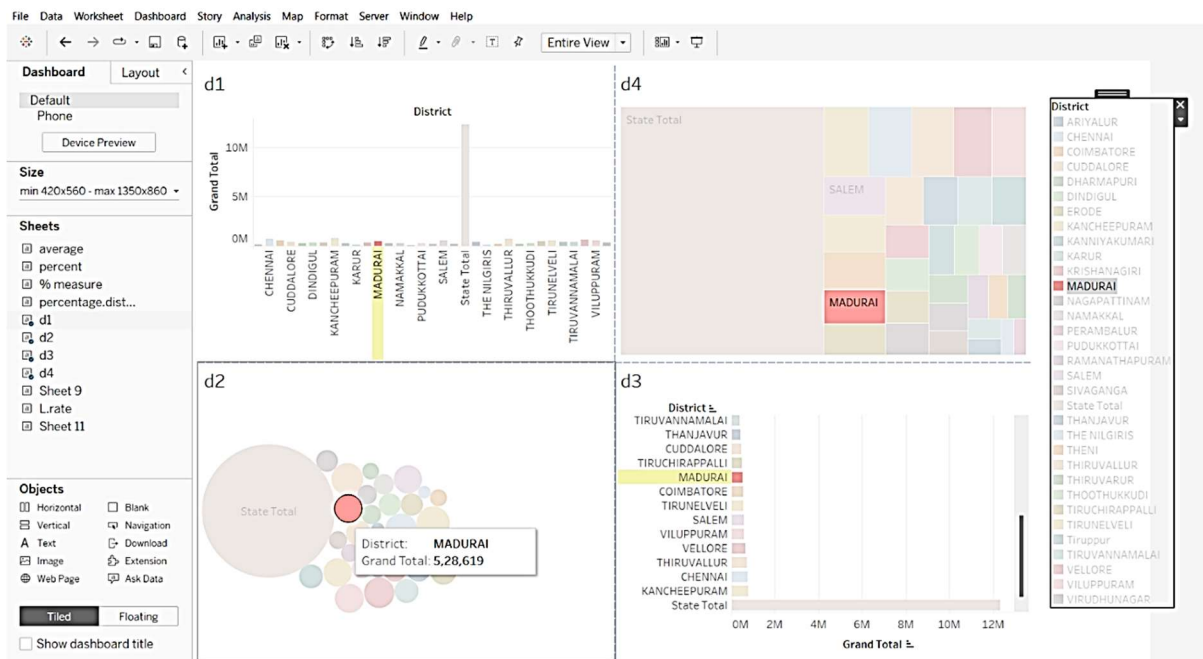
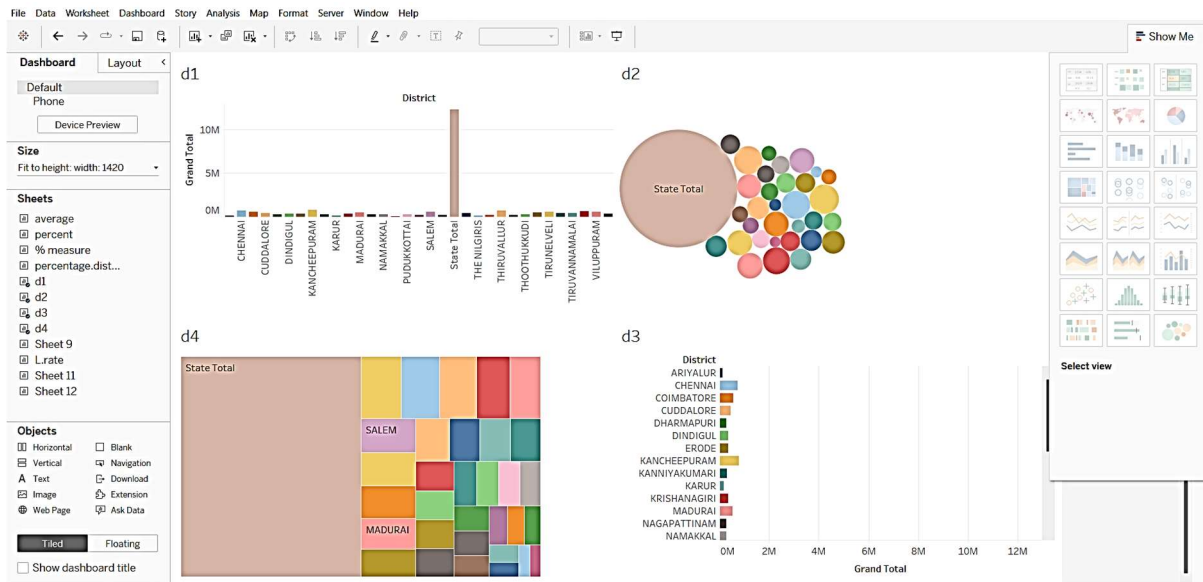
SCREENSHOT:



DASHBOARD-STEPS INVOLVED:

- Now we need to display all the sheets in one single page is called dashboard.
- Drag and drop horizontal into the sheets. There will be a blue labeled displayed if fixed correctly.
- Now drag and drop all the sheets it will be displayed in horizontal manner.

SCREENSHOT:



OBSERVATIONS MADE:

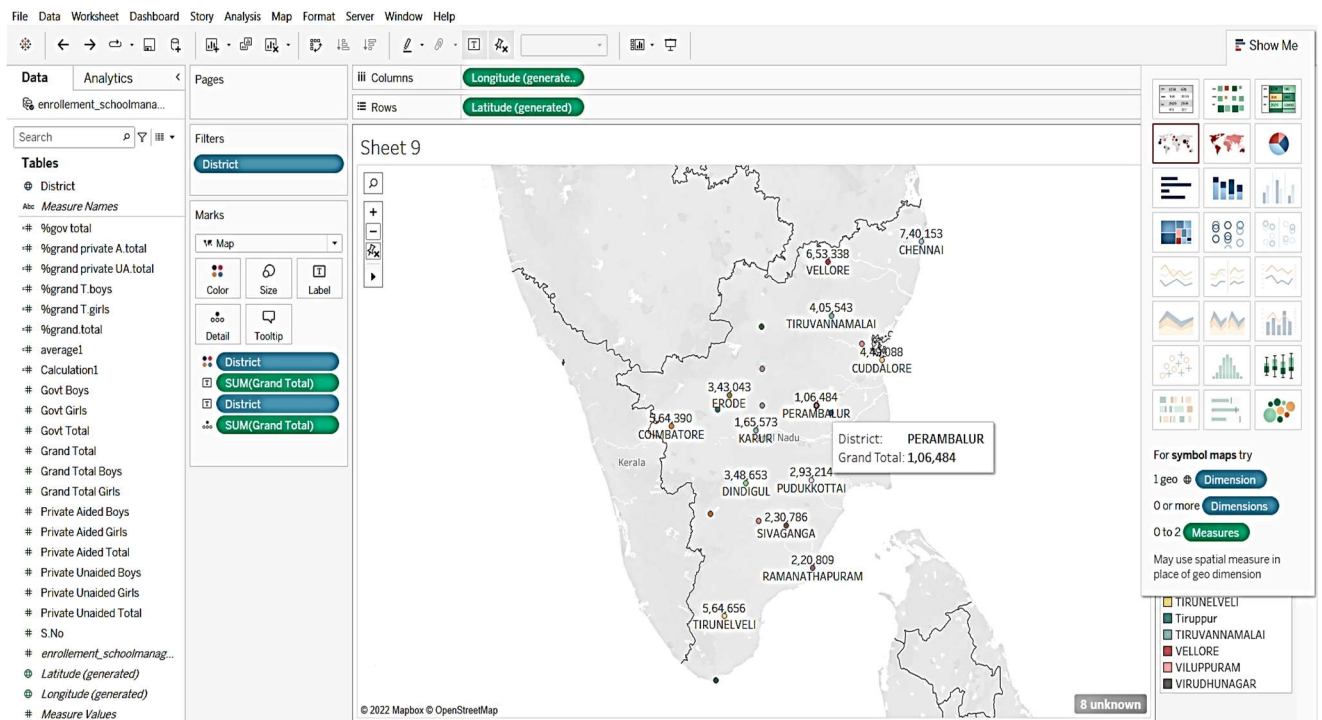
Thus, we have created a user interactive dashboard that can fetch the educational analysis of every district pointed

5. Analyse the section's educational rate with help of geographical maps and identify the district with minimum educational rate.

STEPS INVOLVED:

- Drag and drop districts to rows
- Drag and drop grand total to columns.

SCREENSHOT:



OBSERVATIONS MADE:

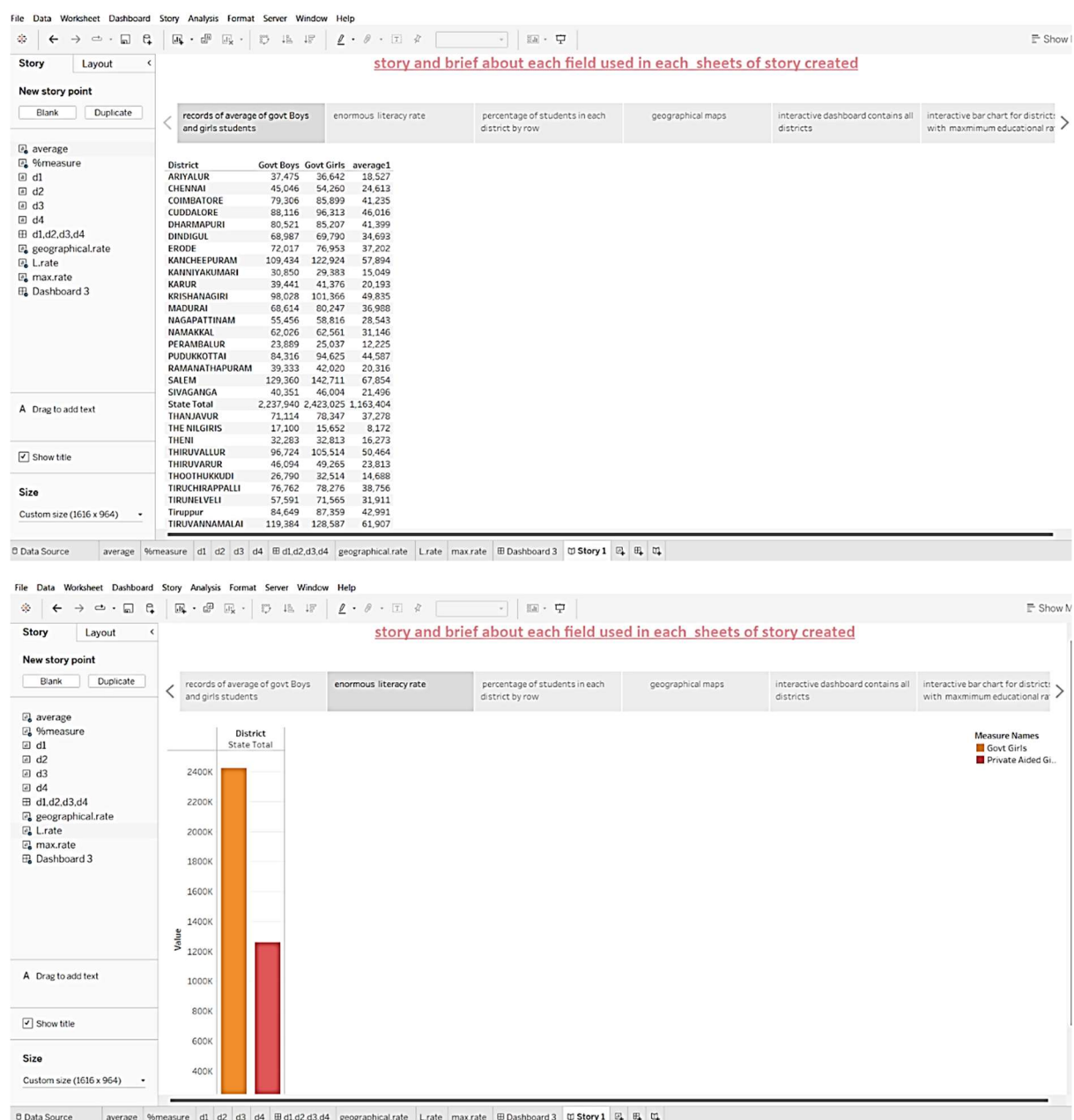
Here, we have analysed the section's educational rate with help of geographical maps and identified the district with minimum educational rate.

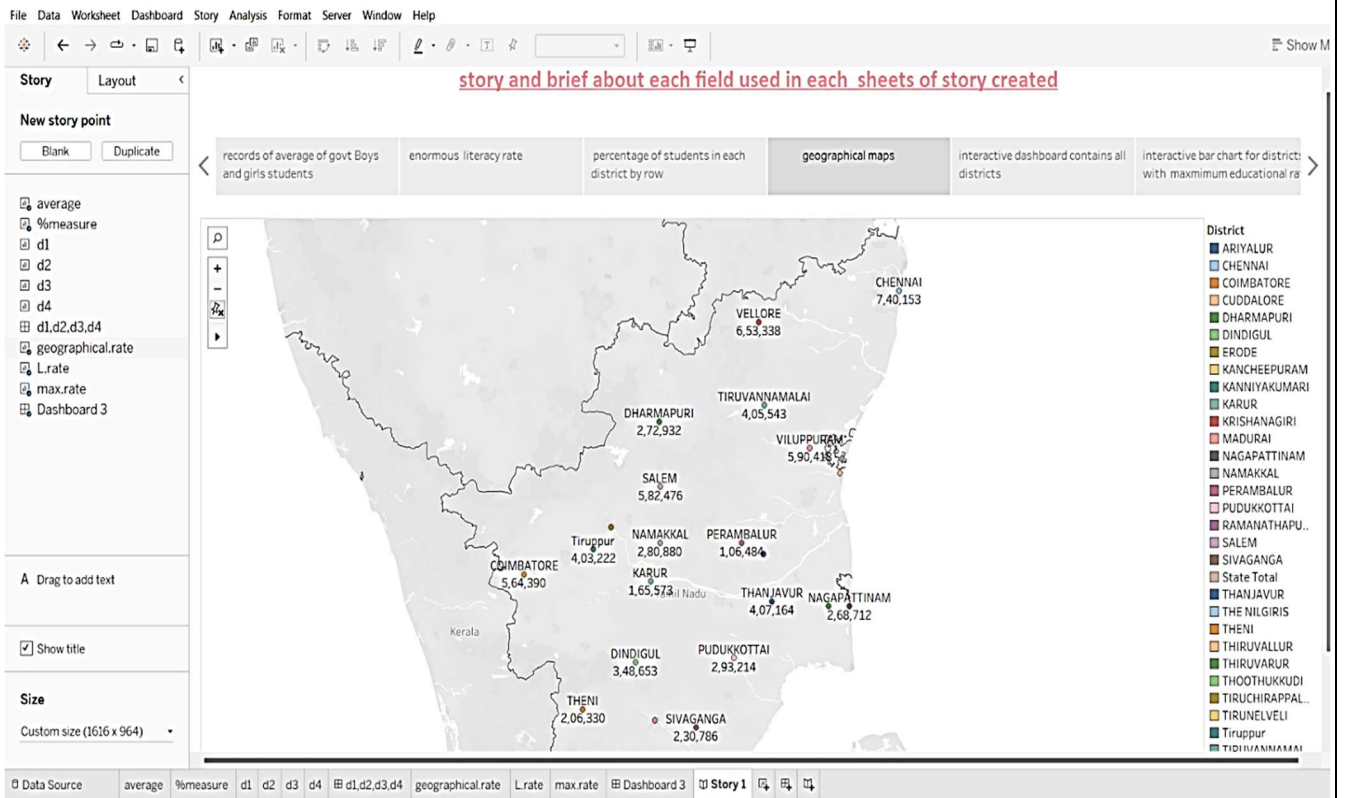
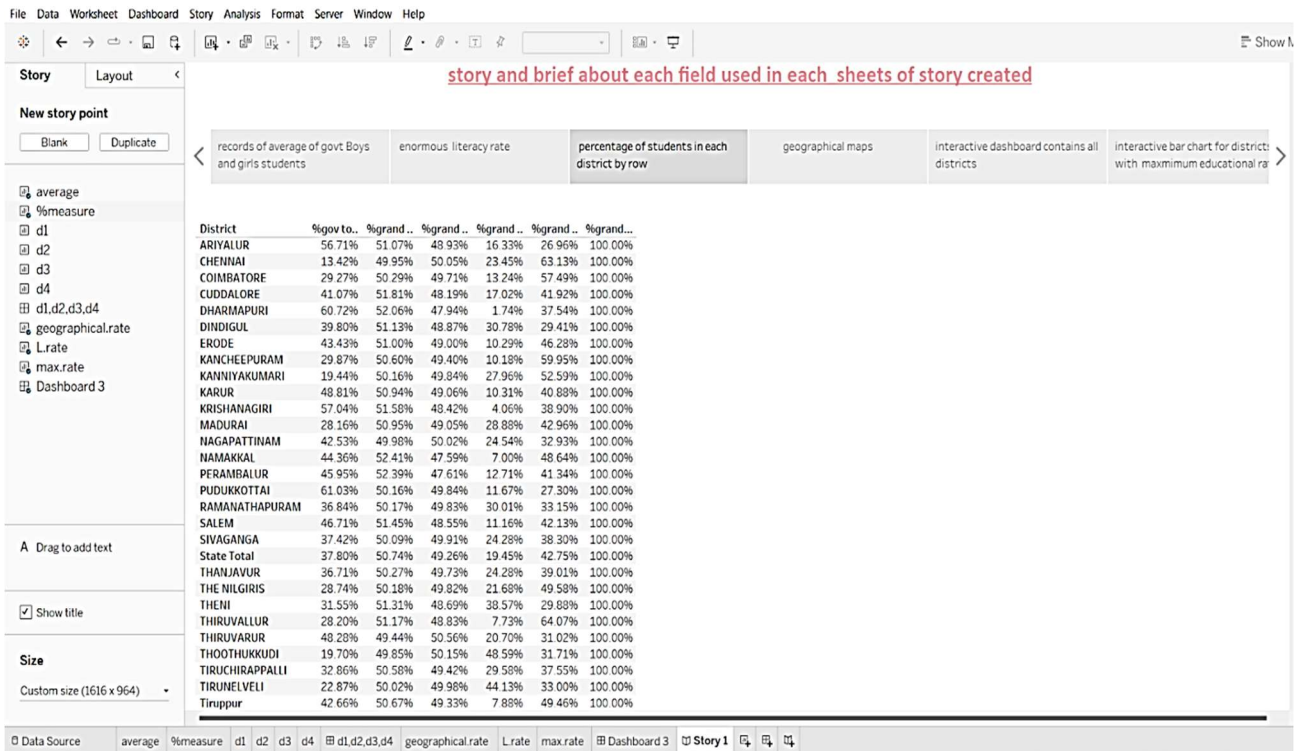
6. Duplicate a sheet used above, in story and brief about each field used in each sheet of story created.

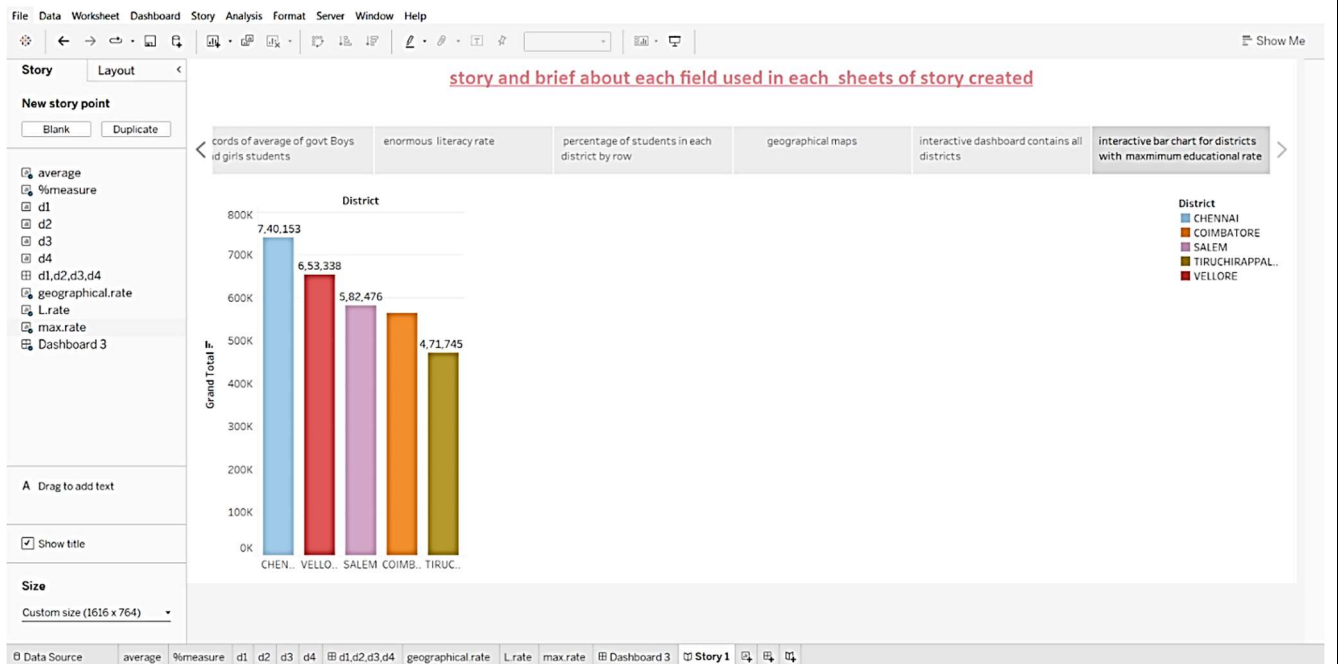
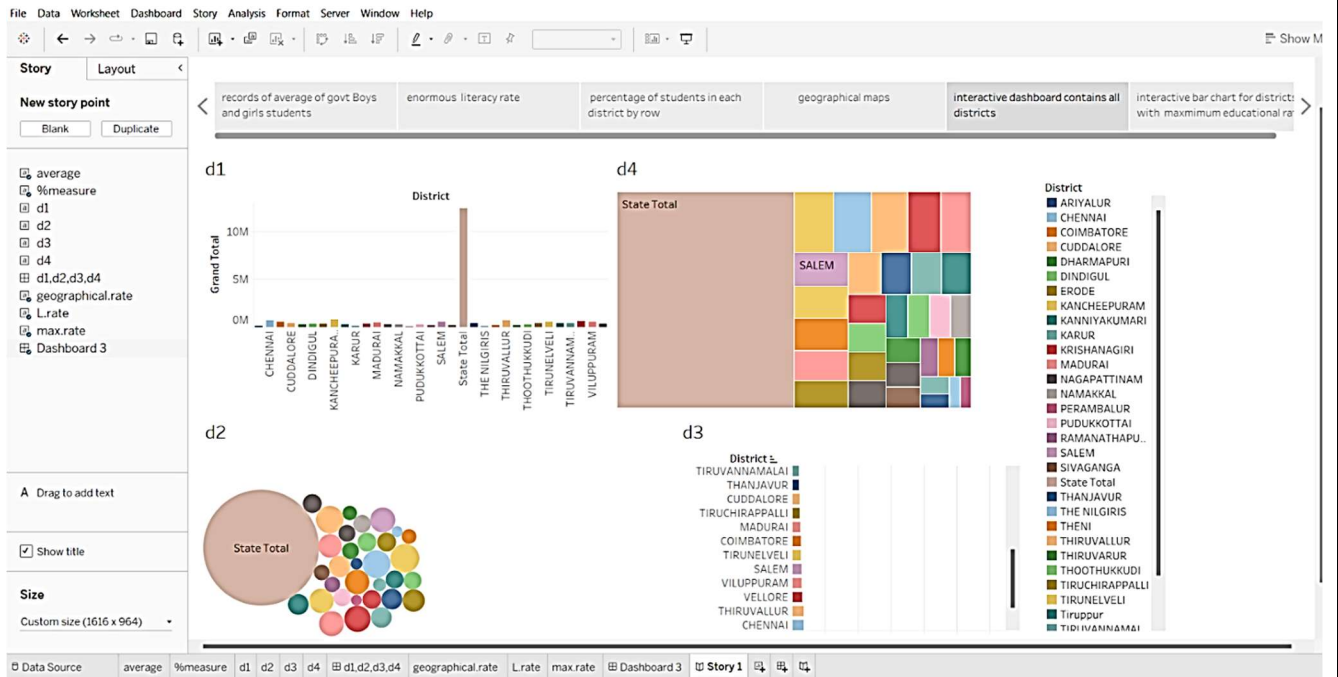
STEPS INVOLVED:

- Drag and drop all the sheets into the story board
- Change the title by double clicking on the title text and we can also add a caption to summarize the story point by clicking on add a caption
- Drag the caption area and adjust the size which is possible to add another story point by dragging and bringing another sheet to drop on the story board
- This is where a sequence of various sheets will be created.

SCREENSHOT:







OBSERVATIONS MADE:

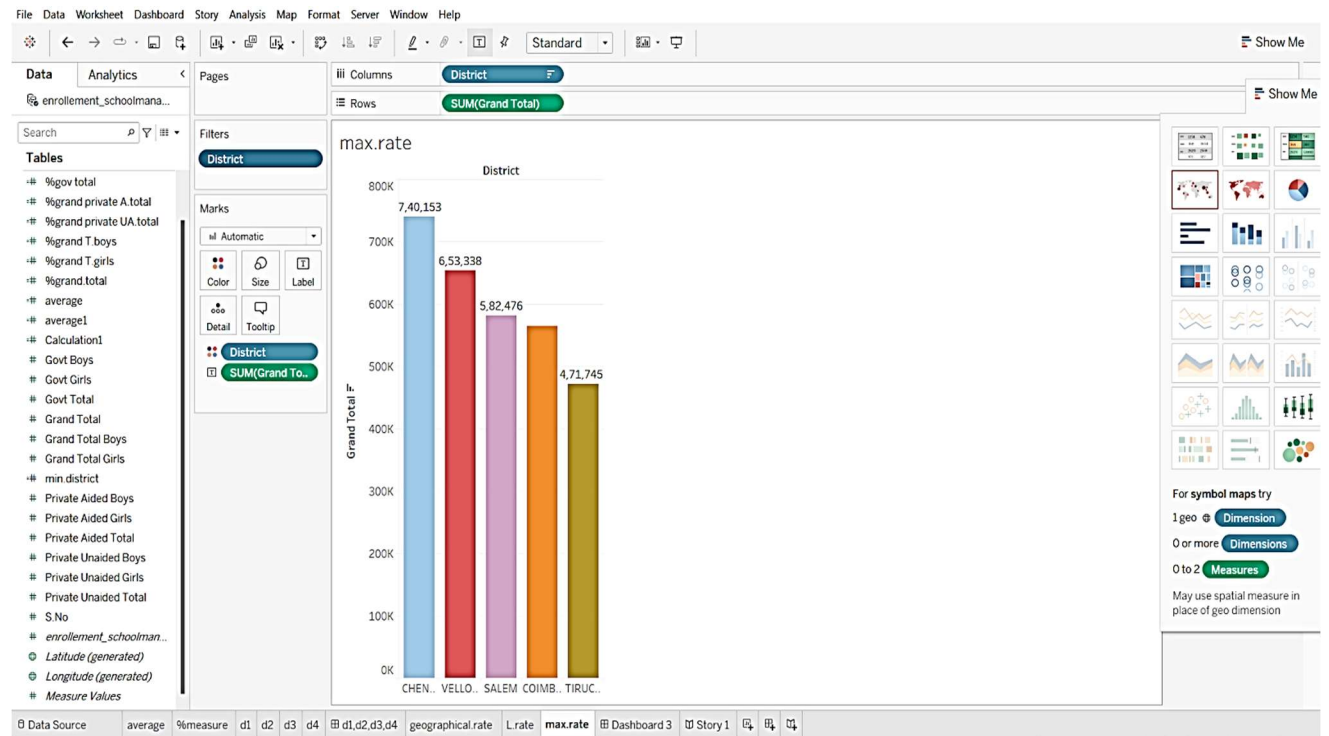
Here, we have duplicated a sheet used above, in story and briefed about each field used in each sheet of story created.

7.create a parameterized interactive bar chart to know the top five districts with maximum educational rate.

STEPS INVOLVED:

- Drag and drop districts in column.
- Drag and drop the grand total in row and use districts in filter.
- Now drop district to colour.
- If we need drop district to Label.

SCREENSHOT:



OBSERVATIONS MADE:

Here, we have created a parameterized interactive bar chart to know the top five districts with maximum educational rate. Thus, the Districts Chennai, Vellore, Salem, Coimbatore, Tiruchirappalli are the top 5 districts with maximum educational rate.

8. Try to export the sheets to all the formats possible from tableau and analyses it.

STEPS INVOLVED:

- To export all the sheets, save the project
- It will navigate to the tableau profile, then click the publish button
- The sheets get exported, then download the formats possible from tableau and analyse.

SCREENSHOTS:

The top screenshot shows the Tableau Public interface with a worksheet named 'average'. The columns are District, Govt Boys, Govt Girls, and average1. The rows list various districts and their corresponding values for Govt Boys, Govt Girls, and average1. The bottom screenshot shows the same worksheet with a 'Publish Workbook' dialog box open, allowing the user to publish the workbook to Tableau Public.

District	Govt Boys	Govt Girls	average1
ARIYALUR	37,475	36,642	18,527
CHENNAI	45,046	54,260	24,613
COIMBATORE	79,306	85,899	41,235
CUDDALORE	88,116	96,313	46,016
DHARMAPURI	80,521	85,207	41,399
DINDIGUL	68,987	69,790	34,693
ERODE	72,017	76,953	37,202
KANCHEEPURAM	109,434	122,924	57,894
KANNIYAKUMARI	30,850	29,383	15,049
KARUR	39,441	41,376	20,193
KRISHNAGIRI	98,028	101,366	49,835
MADURAI	68,614	80,247	36,988
NAGAPATTINAM	55,456	58,816	28,543
NAMAKKAL	62,026	62,561	31,146
PERAMBALUR	23,889	25,037	12,225
PUDUKKOTTAI	84,316	94,625	44,587
RAMANATHAPURAM	39,333	42,020	20,316
SALEM	129,360	142,711	67,854
SIVAGANGA	40,351	46,004	21,496
State Total	2,237,940	2,423,025	1,163,404
THANJAVUR	71,114	78,347	37,278
THE NILGIRIS	17,100	15,652	8,172
THIRU	32,282	32,812	16,272

publictableau.com/authoring/schoolmanagement/average#1

schoolmanagement (Tableau Public)

File Data Worksheet Dashboard Analysis Map Format Help

enrollement_schoolma...

Search

Tables

- District
- Measure Names
- %gov total
- %grand private A.Lo...
- %grand private U.A.L...
- %grand T.boys
- %grand T.girls
- %grand total
- Calculation
- Govt Boys
- Govt Girls
- Govt Total
- Grand Total
- Grand Total Boys
- Grand Total Girls
- min.district
- Private Aided Boys
- Private Aided Girls
- Private Aided Total
- Private Unaided Boys

Filters

Measure Names

Marks

Automatic

Color Size Text

Detail Tooltip

Measure Values

SUM(Govt Boys)

SUM(Govt Girls)

AGG(average)

Columns

Measure Names

Rows

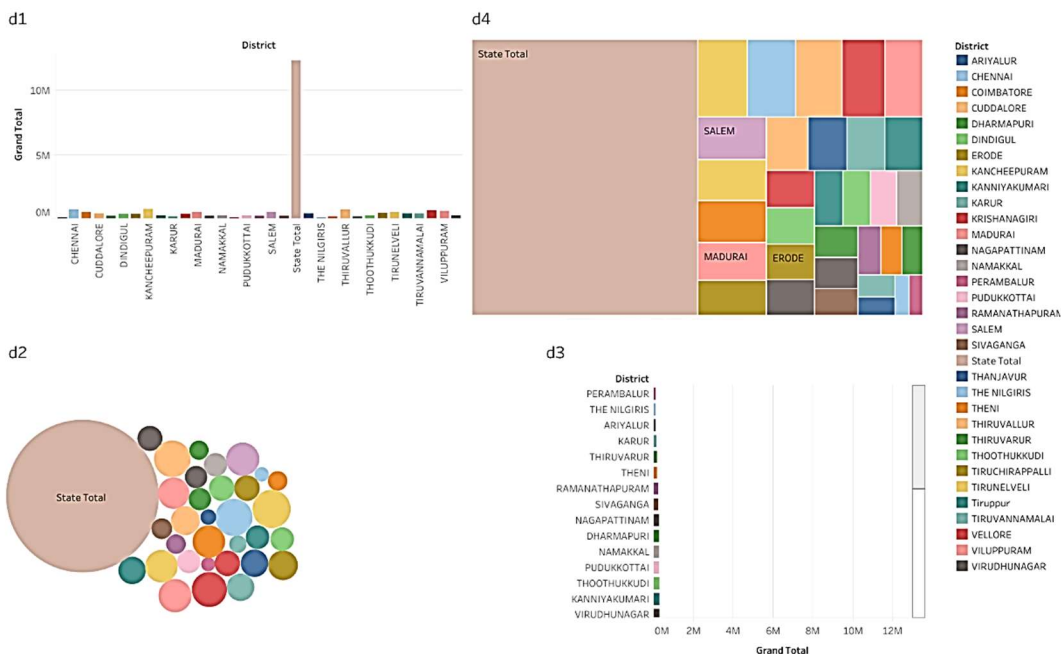
District

average

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Data Source average %measure d1 d2 d3 d4 d1.d2.d3.d4 geographical.rate Lrate max.rate Dashboard 3 Story 1 percentage.district

DASHBOARD -EXPORTED IMAGE:



DASHBOARD -EXPORTED CROSTAB-EXCEL:

Download Crosstab

Select a sheet from this dashboard

d1 d2 d3 d4

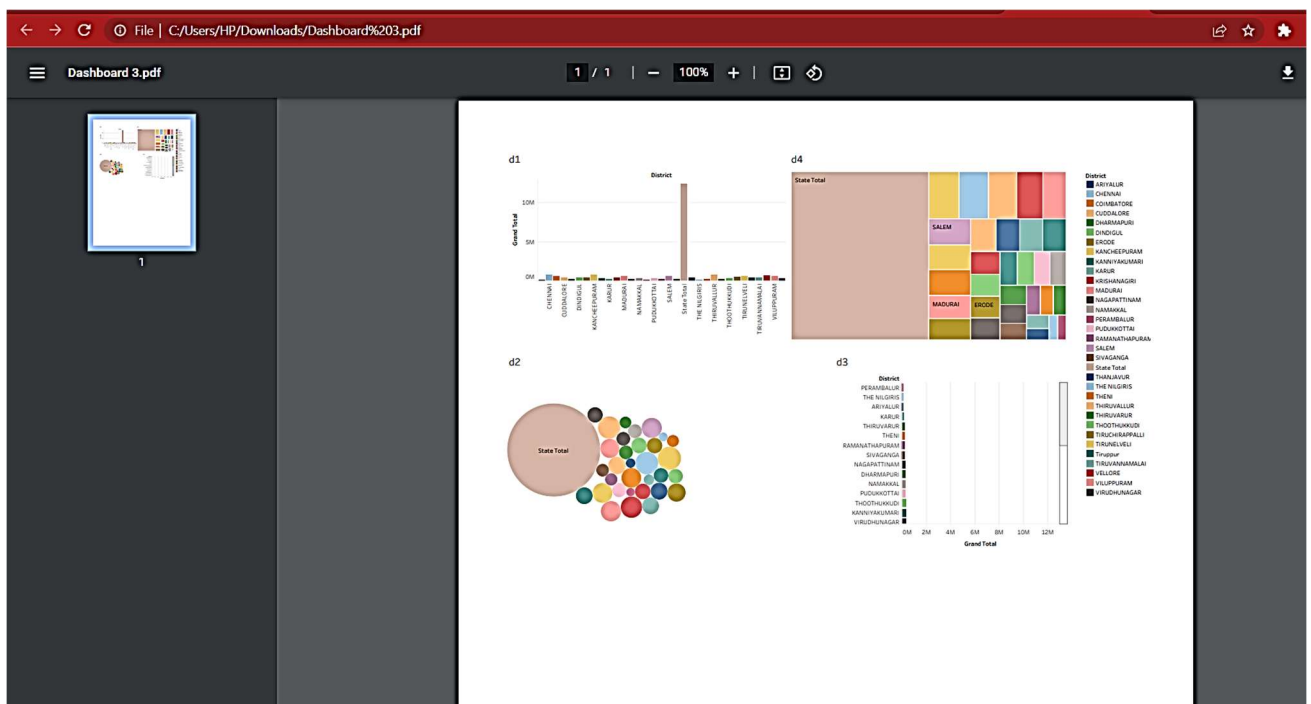
Select Format

☒ Excel ☐ CSV

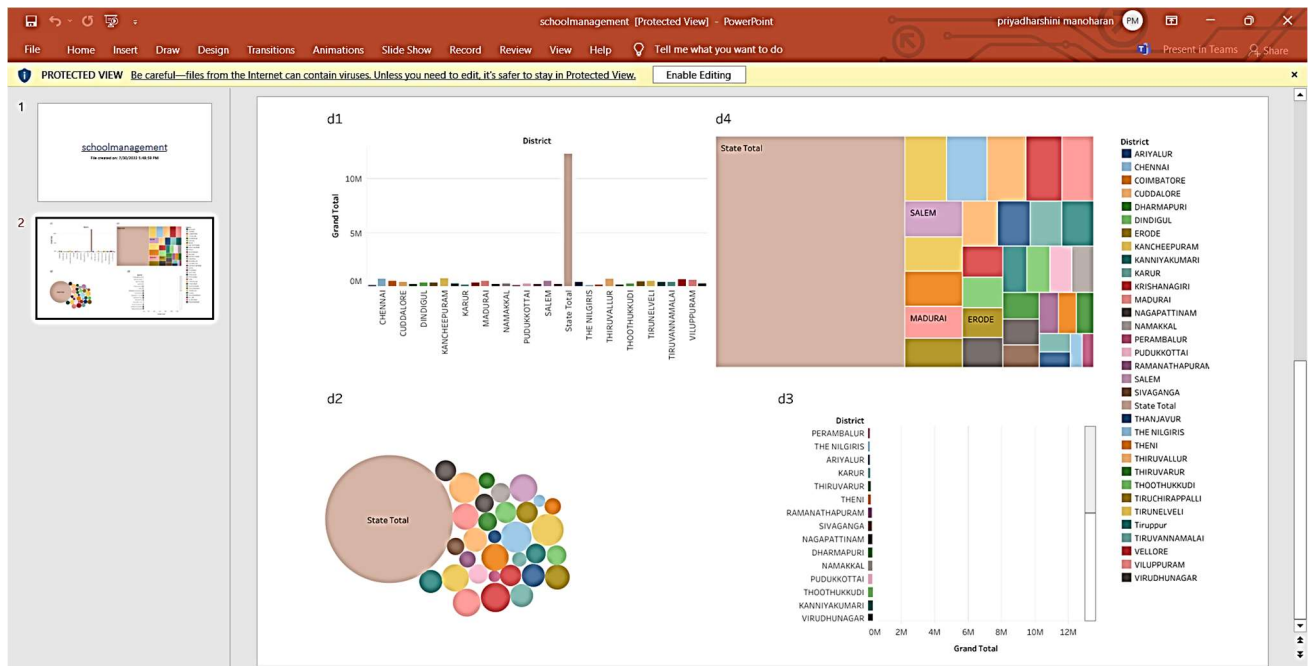
Download

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do																											
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing																											
District																											
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W					
1	District																										
2	ARIYALUR	130699																									
3	CHENNAI	740153																									
4	COIMBATORE	564390																									
5	CUDDALORE	449088																									
6	DHARMAPUR	272932																									
7	DINDIGUL	348653																									
8	ERODE	343043																									
9	KANCHEEPURAM	777871																									
10	KANNIYAKUM	309802																									
11	KARUR	165573																									
12	KRISHNAGIRI	349561																									
13	MADURAI	528619																									
14	NAGAPATTINAM	268712																									
15	NAMAKKAL	280880																									
16	PERAMBALUR	106484																									
17	PUDUKKOTTAI	293214																									
18	RAMANATHAPURAM	220809																									
19	SALEM	582476																									
20	SIVAGANGA	230786																									
21	State Total	12331525																									
22	THANJAVUR	407164																									
23	THE NILGIRIS	113966																									
24	THENI	206330																									
25	THIRUVALLUR	717205																									
26	THIRUVARUR	197516																									
27	THOOTHUKUDU	300987																									
28	TIRUCHIRAPPALLI	471745																									
29	TIRUNELVELI	564656																									
30	Tiruppur	403222																									
31	TIRUVANMIYUR	405543																									
32	VELLORE	653338																									

DASHBOARD-EXPORTED PDF:



DASHBOARD- EXPORTED POWERPOINT:



PUBLISHED LINK:

<https://public.tableau.com/authoring/schoolmanagement/average#1>

OBSERVATIONS MADE:

Thus, we have exported all the sheets to all the formats possible from tableau and analysed it.

CONCLUSION:

Thus, we have successfully completed the given questions and analysed the data set: enrollment_schoolmanagement by using data visualization tool in tableau.