

## INTRODUCTION:

### Overview:

Water and sanitization is about waterbodies. In this it shows the number of waterbodies present in the Municipal and corporation areas in Tamilnadu. So I have downloaded the csv file of water bodies under Corporation/Municipal and other areas in Tamilnadu. In csv file it contains the details like no. of ponds in the regions and etc. we can get the information about no. of ponds, tanks, ooranis and other waterbodies in different regions under Municipal and corporation from the excel sheet. Then I have linked the Excel sheet to the Tableau Software and created the different worksheets.

### Purpose:

I created the worksheets by using the excel file information and it gives the graphical representation with the help of the Tableau Software. With the help of those graphs we will know the relations between the regions and the no. of waterbodies. And I created the dashboard. The dashboard is the combination of the different worksheets. In the dashboard the worksheets are interlinked if we make changes in one sheet then it automatically changes in other worksheet. Then later I created the story by keeping all the worksheets together. The main agenda is to represent the given excel sheet information in the graphical representation for the easy understanding.

## LITERATURE SURVEY:

### Existing Problem:

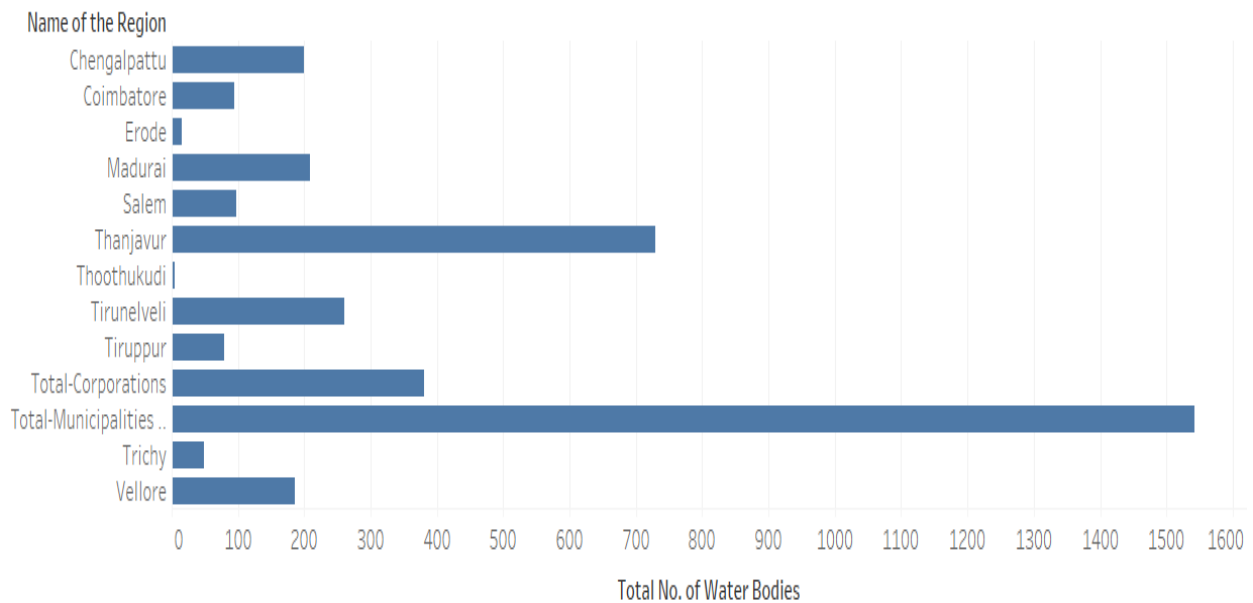
The main problem is in the dataset. One cannot understand the raw data present in the dataset by looking at it.

Type	Name of the No. of Ponds	No. of Tanks	No. of Ooranis	Total No. of Water Bodies
Corporation	8	23	0	31
Corporation	8	4	0	12
Corporation	13	0	0	13
Corporation	2	3	0	5
Corporation	30	0	1	31
Corporation	64	0	1	65
Corporation	15	39	22	76
Corporation	45	6	26	77
Corporation	11	20	1	32
Corporation	196	95	51	342
Municipal	3	8	0	11
Municipal	95	37	6	138
Municipal	60	91	39	190
Municipal	547	117	7	671
Municipal	34	15	81	130
Municipal	40	41	3	84
Municipal	94	89	1	184
Municipal	873	398	137	1408

### Proposed solution:

The solution is to link the excel sheet to tableau software and to represent the rawdata into the pictorial representation. We create the worksheets ,dashboards and story for the easy understanding of the data and their relationships for the user.

### Total no.of water bodies in region



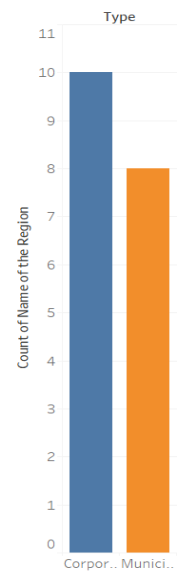
### THEORITICAL ANALYSIS:

#### Software Requirements of the Project:

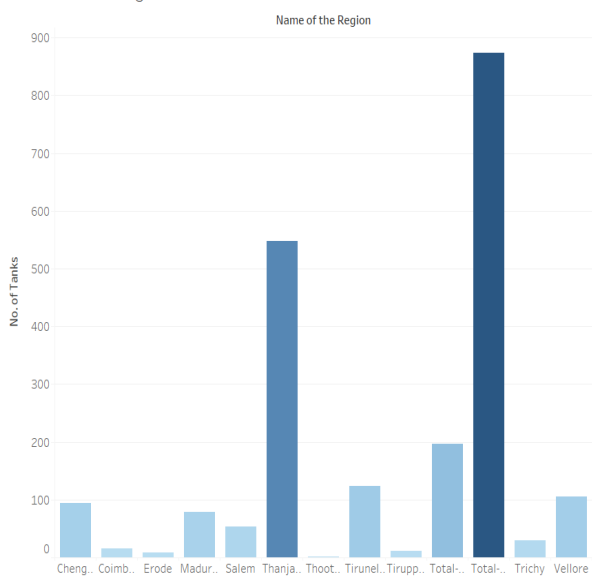
- 1.TABLEAU DESKTOP
- 2.MICROSOFT EXCEL

Result:

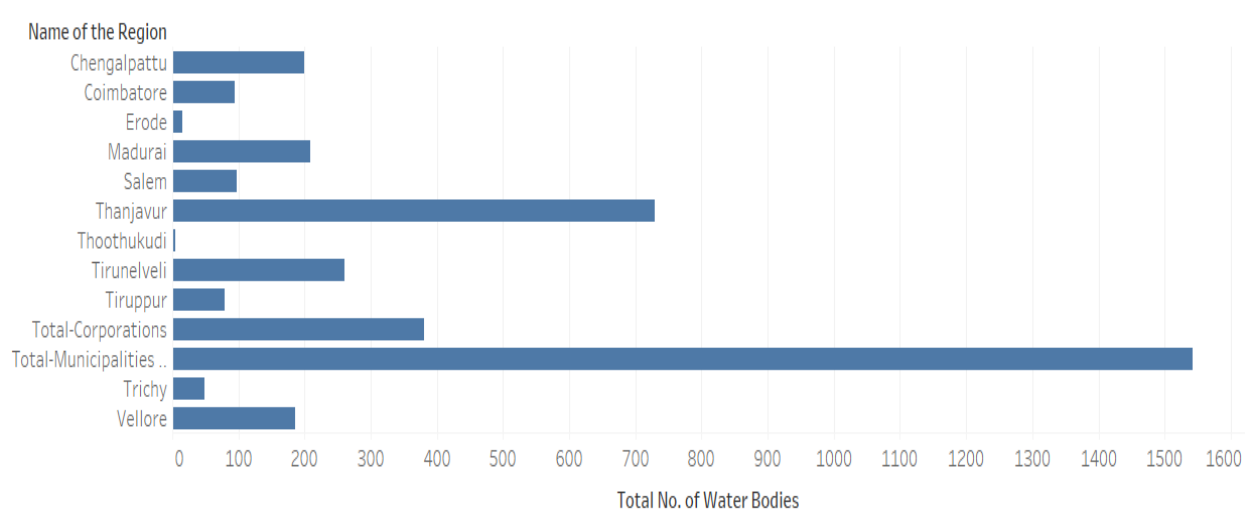
No.of regions in Corporation and Municipality



No.of tanks in region

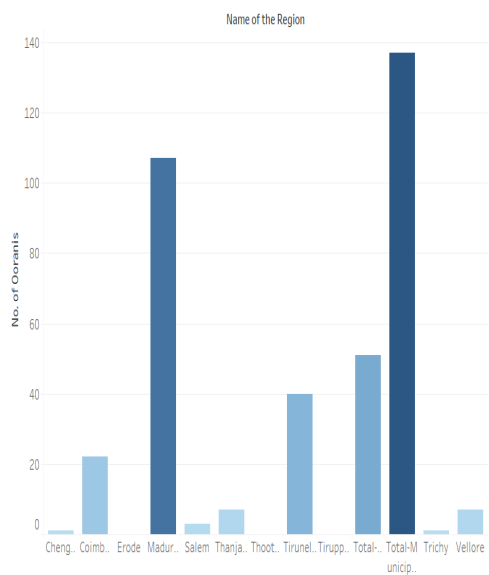


Total no.of water bodies in region

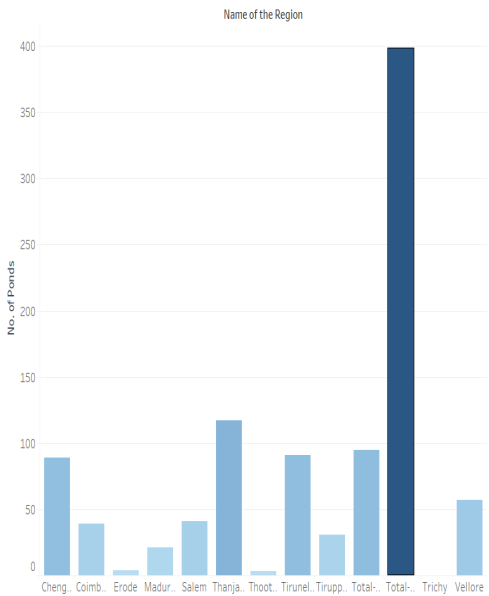


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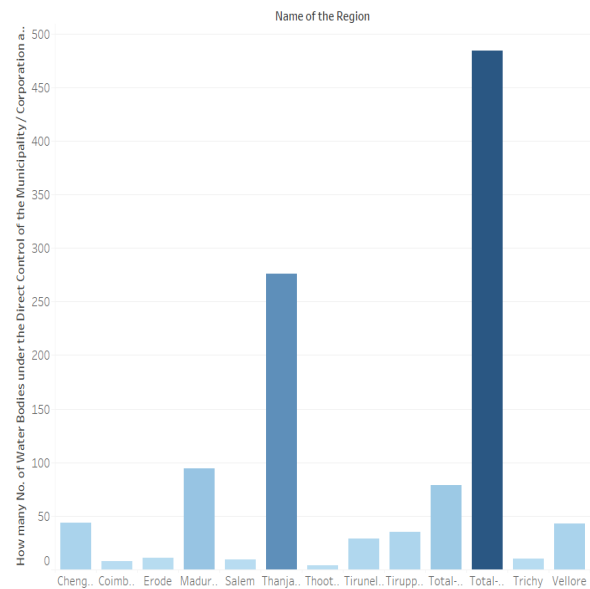
No.of Ooranis in region



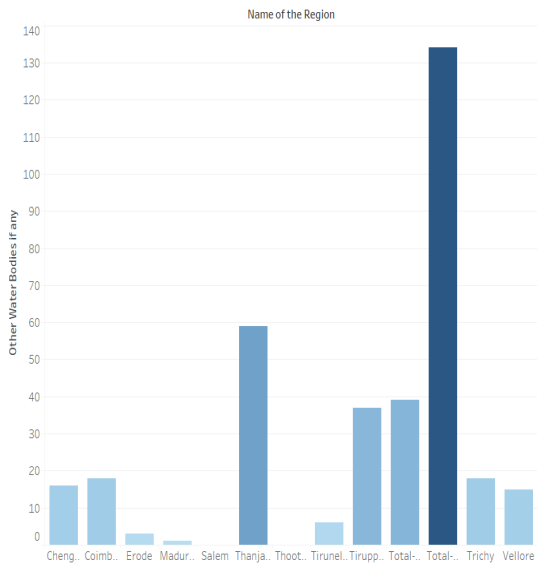
No.of Ponds in region



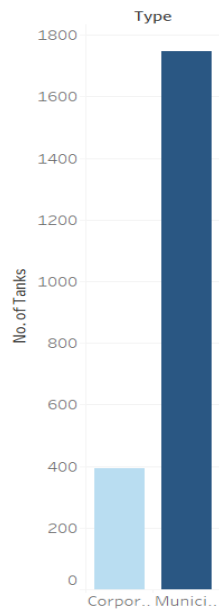
No.of water bodies under survey records



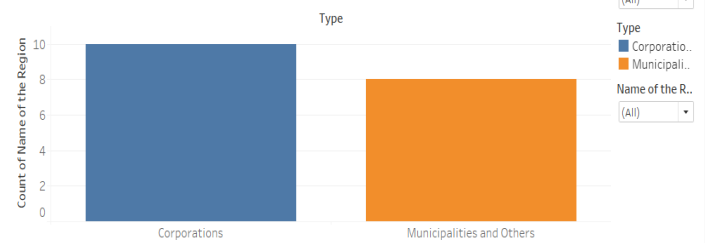
Other water bodies in region



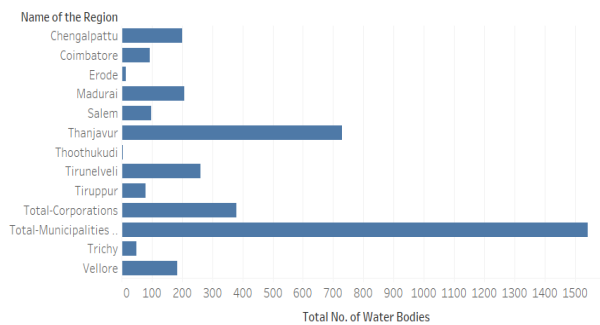
No. of tanks in types



No. of regions in Corporation and Municipality



Total no. of water bodies in region



## DASHBOARD

### ADVANTAGES:

1. Tableau uses the drag-and-drop interface.
2. The "show me" menu allows you to build out graphs with a click of button.
3. It shows the pictorial representation of the raw data for the easy understanding of the user.
4. Tableau makes items easy to find when buliding these dashboard and story.
5. Here in our project the no. of waterbodies present in the municipal and corporation areas makes easy to find by seeing the dashboard.
6. In this we have filters to show the data present in the graph easily.

### DISADVANTAGES:

1. Tableau cannot store variables.
2. It is not good for complex calculations or advanced statistics.
3. Breaks with too much data.

### APPLICATION:

1. Data Visualization.
2. Business Intelligence.
3. Real-time data analysis.

- 4.To import large size of data.
- 5.Data collaboration.

## **CONCLUSION:**

### **To Summarize:**

- 1.There are more number of regions under the corporation.
- 2.The highest no.of tanks are in the municipalities like Thanjavur and Thirunelveli.
- 3.There are more number of ponds in Chengalpattu,Thanjavur and Thirunelveli.
- 4.More no.of Ooranis are present in Madurai and Thirunelveli.
- 5.Thanjavur contains highest no.of waterbodies.
- 6.Secondly, the no.of waterbodies are highly available at Thirunelveli,Madurai,Chengalpattu.
- 7.Other water bodies are highly present at Thanjavur and Thiruppur.
- 8.Based on the survey records Thanjavur and Madurai are having more no.of water bodies under direct control of corporation and municipalities.
- 9.There are more no.of tanks in municipalities and others.

## **FUTURE SCOPE:**

Enhancements can be done in the future if there are any new water bodies built in the regions.

## **BIBLIOGRAPHY:**

### **References:**

- From the Tableau Data Viz Challenge Bootcamp by "SmartBridge".
- Tableau E-learning platform