Tableau

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What is tableau ?

- Tableau is an easy to use business intelligence software.
- It makes data visualization, data analytics, and reporting as easy as dragging and dropping.
- It is easy to learn.
- Anyone can learn to use Tableau without having a prior programming experience.
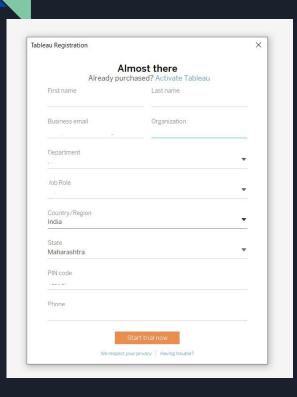- Tableau can combine data from various data sources such as spreadsheets, databases, cloud data.

Why tableau ?

- Every organization needs to analyze their data for optimal decision making.
- Analyzing data has never been easier with traditional business intelligence tools.
- Tableau is very easy to learn. Even with no prior programming experience.
- It provides on various types of databases.
- It has interactive dashboard.
- Tableau is comparatively affordable.

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How to install Tableau ?

1. Go to https://www.tableau.com/academic/students, and register there (You will get a product key through mail).
2. Now, download tableau for desktop (download link will also be in mail).
3. Double Click on the setup file and click next.
4. Install tableau using the product key that you received through mail.
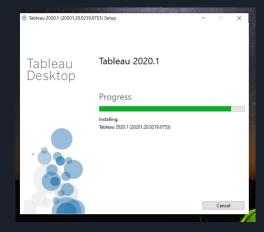5. Congratulations ! You have installed tableau.

Installation step 1 -

- Go to https://www.tableau.com/academic/students, and register there (You will get a product key through mail).
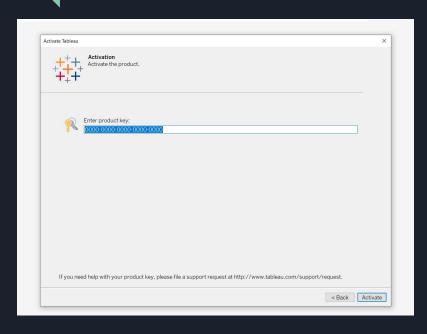
Installation step 2 and 3 -

- Now, download tableau for desktop (download link will also be in mail).

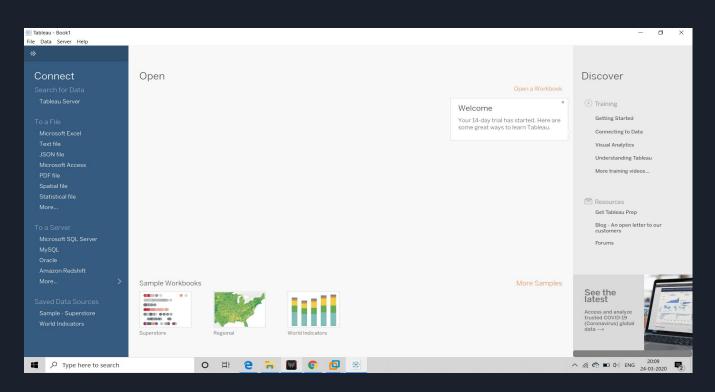- Double Click on the setup file and click next.

Installation step 4 -

- Install tableau using the product key that you received through mail.

Installation step 5 -

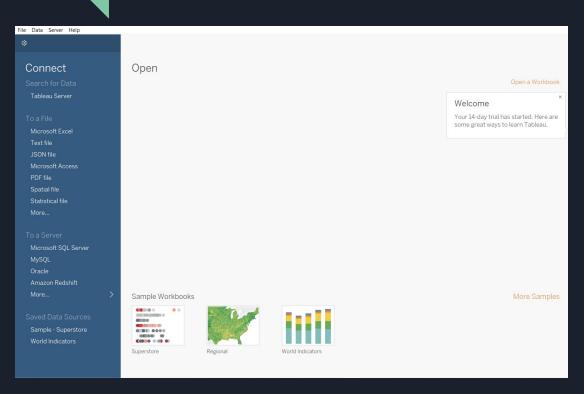● Congratulations ! You have installed tableau.
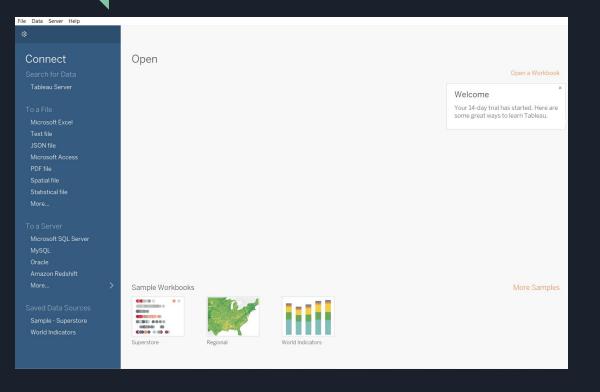
Connecting to your data in Tableau -

1. Connecting to local Data -
    1.1. Excel
    1.2. Text File
    1.3. Database Files
2. Connecting to server (Live Data) -
    2.1. Tableau server
    2.2. MySQL
    2.3. Hadoop
    2.4. Hive
    2.5. Oracle
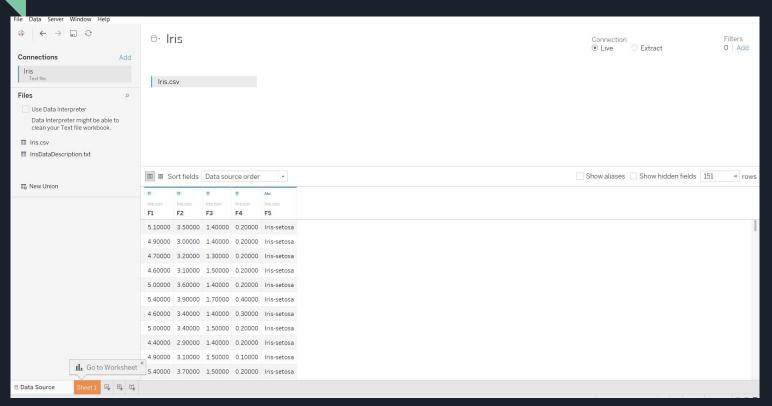   2.6. PostgreSQL
    2.7. SAP

Connecting to local data -

1. On the left hand side panel, in the "Local" section, select the type of file you want to import.

2. Now, browse the location of local database, select it and click "open".
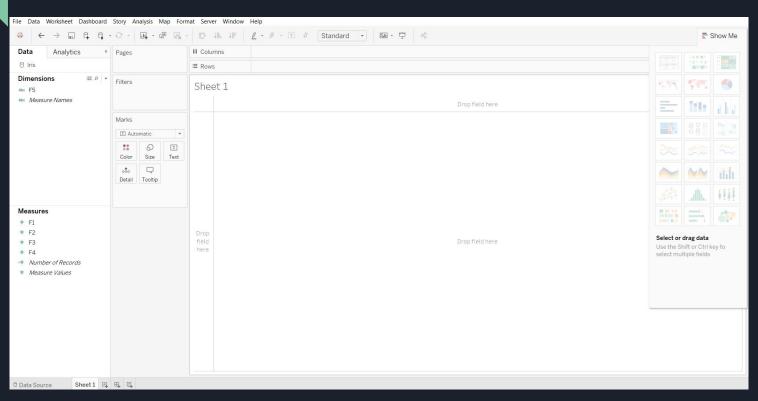
Connecting to Live data -

- On the left hand side panel, in the "SERVER" section, select the type of configuration you want to connect to.
- Now, tableau will ask for authentication for the server.
- Complete the authentication step to connect to server.

After connecting to database you will come to homepage -

Start visualizing by clicking on "Sheet 1" at bottom

Creating charts -

- Now comes the fun part !
- You will have your attributes from your database on the left hand dashboard.
- And you can select type of graph from right hand side dashboard.
- Just drag your attributes from left and select type of graph from right.
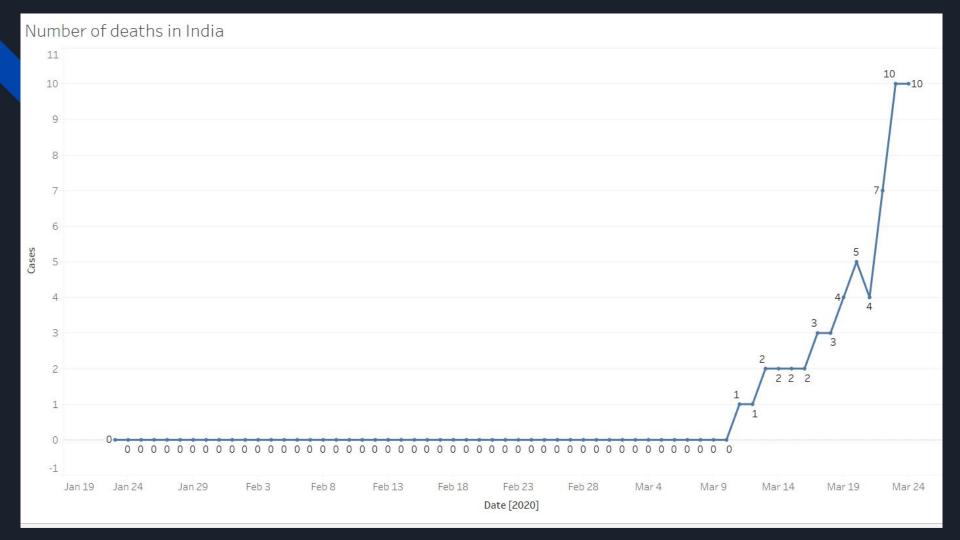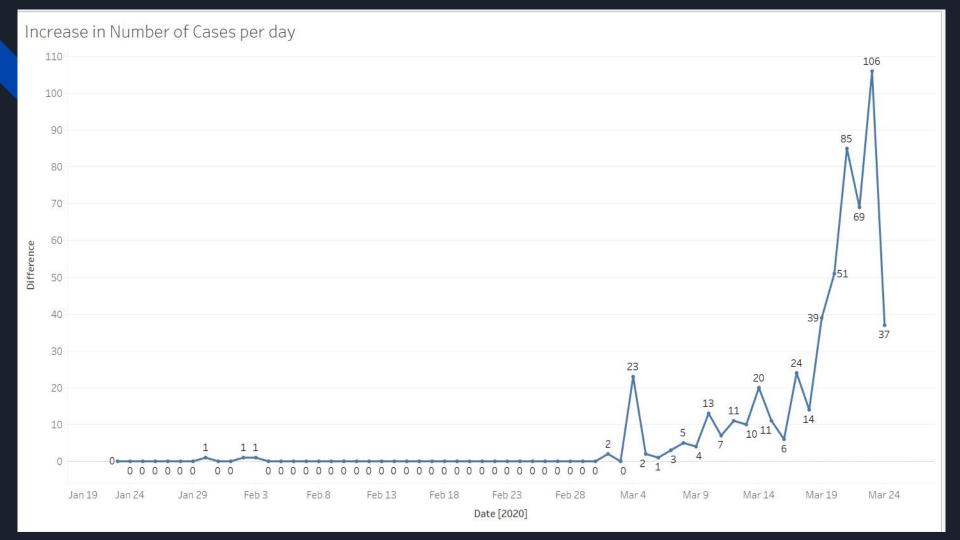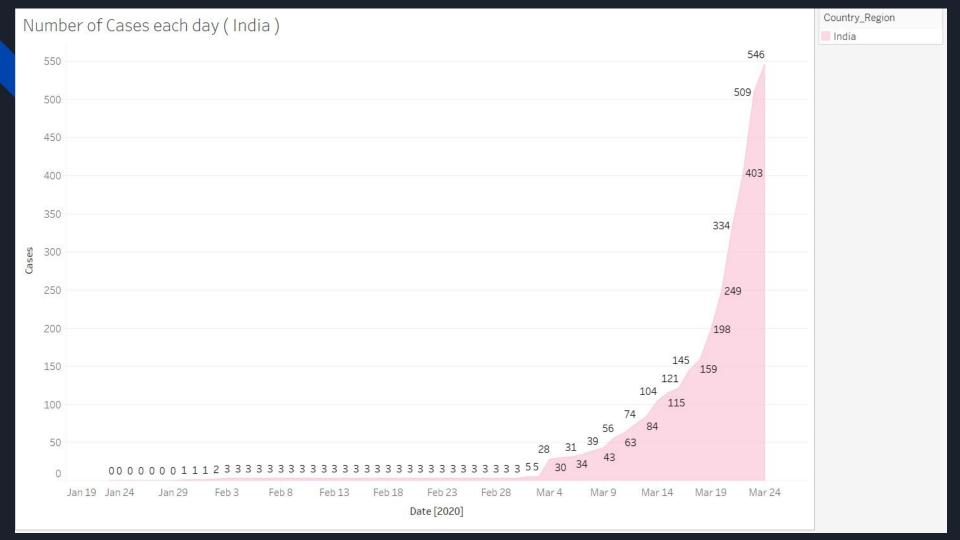- Enjoy ...! Create your own Visualizations !

Creating Dashboards -

- After you are done with your charts, you can show them at one place using Dashboards.
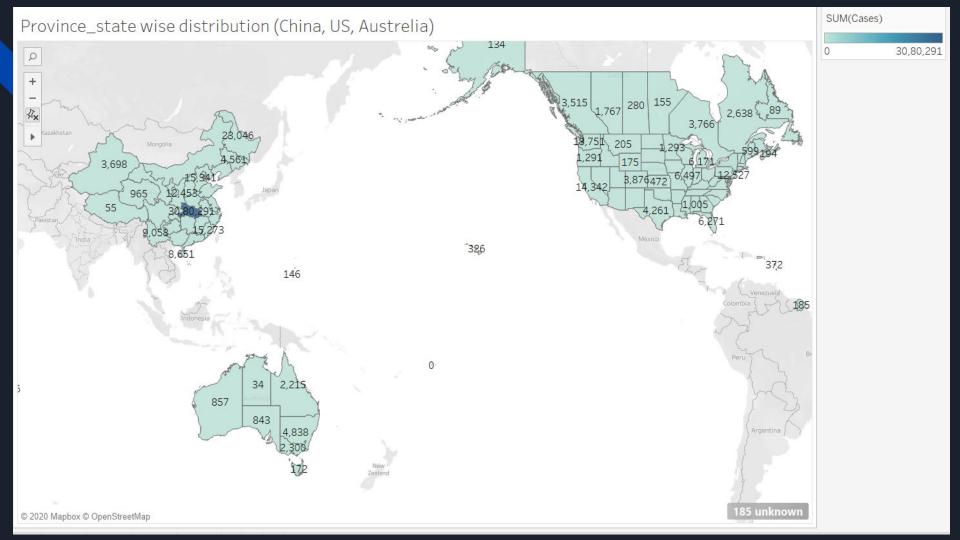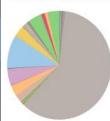
Example - COVID-19 live statistic visualization

Number of deaths in India

Increase in Number of Cases per day

Number of Cases each day (India)

Total Number of Deaths

SUM(Cases)

0   1,22,685

Country_Region: **Oman**
Cases: **0**

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2 unknown

Province_state wise distribution (China, US, Austrelia)

SUM(Cases)

0 — 30,80,291

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185 unknown

Total Confirmed Cases

Number of cases per week
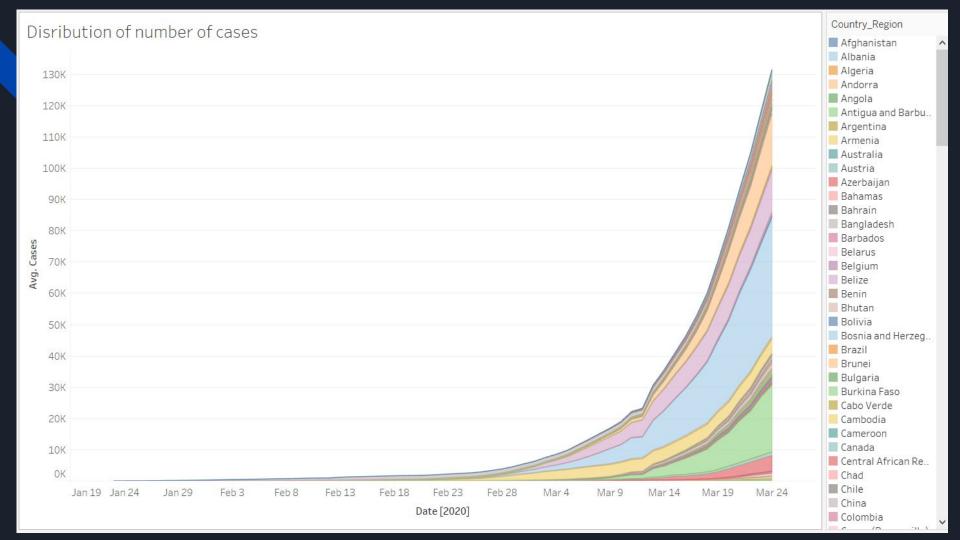
					Date				
Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
3,115	48,033	1,94,503	3,77,928	5,41,568	5,92,141	6,94,668	9,29,662	16,44,335	11,83,662

SUM(Cases)

3,115   16,44,335

Disribution of number of cases

Advantages -

1. Remarkable Visualization Capabilities
2. Ease of Use and easy to learn
3. Apart from its high visualization functionality, users rate its overall performance as robust and reliable
4. Multiple Data Source Connections
5. Thriving Community and Forum
6. Mobile-Friendliness

Disadvantages -

1. High Cost
2. Inflexible Pricing
3. Poor After-Sales Support
4. Security Issues
5. Poor BI Capabilities
6. Poor Versioning
7. Time- and Resource-Intensive Staff Training

Thank You !