

Sugarcane Production Analysis

Define Problem/Problem Understanding

Define Problem Statement: Visualising Sugarcane Production Analysis

Business Requirements : This project is useful from the perspective of countries who have highly fertile soil which is suitable for producing sugarcane. There are many countries in the South America region and the Asia region which have high production of sugarcane. This project is useful for business owners who want to establish mills for sugar production. The ultimate goal is to gain insights and improve performance through data visualization techniques.

Literature Survey : A literature survey for the depression analysis would involve researching and reviewing previous studies, articles, and reports on the topic. This could include information on the methods and techniques used for sugarcane production, as well as the results and conclusions of these studies. Some potential areas of focus for a literature survey on depression analysis could include: Risk management, which involves identifying, assessing, and mitigating the various risks facing a country, such as defense risk, market risk, and operational risk. The reasons that affect the production of sugarcane.

Social/Business Impact : Social Impact: This project throws light on the regions which have high production of sugarcane. The factors which can influence the production and yield of sugarcane. Business Model/Impact: The business impact of this project is to the countries that are cultivating sugarcane on a large scale. This can improve the potential of the countries with high yield to attract the investors.

Data Collection and Extraction from Database

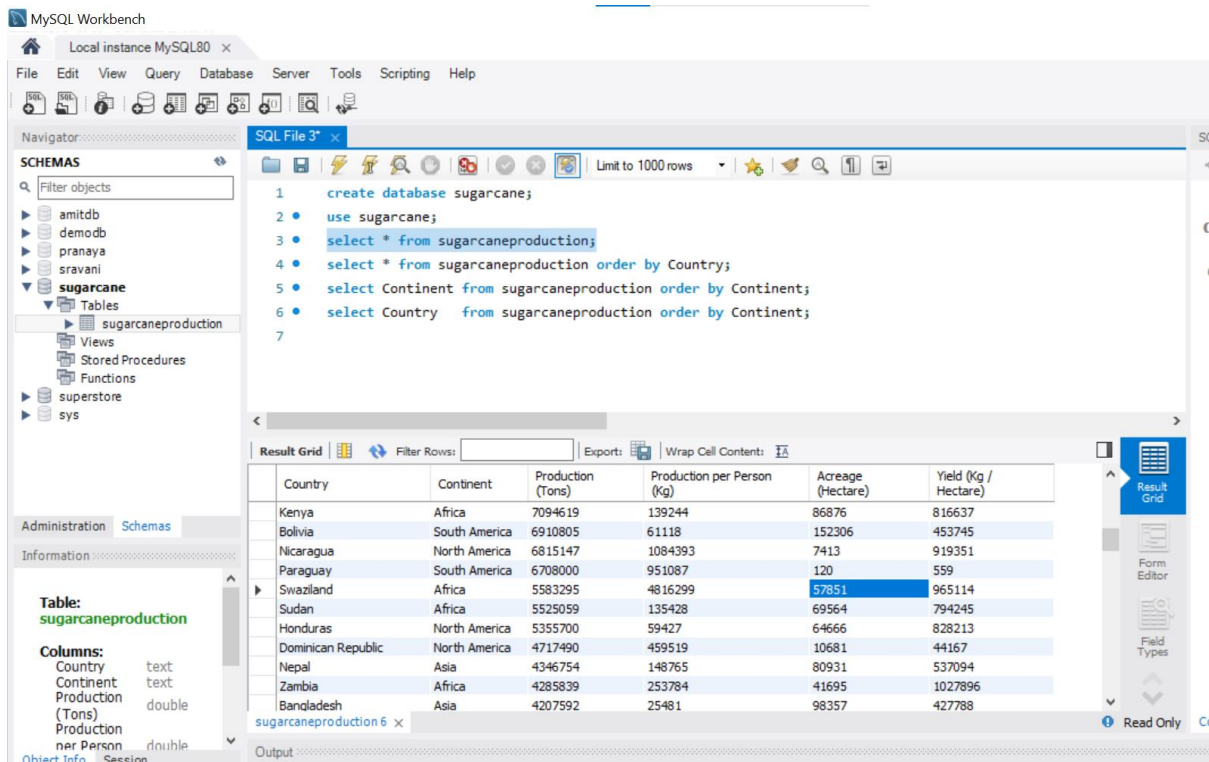
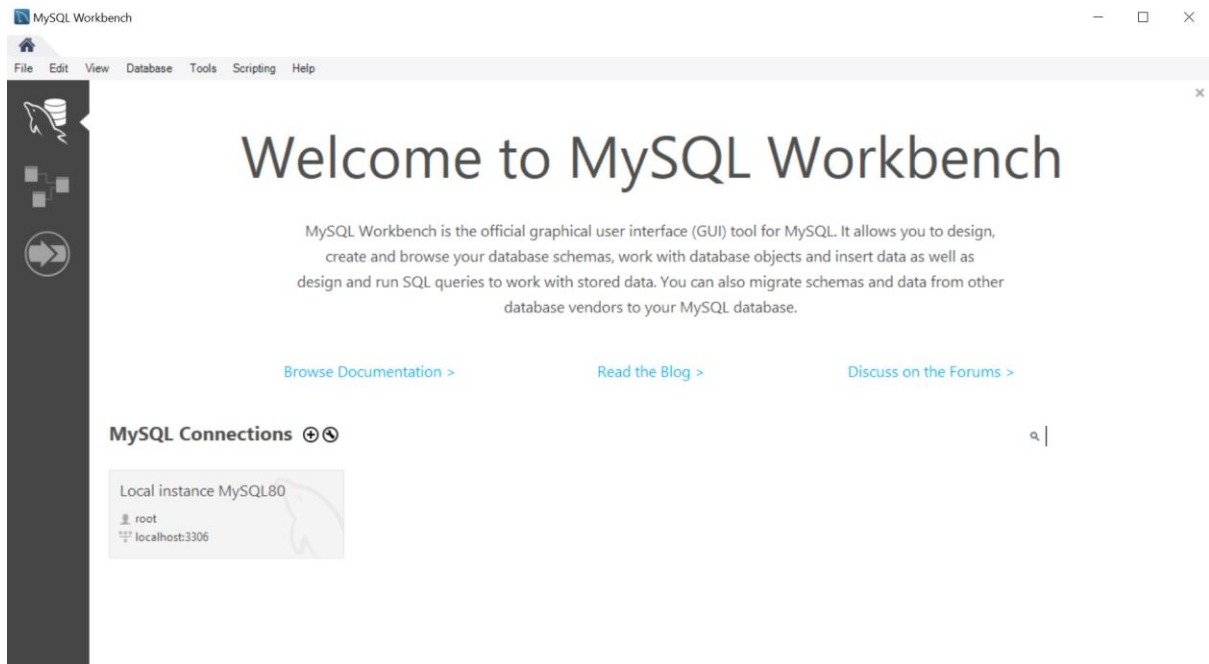
Data Collection : sugarcane.csv dataset is downloaded for making visualizations

Column Description of the Dataset:

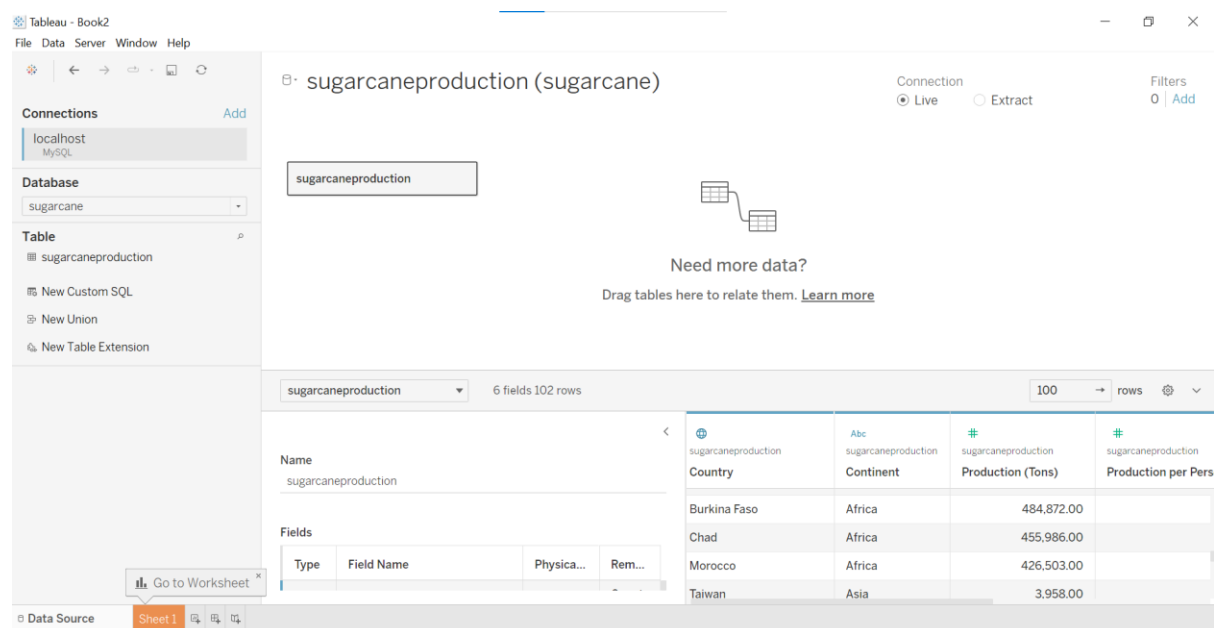
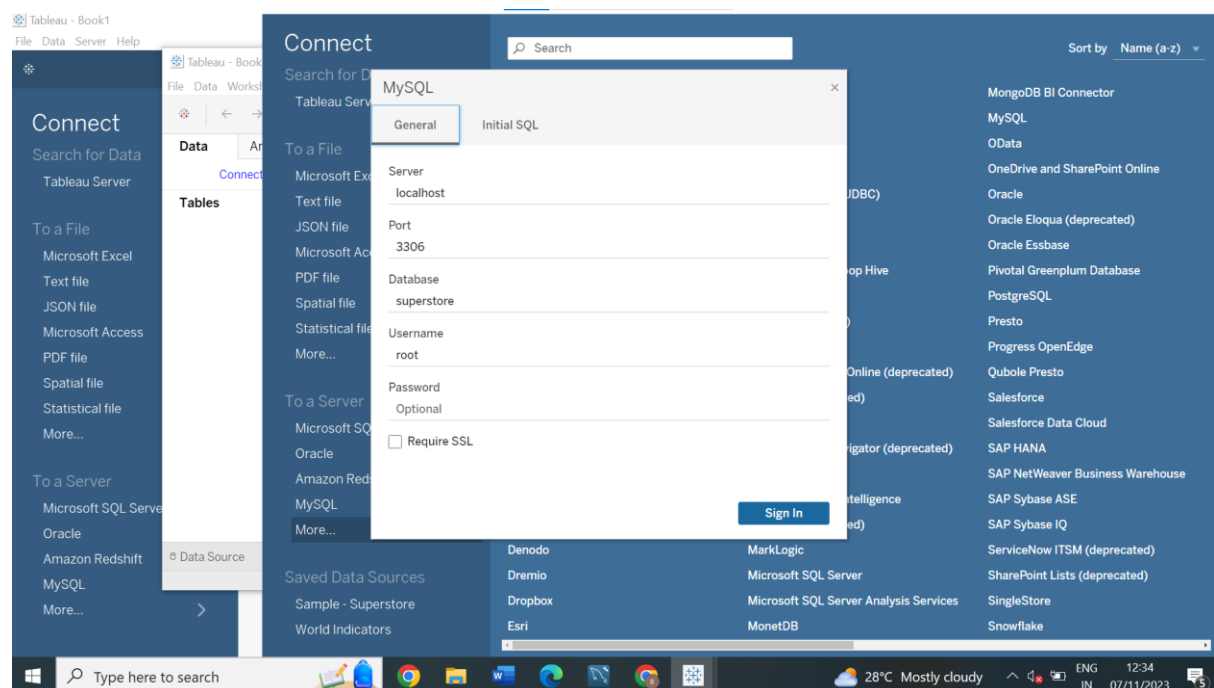
1. Continent: Name of the Continent
2. Country: Country Name
3. Production: Production of sugarcane in tons.

4. Production per person: Production per person in tons
5. Acreage: Area for sugarcane cultivation in hectares
6. Yield: The production per area of land (kg / hectare)

Storing Data in DB and Perform SQL Operations:



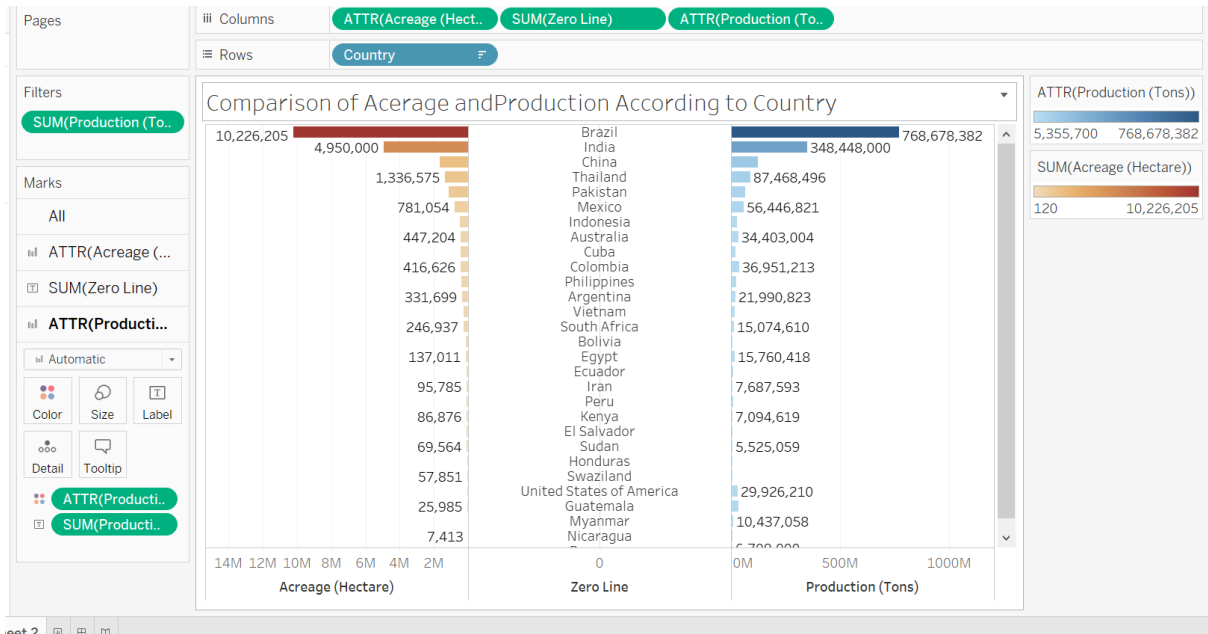
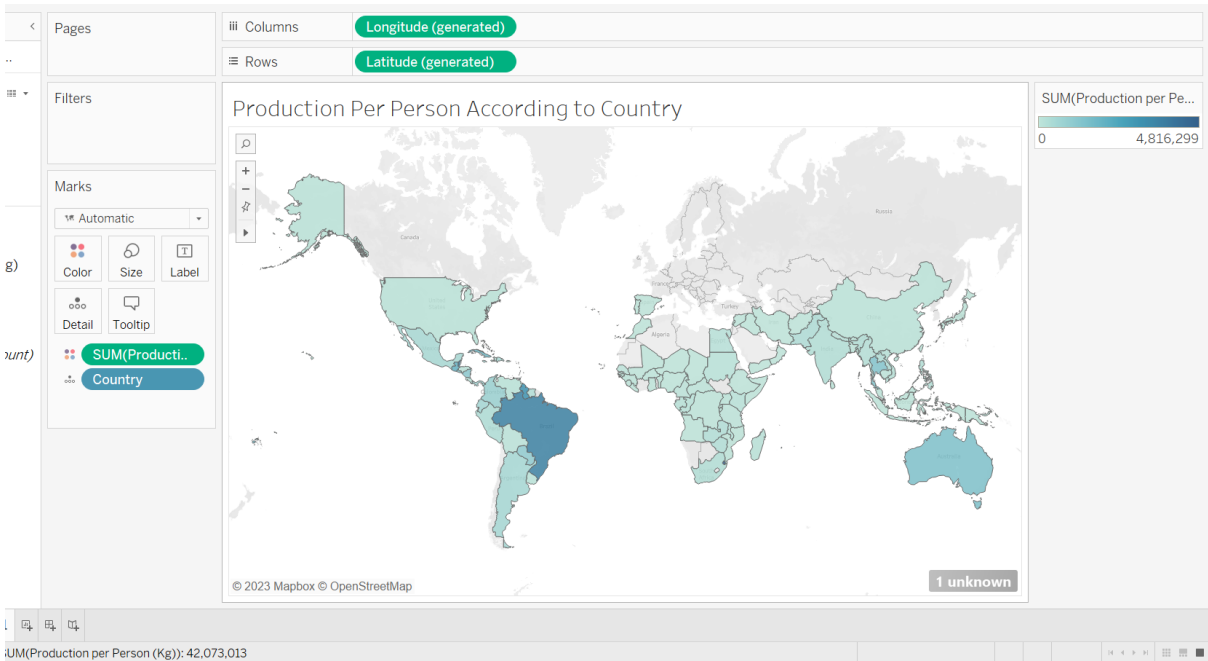
Connect DB with Tableau:

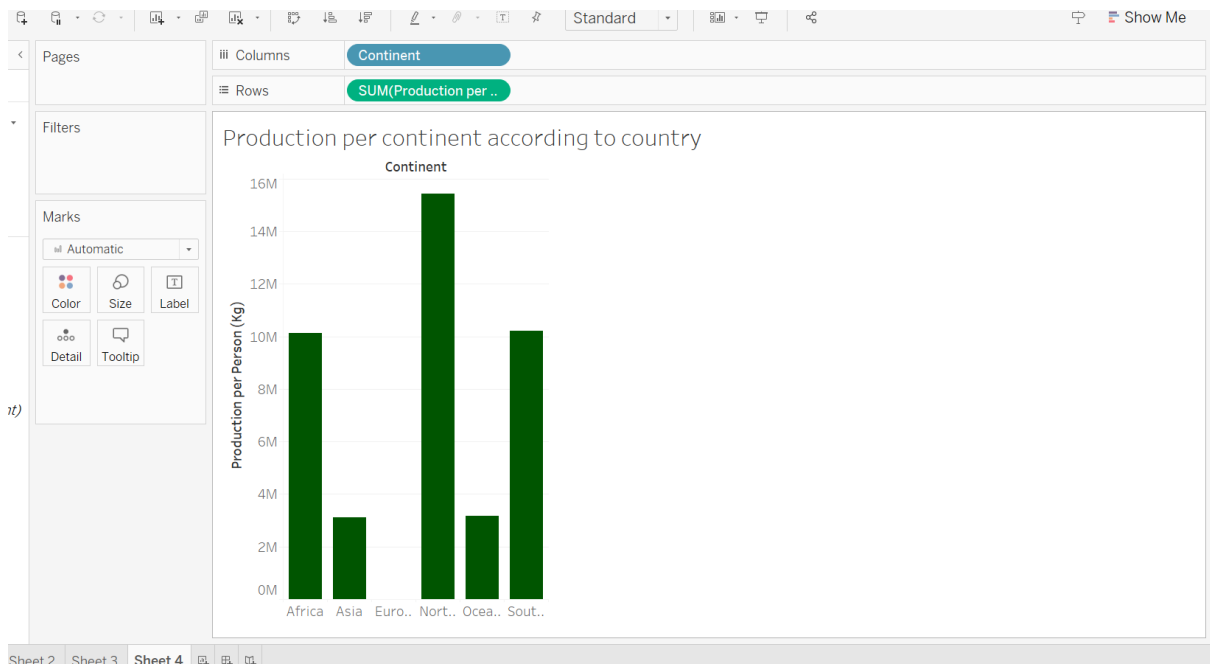
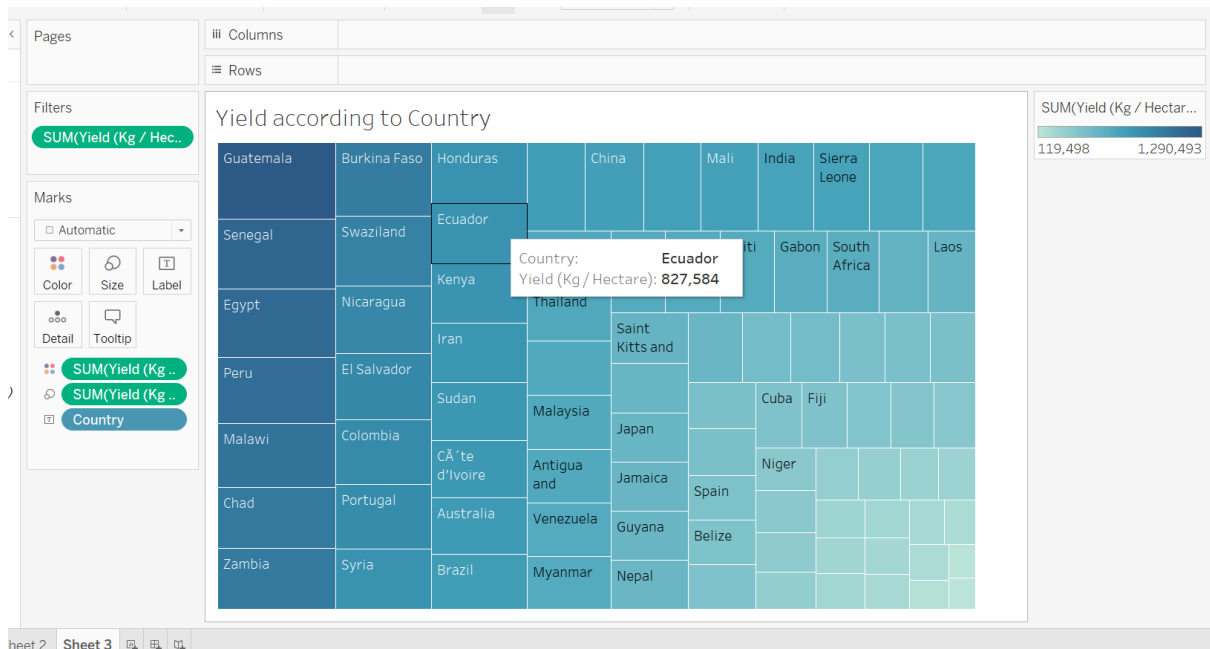


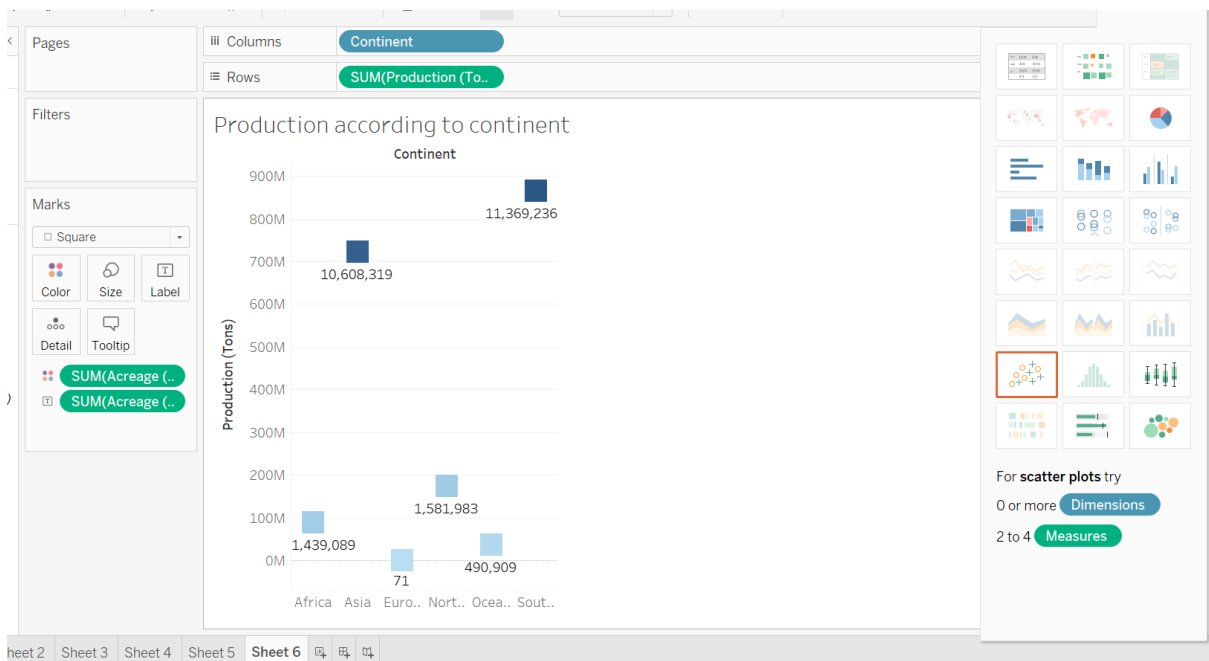
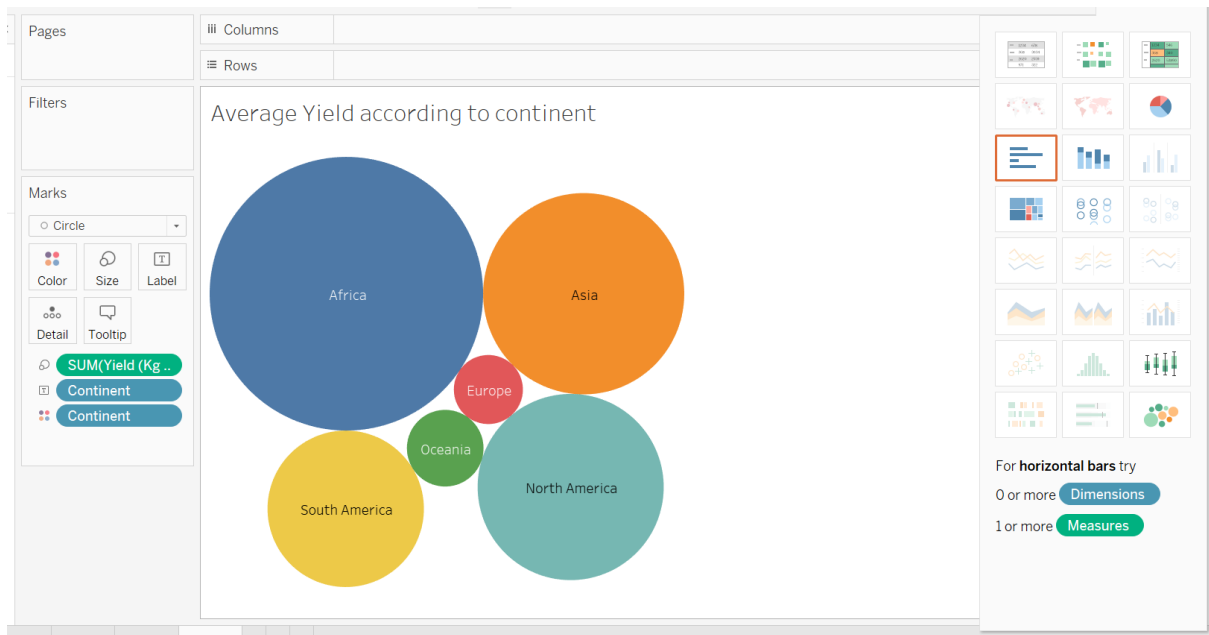
Data Preparation :

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency

Data Visualization :



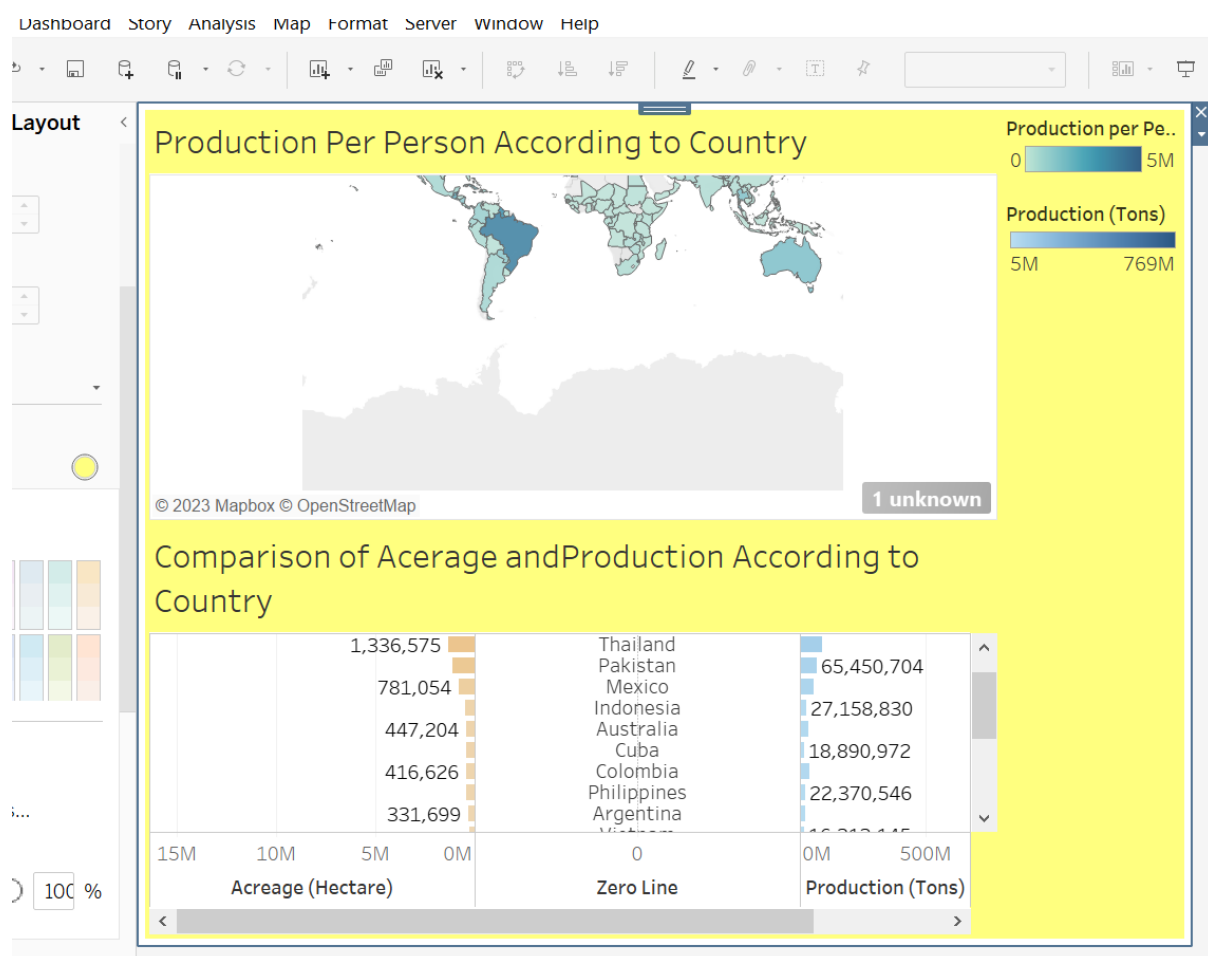


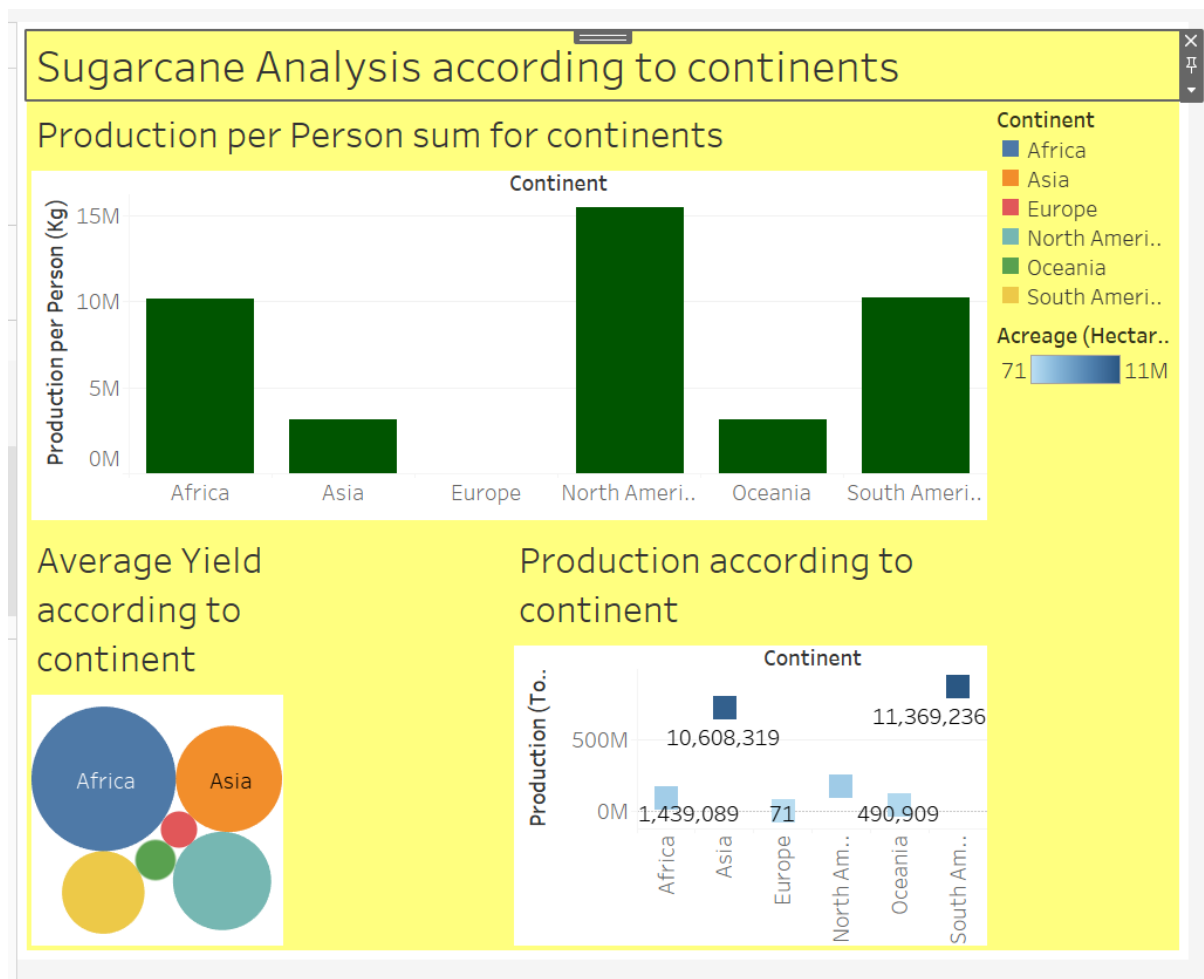


Dashboard :

A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, healthcare, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables.

Responsive and Design of Dashboard:





Story :

A data story is a way of presenting data and analysis in a narrative format, intending to make the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis logically and systematically, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos.

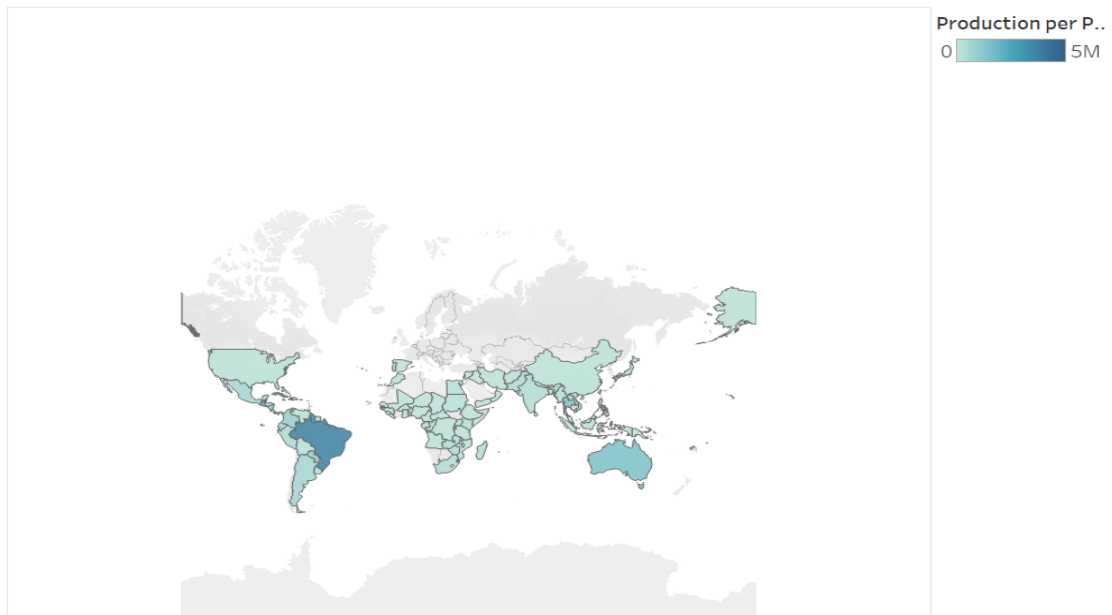
No of Scenes of Story :

The number of scenes in a storyboard for a data visualization analysis of the performance of banks will depend on the complexity of the analysis and the specific insights that are trying to be conveyed. A storyboard is a visual representation of the data analysis process and it breaks down the analysis into a series of steps or scenes.

Sugarcane Production Analysis

The following visualization shows the production per person according to each country. Brazil and India have high production per each person

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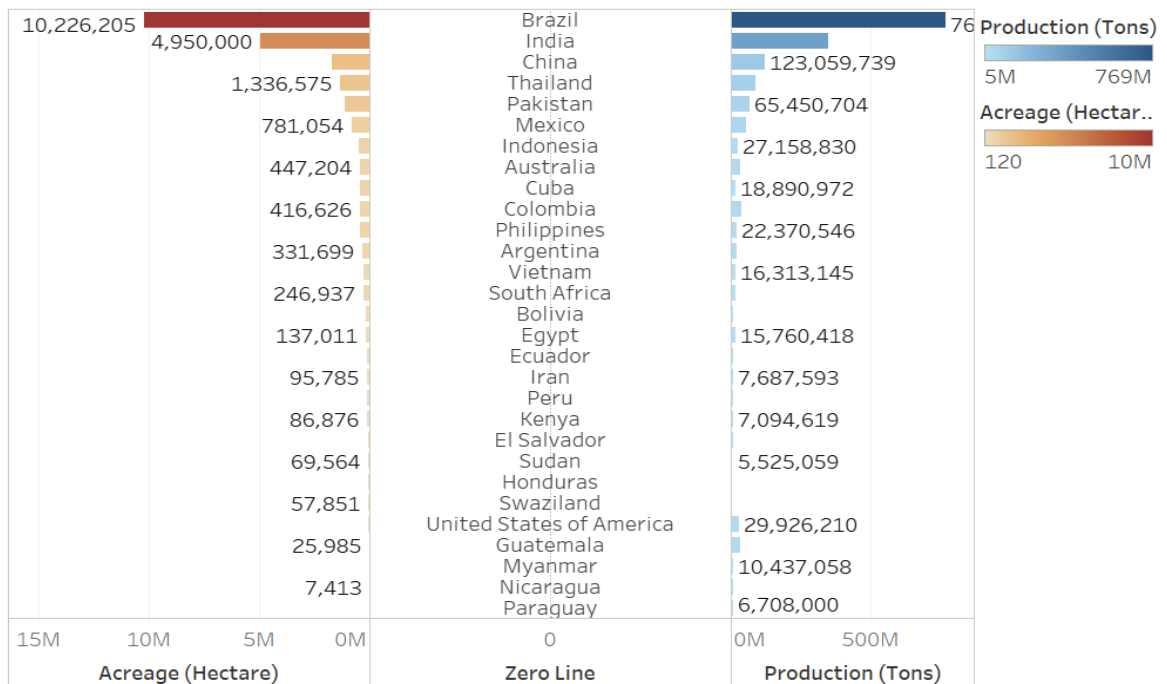


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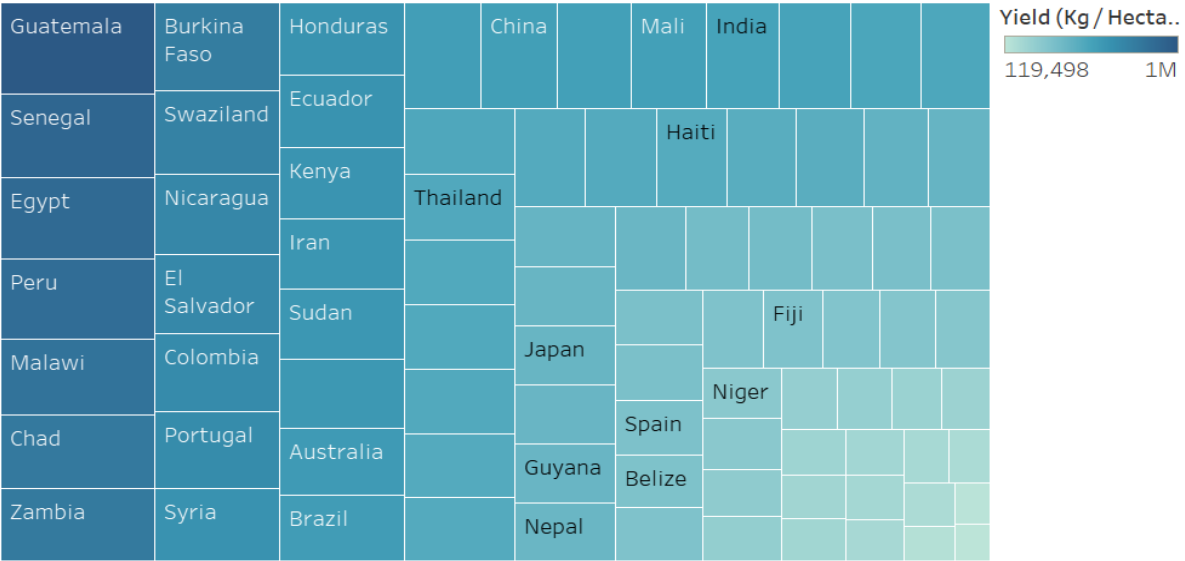
The following visualization shows a butterfly chart for the area available for sugarcane cultivation and the production for the top sugarcane

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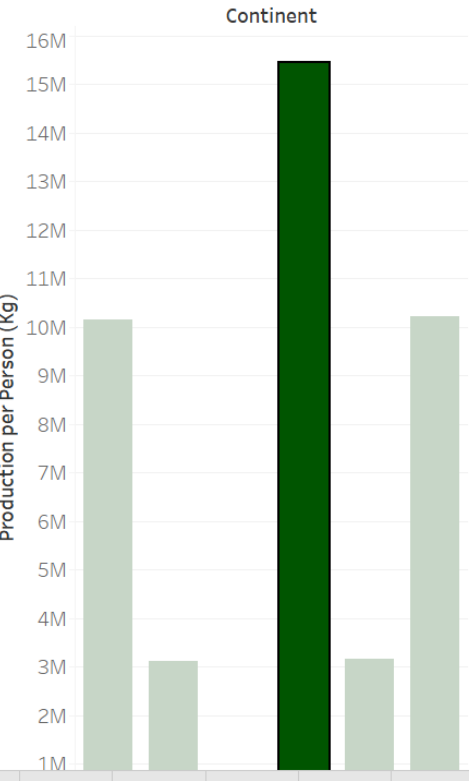


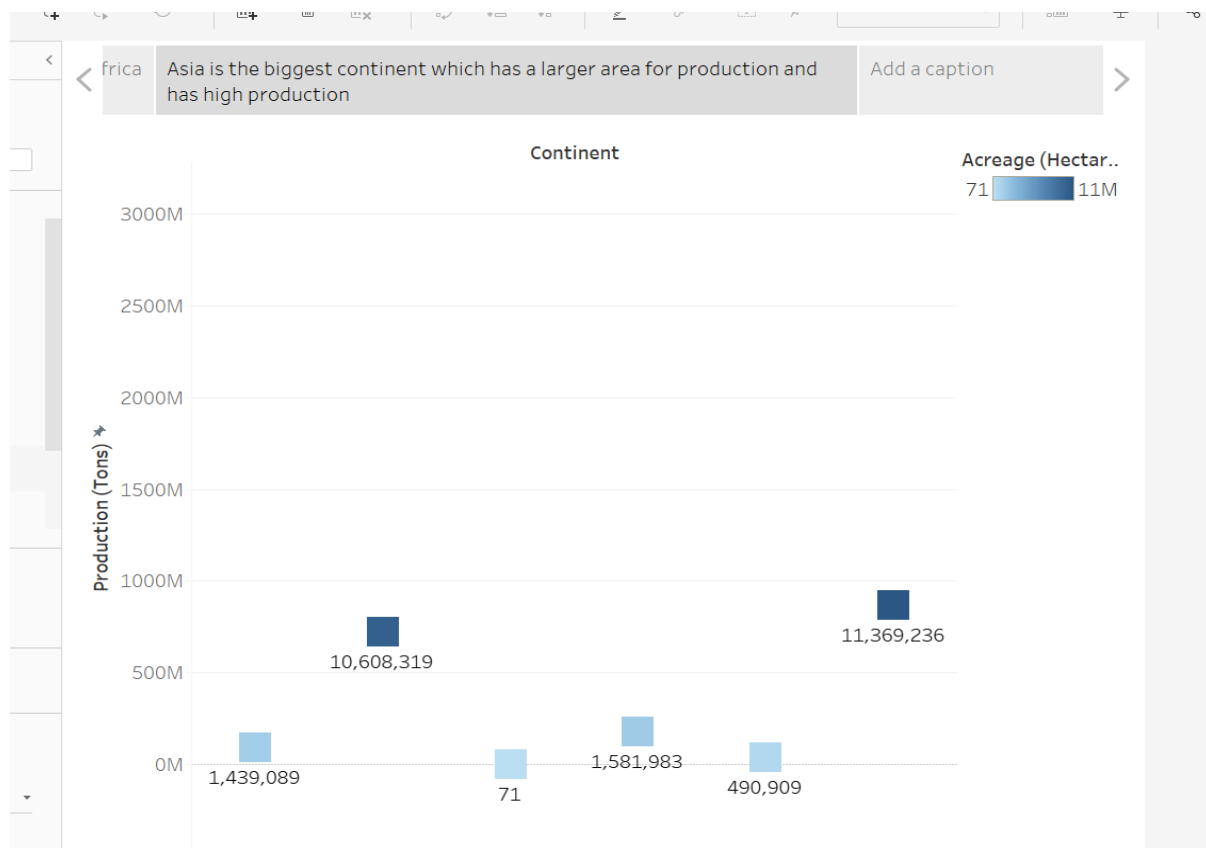
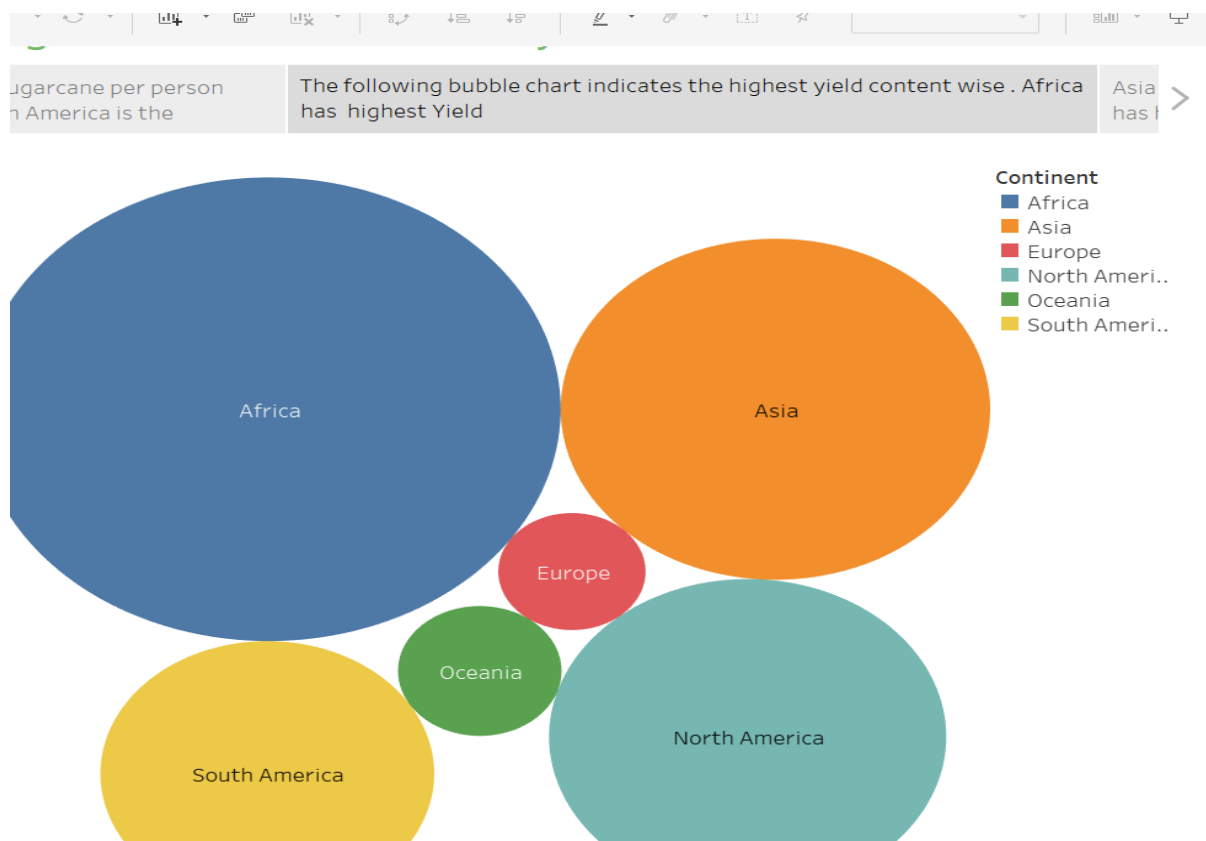
Sugarcane Production Analysis

< Chart for the area available for the top sugarcane yield The following shows the Yield according to country .Guatemala has high yield The t acco >



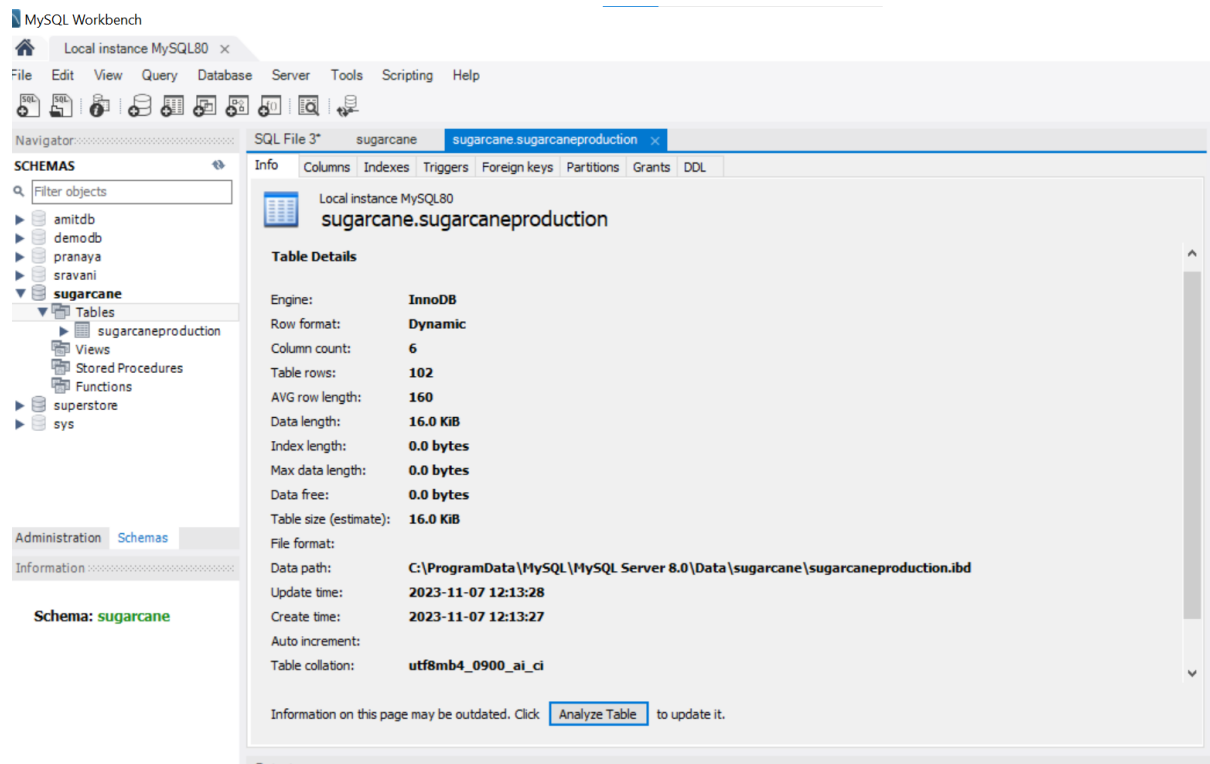
ry .Guatemala has high The following graph indicates the production of sugarcane per person according to the continent. we observe that North America is the The t has >





Performance Testing

➤ *Amount of Data Rendered to DB*



➤ *No of Calculation Fields*

In this Analysis we have not created any new column using calculation field as data found in dataset was clean and sufficient for analysis

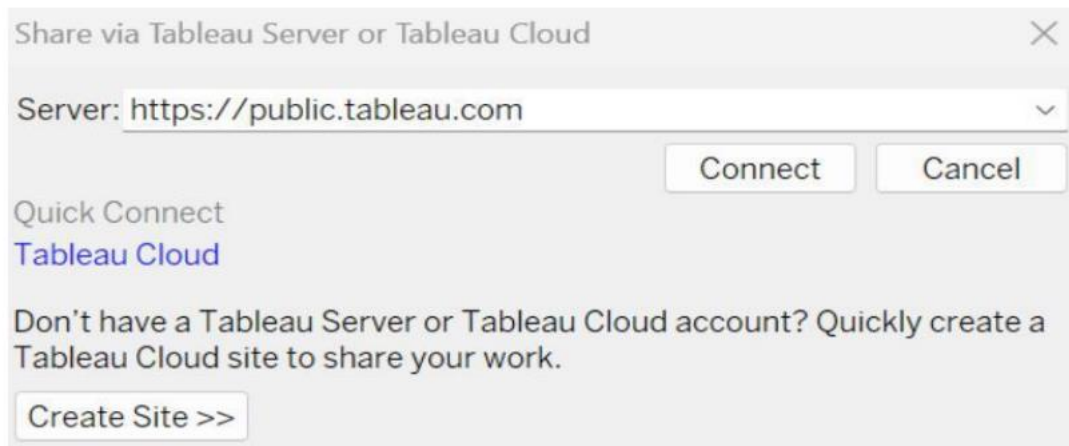
➤ *No of Visualizations/ Graphs*

1. Production per Person according to Country
2. Comparison of Production and Acreage according to country
3. Yield according to country
4. Production per person sum for continents
5. Average Yield according to Continent
6. Comparison of Acreage and Production according to Continent

Web integration

Publishing helps us to track and monitor key performance metrics and to communicate results and progress. help a publisher stay informed, make better decisions, and communicate their performance to others

Publishing dashboard and reports to tableau public



Share via Tableau Server or Tableau Cloud

Server:

Quick Connect
Tableau Cloud

Don't have a Tableau Server or Tableau Cloud account? Quickly create a Tableau Cloud site to share your work.

Give the server address of your tableau public account and click on connect.



tableau public

Email

Password

 This site is SSL encrypted

[Forgot your password?](#)

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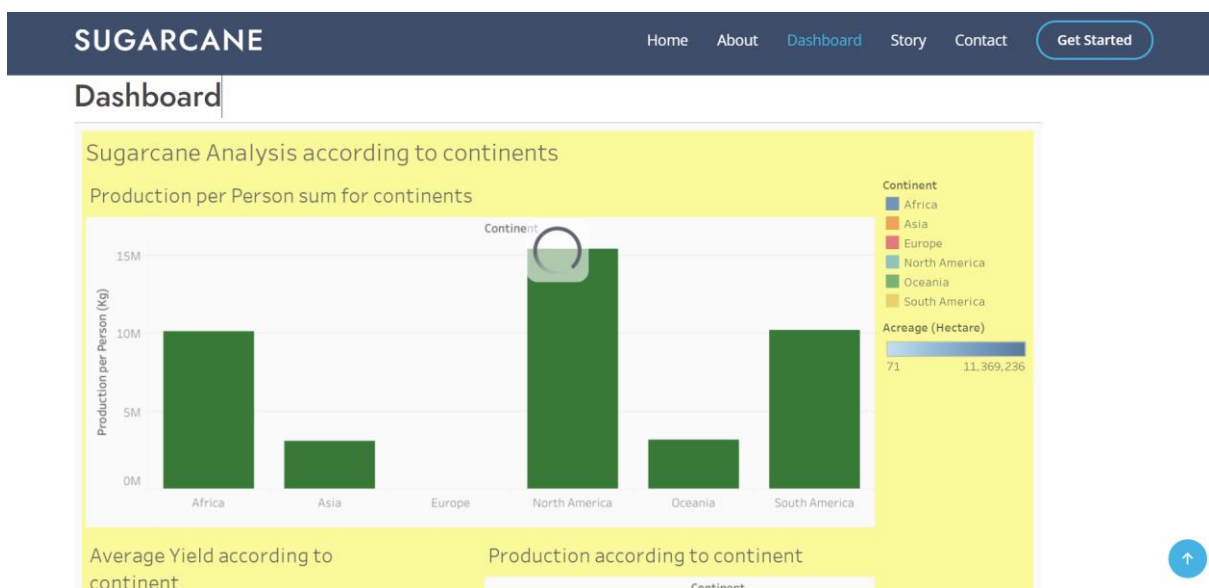
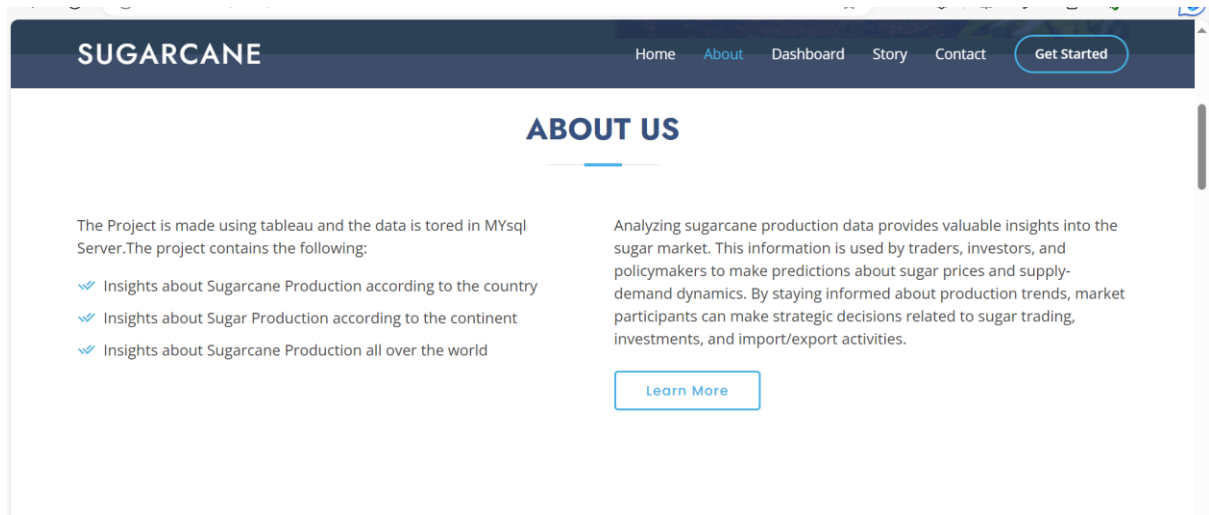
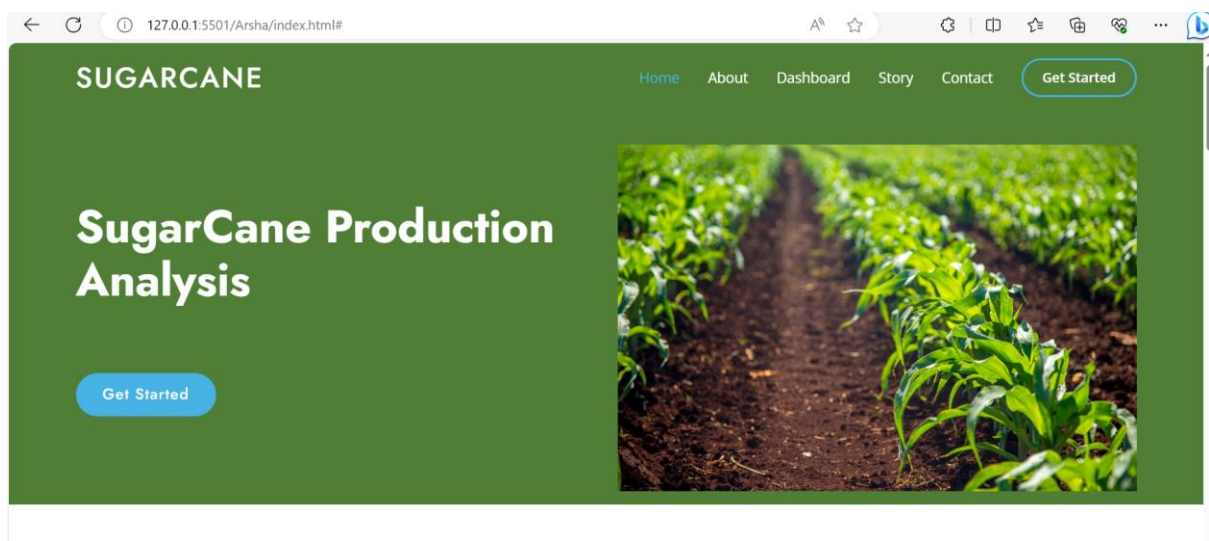
[Create one now for free](#)

These are the dashboard and story links which we have Published

<https://public.tableau.com/app/profile/sravani.gandla/viz/DashboardSugarcan e11/Dashboard2?publish=yes>

https://public.tableau.com/views/StorySugarcane11/Story1?:language=en-US&publish=yes&:display_count=n&:origin=viz share link

Embed Dashboard & Story with Web Bootstrap :



Check our latest work

The following visualization shows a **butterfly chart** for the area available for sugarcane cultivation and the production for the top sugarcane producing country. Among all the sugarcane producing countries Brazil is the largest sugarcane cultivation country and its production is also high.

