Internship

On
Data Analytics with Tableau

Project Based Experience Learning Program

SRI VENKATESWARA COLLEGE OF ENGINEERING

Project submitted by: -

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India Agriculture Crop Production Analysis (1197-2021)

Introduction:

Agriculture is the practice of cultivating plants and livestock in order to provide facilities the human beings. In the rise of the sedentary human lifestyle agriculture was the key development.

Project Overview:

➢ Agriculture is an evolutionary process that consists of a series of activities such as the production of food, fibers, feed, and raising of domesticated animals to fulfill the demand of the population. Agriculture is a key to development in the area of human civilization.

➢ India has a diverse climate, soil types, and agricultural practices, which allow for a wide range of crops to be cultivated. This diversity has made India one of the world's largest producers of various agricultural products, including rice, wheat, sugarcane, cotton, and more

Purpose:

➢ Agriculture is the foundation of the Indian economy. The population of India mostly depends on agriculture for their livelihood and agriculture contributes to 40 percent of the total GDP of the country.

➢ The primary purpose of crop production is to ensure a steady supply of food for the nation. India's diverse crops, such as rice, wheat, maize, and various pulses, provide staple food items for its population.
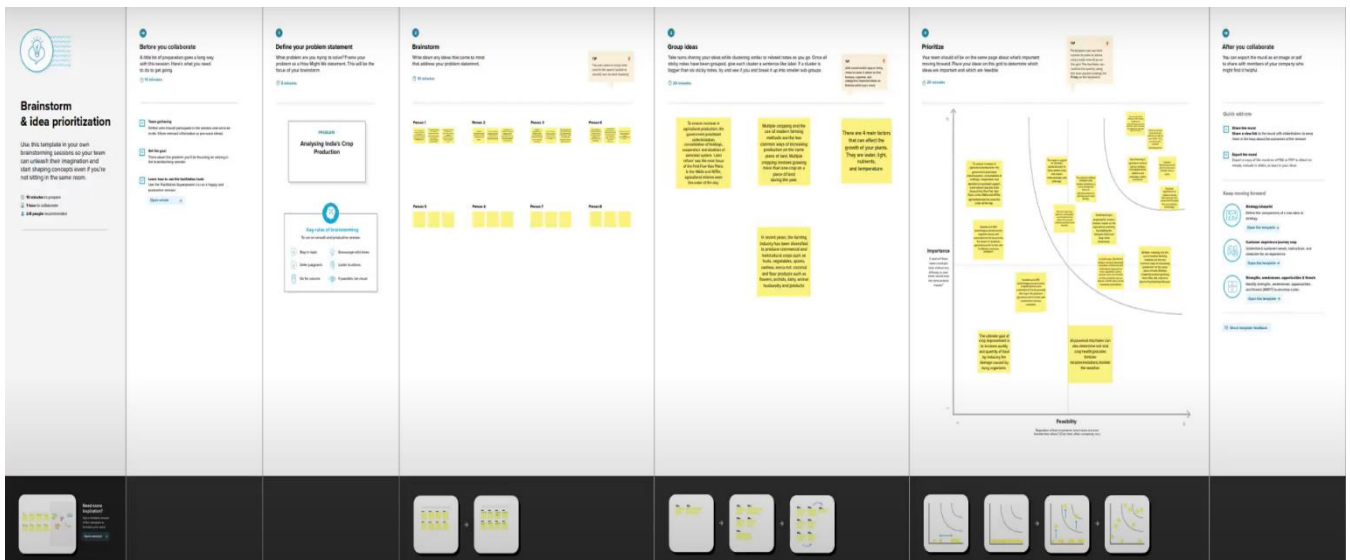

Fig: - Empathy Map

Fig: -Brainstorm

Advantages:

- Agriculture impacts society in many ways, including: supporting livelihoods through food, habitat, and jobs.
- Providing raw materials for food and other products.
- Building strong economies through trade.

Disadvantages:

- Erosion of soil by heavy rain, floods, insufficient vegetation cover.
- Reduces farm productivity.
- Inadequate irrigation facilities and poor management of water resources have led to a great decline in agricultural productivity.

Milestone:

Getting Started Explain the prerequisites and setup required to run the project.

Activity 1: -

Prerequisites Before getting started with the Facebook project, ensure you have the following prerequisites:

List the software and tools that need to be installed before running the project, such as:

- Tableau (Latest Version)
- Any other dependencies
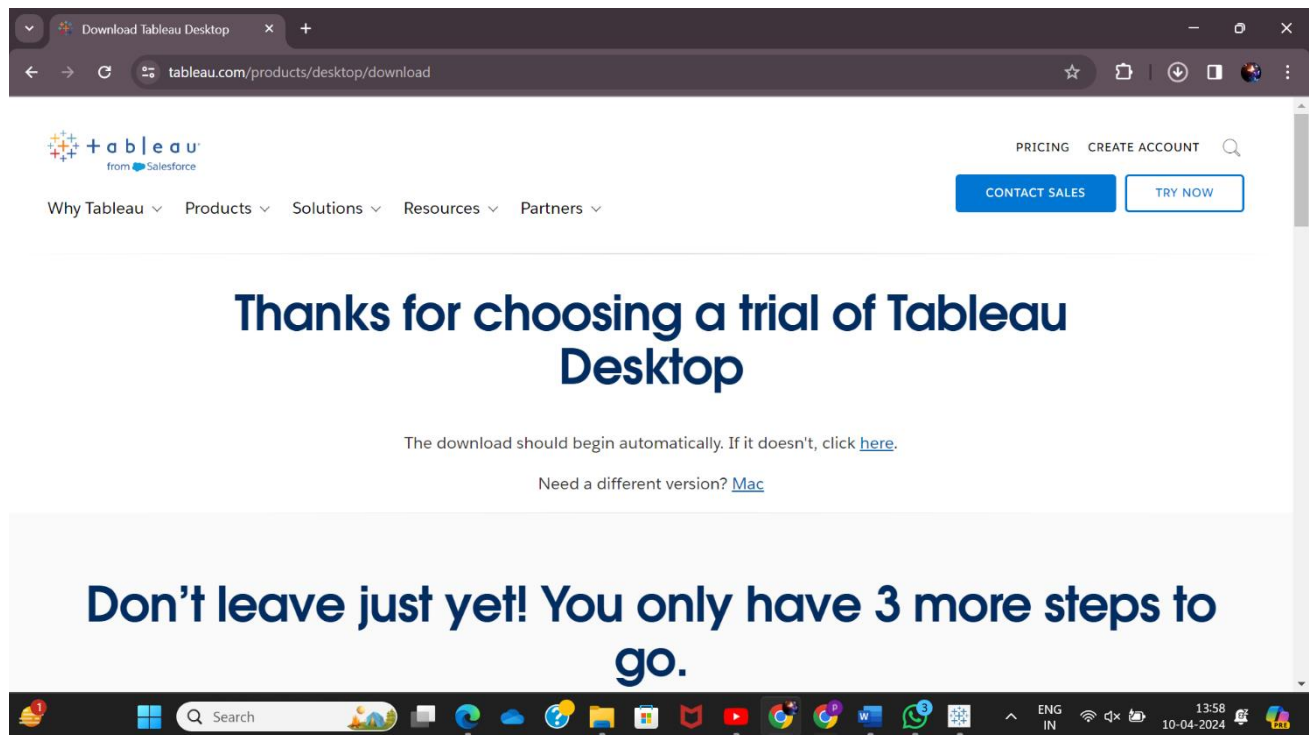
Activity 2: -

Installation

To install the necessary dependencies for the India Agriculture Crop Production project, follow these steps:
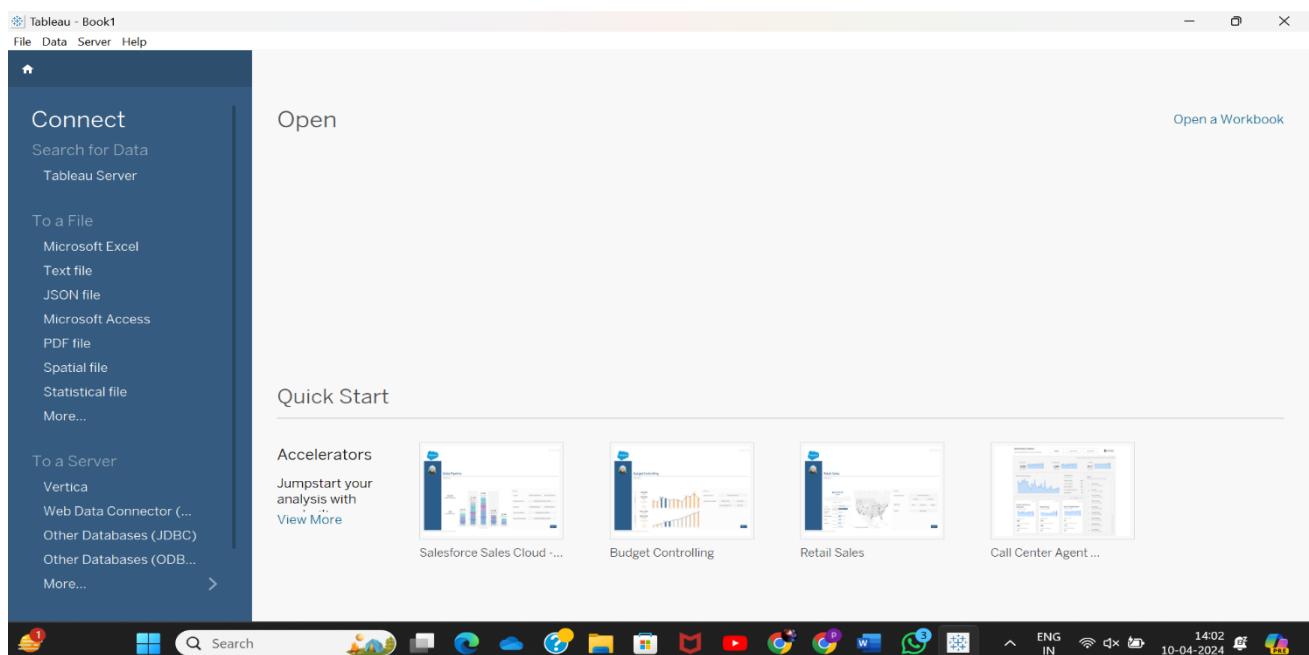
Activity 2.1: -

Install Tableau:

Visit the Tableau website (https://www.tableau.com/products/desktop/download) and download the latest version of Tableau.

Follow the installation instructions for your operating system.
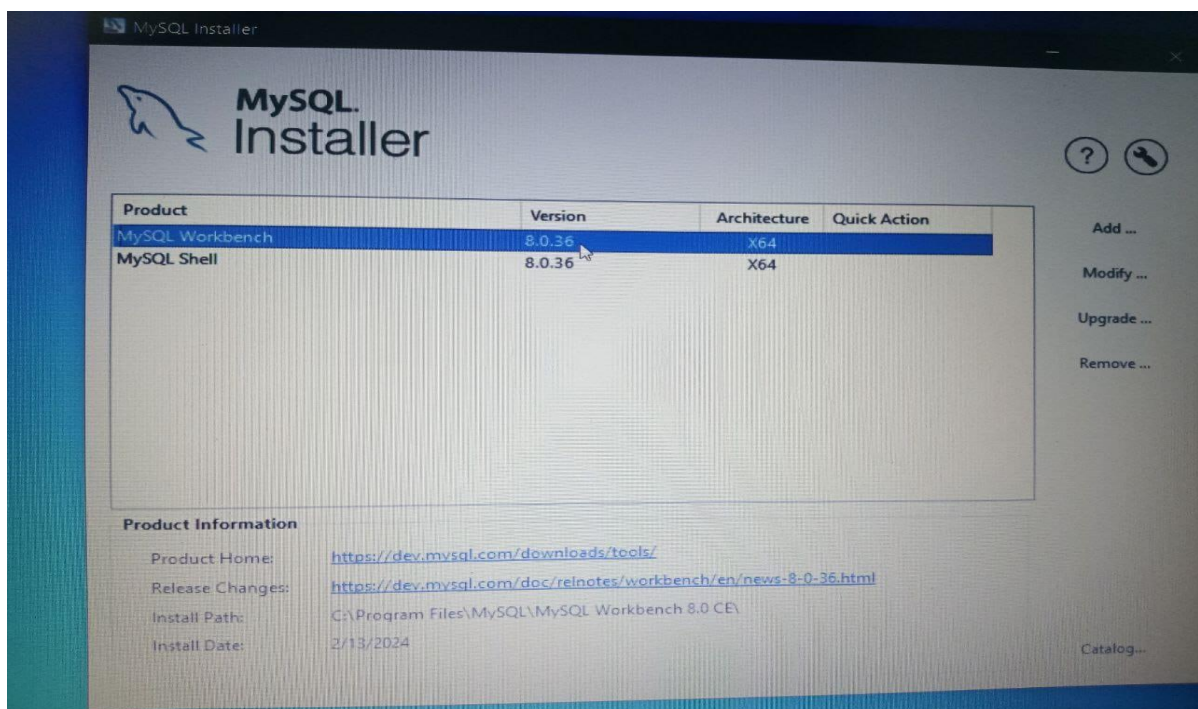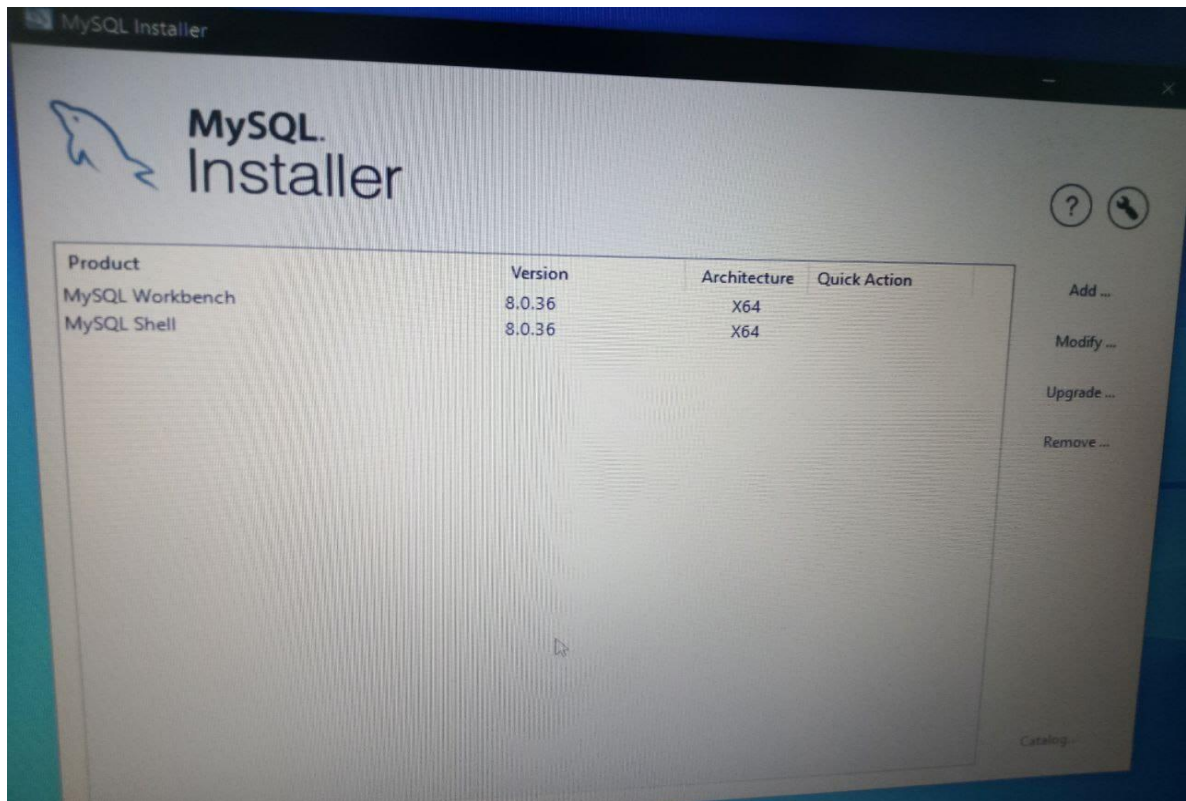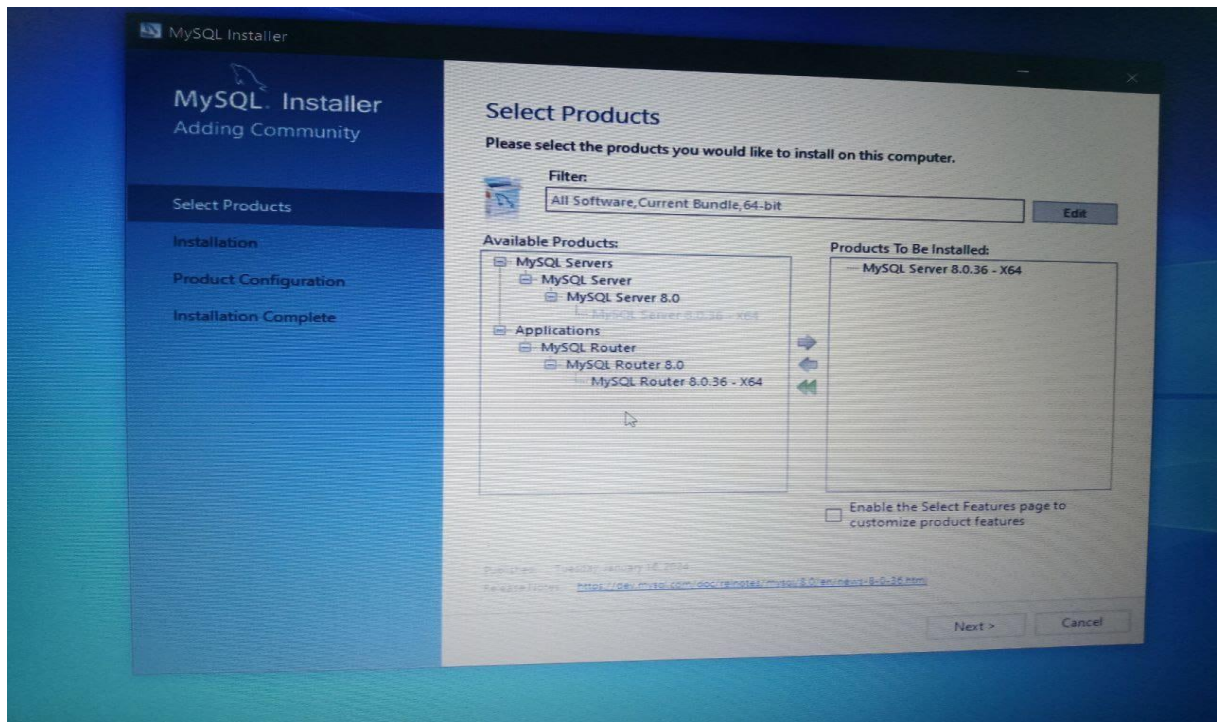

➔ **After downloading Tableau open and install**

➔ **After installing provide your email id and click continue and open tableau.**

➔ **Or start free trail if applicable.**

Activity 3: -

→ MySQL Installer

→ Select the product of MySQL Workbench and select the available products with application.
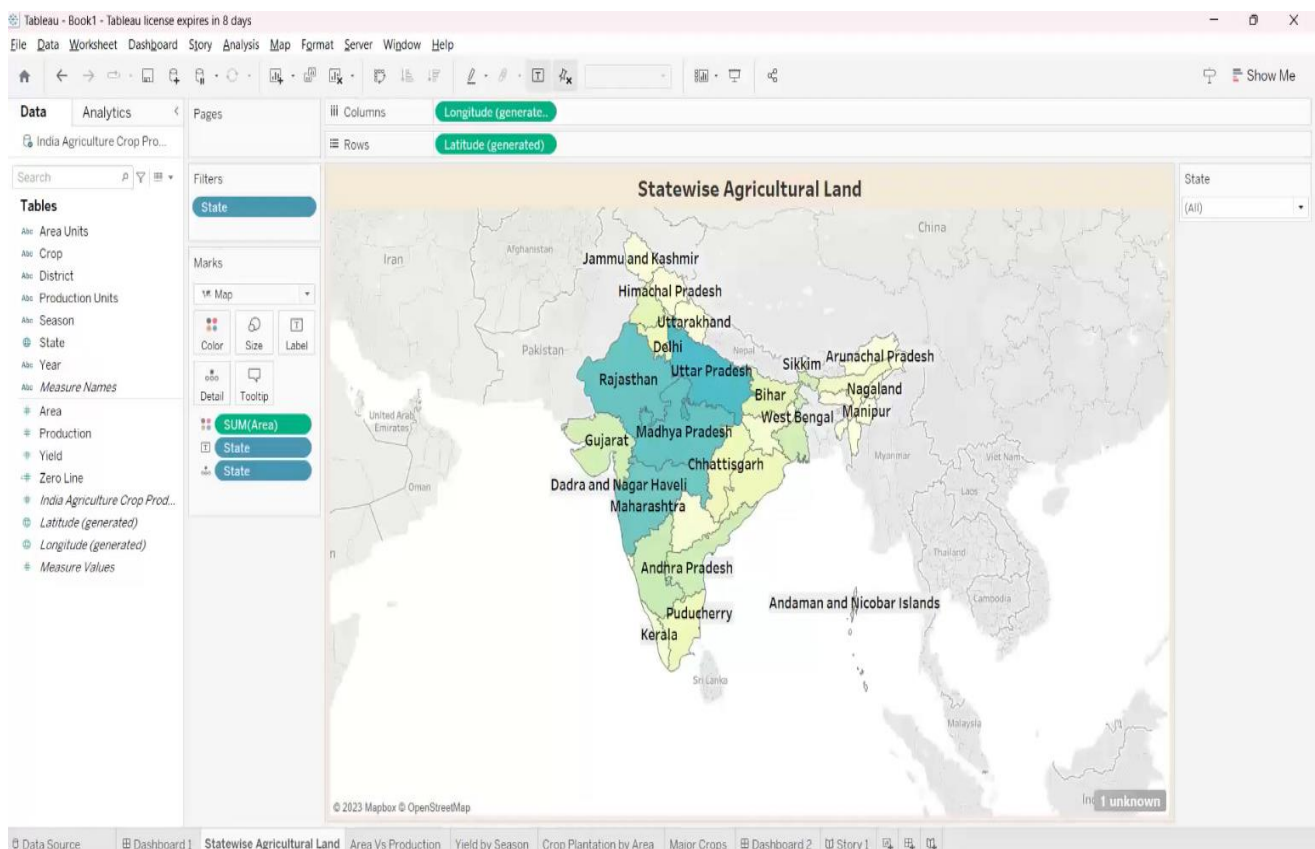
Sheets by running Tableau (DATA VISUALIZATION): -

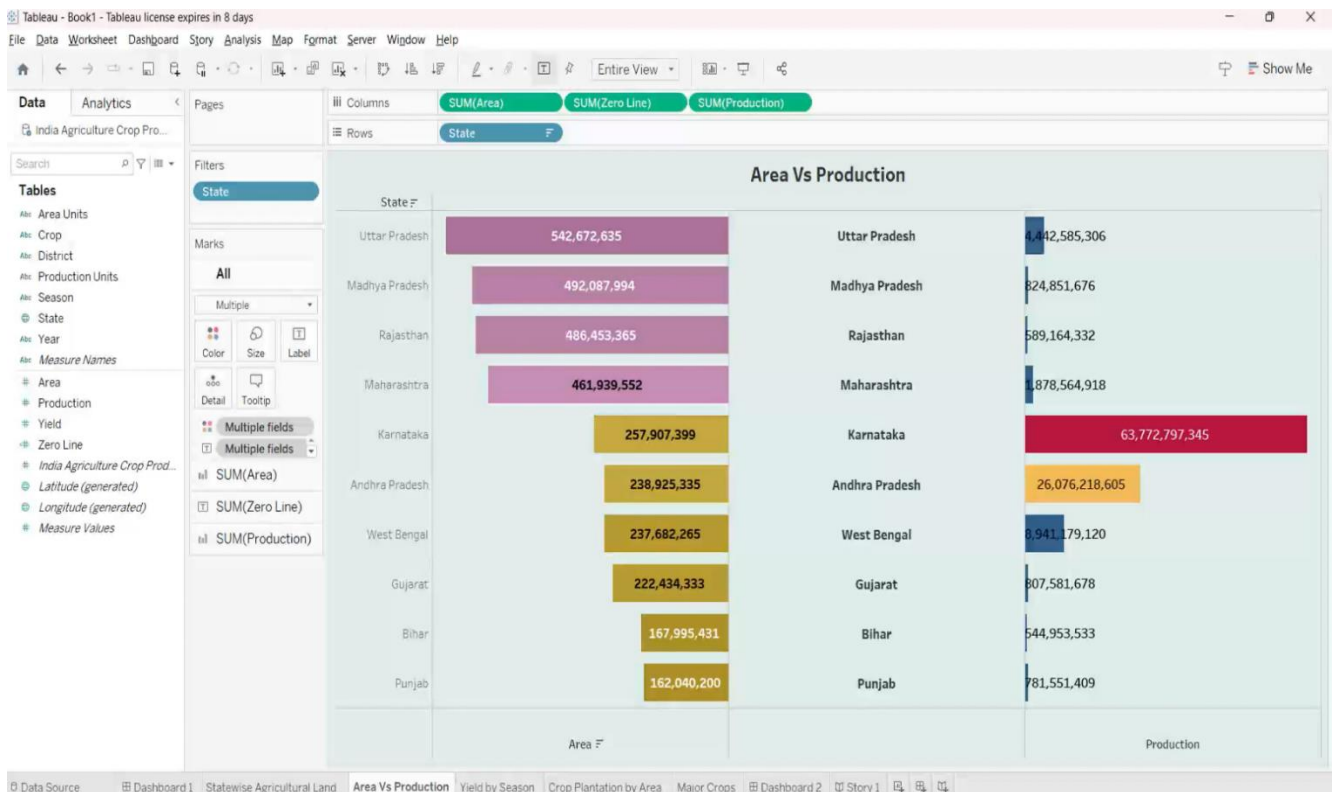
Fig: - State wise Agricultural Land
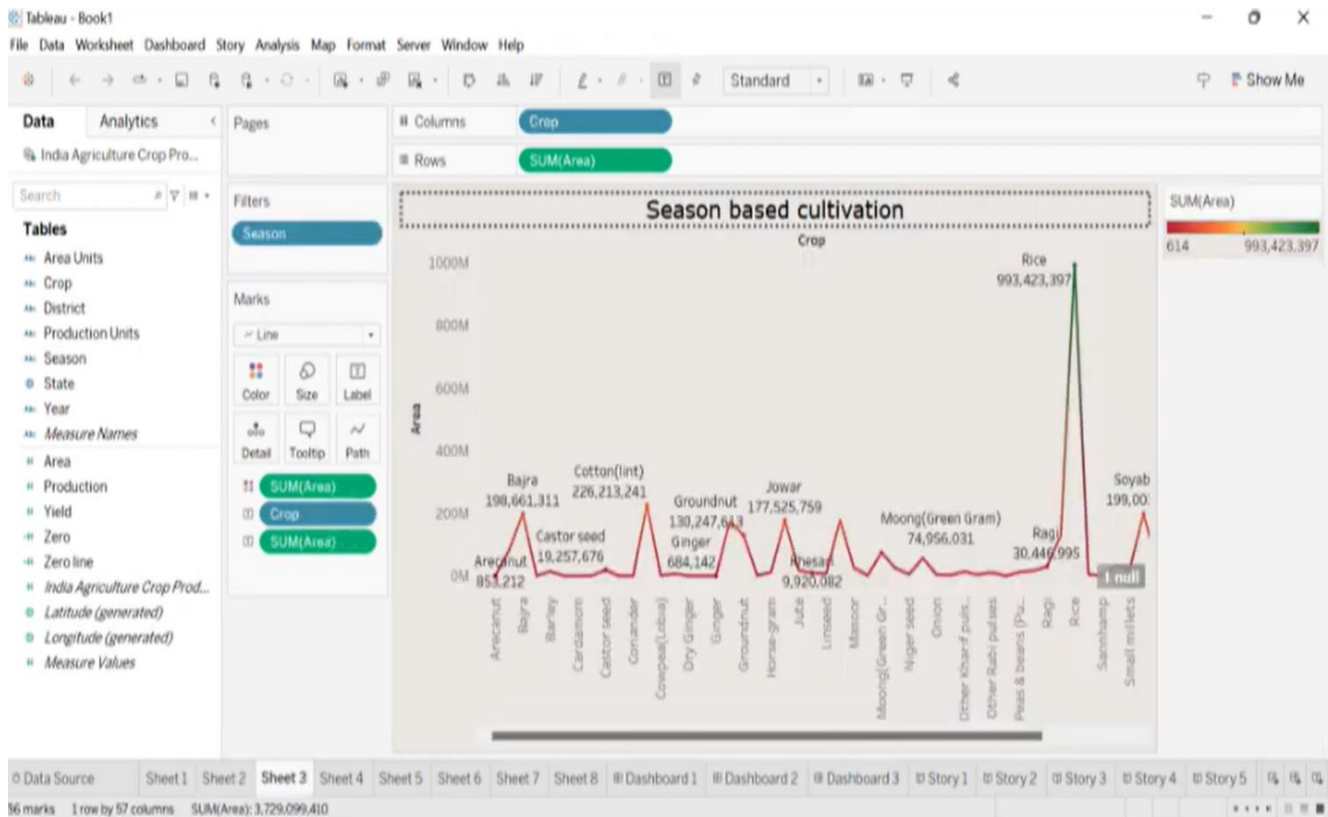
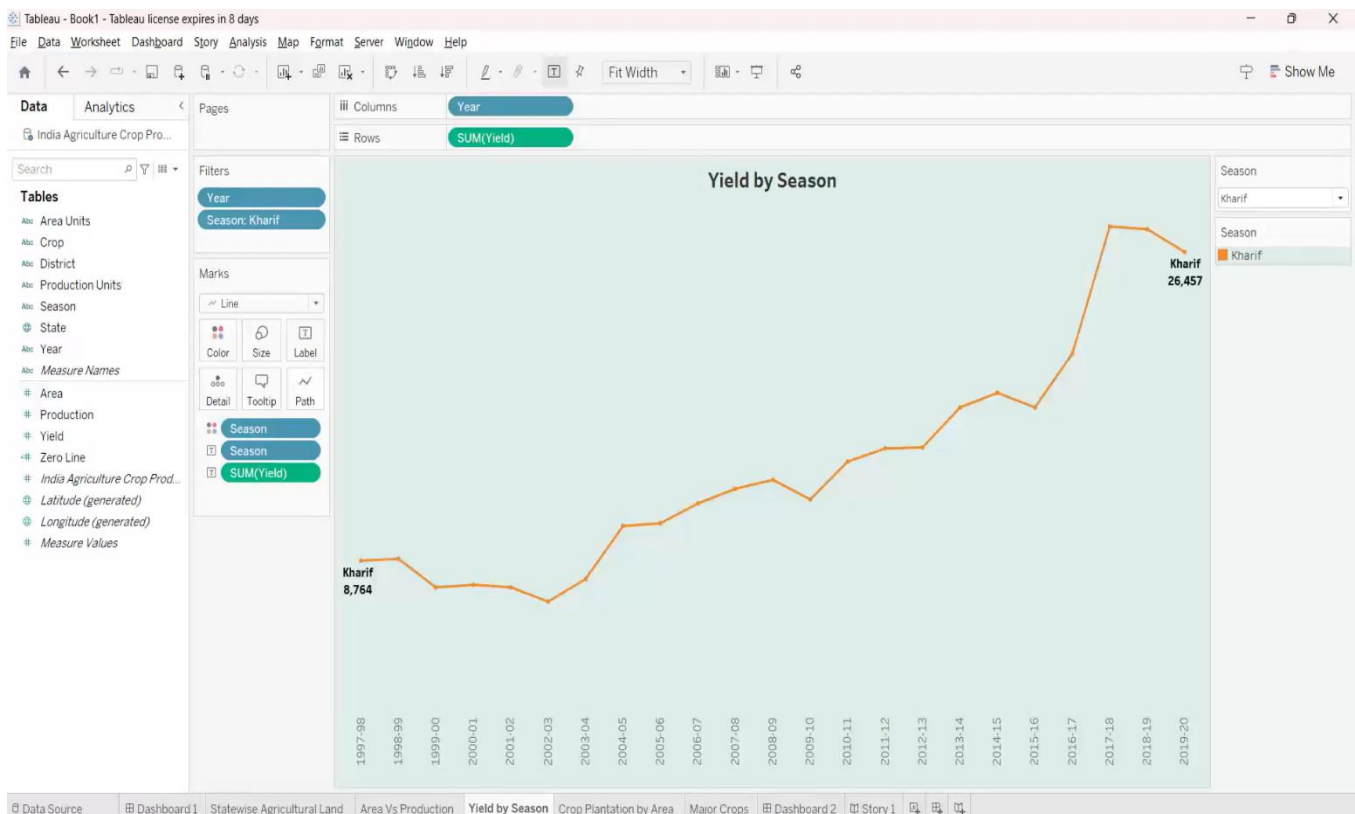**Fig: - Area vs Production**

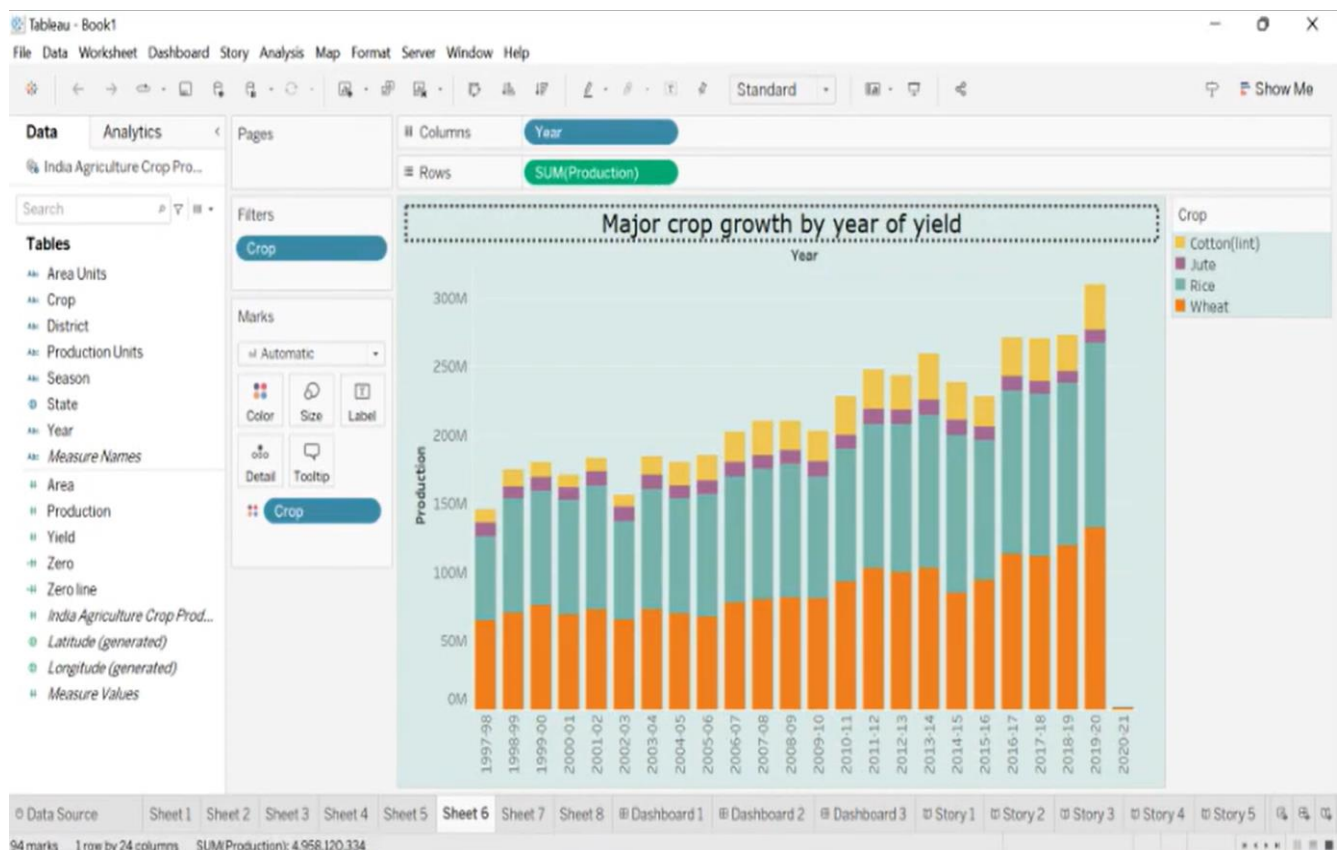**Fig: - Season Based Cultivation**

Fig: - Yield by Season

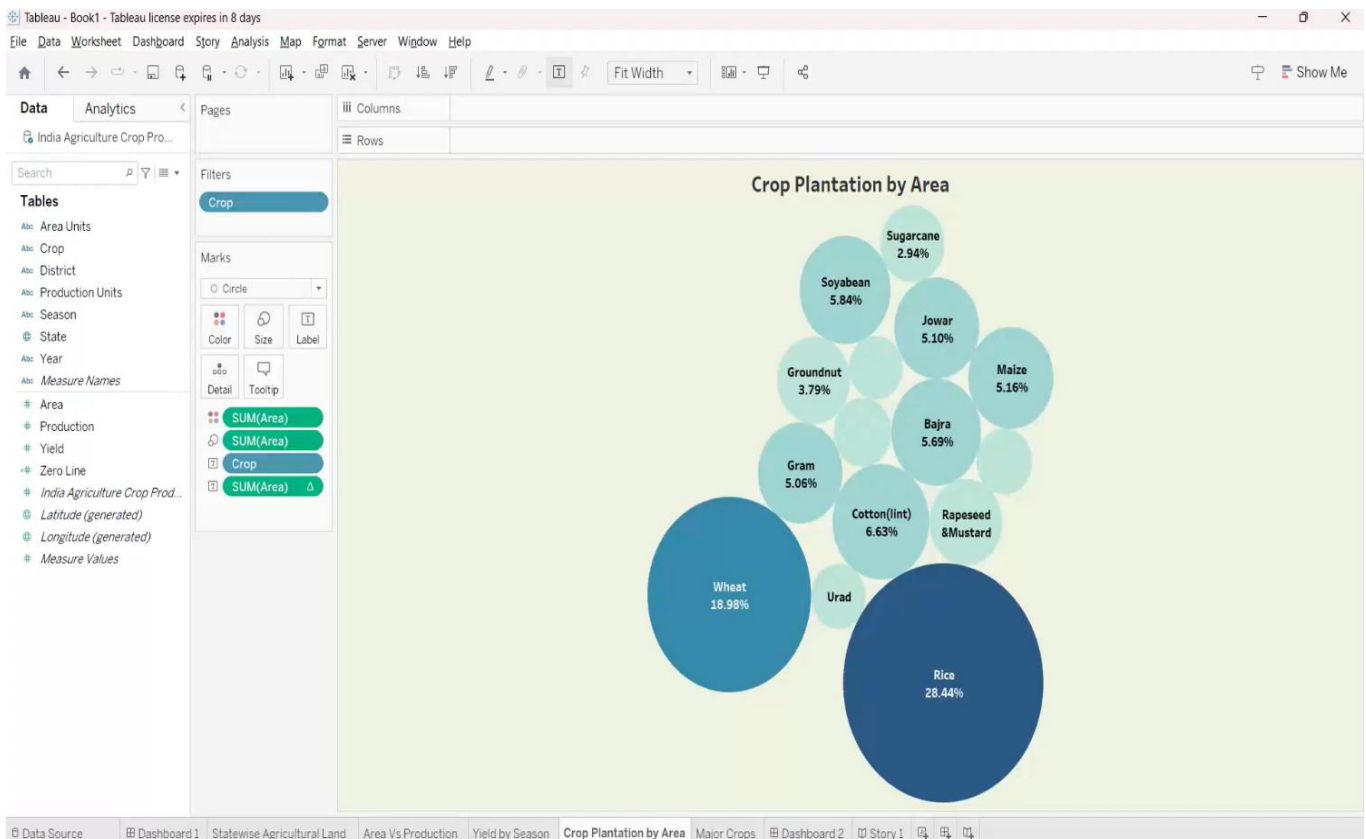**Fig: - Major Crops Growth Yoy**
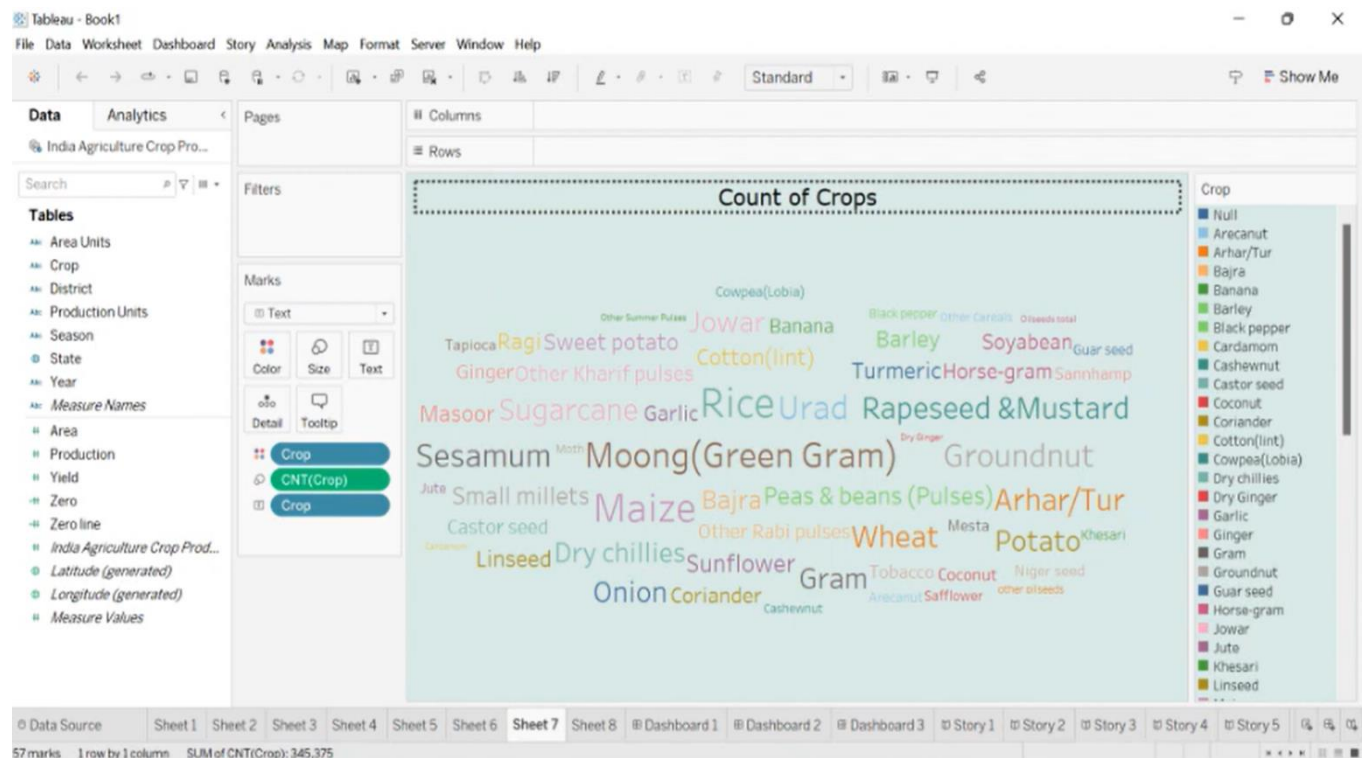
Fig: - Crop Planting by Area
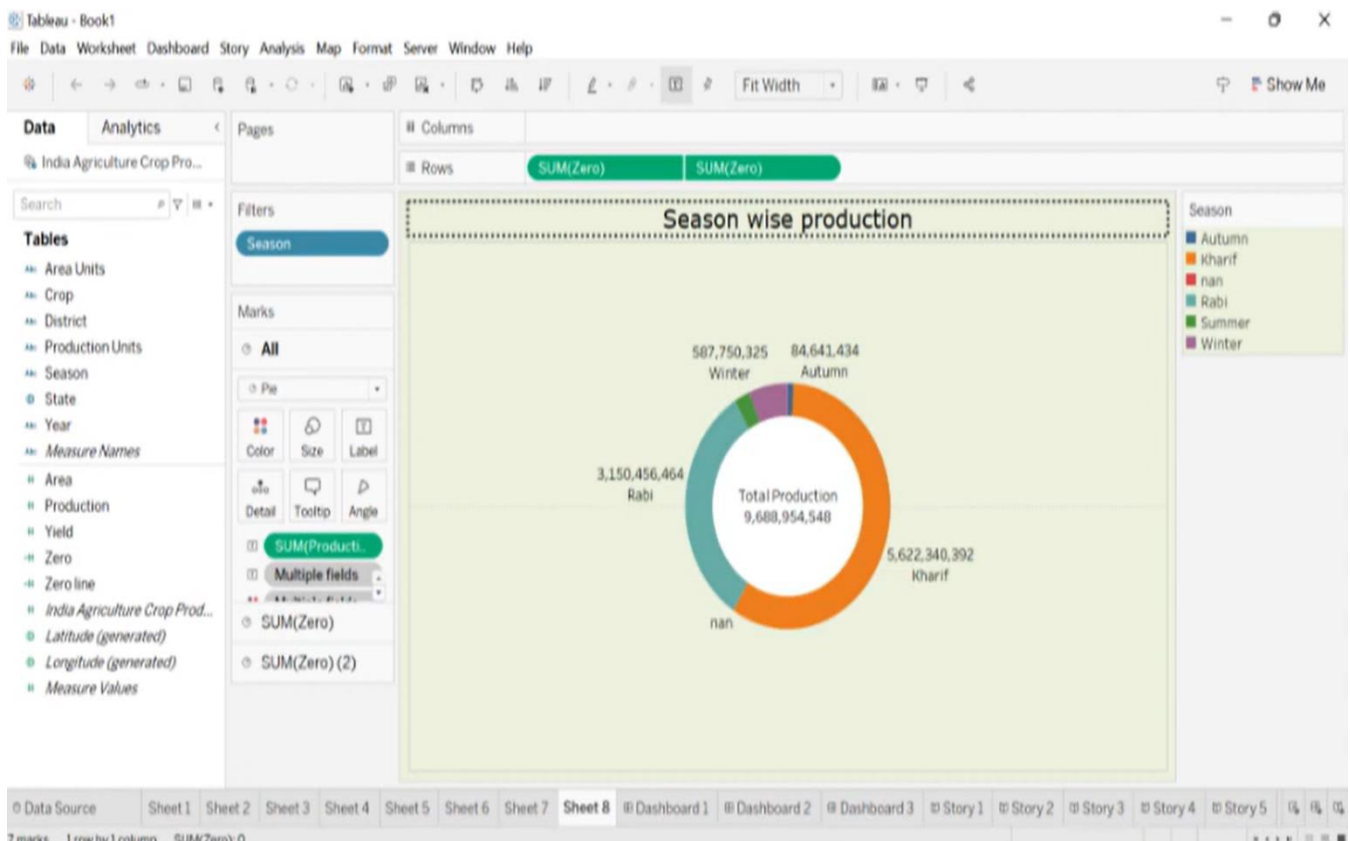

Fig: - Count of Crops

Fig: - Season wise production

Application:

- All these initiatives have led to sustainable and inclusive development of the sector.
- India's foodgrains production touched a record 315.7 million tonnes in 2021-22.
- Despite climate change challenges says the Economic Survey 2022-23.
- Tabled in the Parliament by the Union Minister of Finance and Corporate Affairs.

Conclusion:

Traditional agriculture is an extractable process where all resources - human, water, and land - are taken and applied to immediate use. Modern agriculture uses planned technology and emphasizes management practices of conservation and renewability of resources.