Project Development Phase – Sprint 1

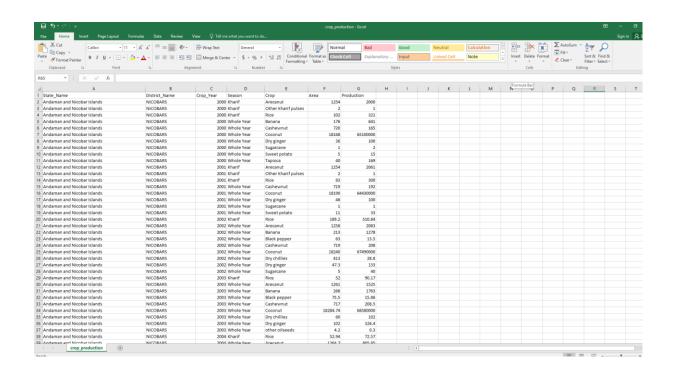
WORKING WITH DATASET

Date	29 October 2022
Team ID	PNT2022TMID23966
Project Name	Estimate The Crop Yield Using Data Analytics

To work on the given dataset, you need to first Understand the Dataset and the Load it to Cloud platform then Build the required Visalizations to provide various visual analytical solutions.

Understanding the Dataset:

This project is based on a understanding the crop production of India .Download the dataset from the below link. It has 2,46,092 data points (rows) and 6 features (columns) describing each crop production related details.



Let's understand the data we're working with and give a brief overview of what each feature represents or should represent

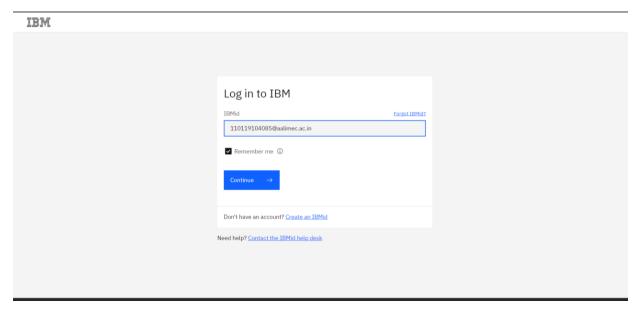
- 1. State Name All the Indian State names.
- District Name -Different District names.
- 3. Crop Year- contains the crop years.
- 4. Season Different seasons for crop production.
- 5. Area- Total number of areas covered.
- 6. Production- production of crops.

Loading the Dataset:

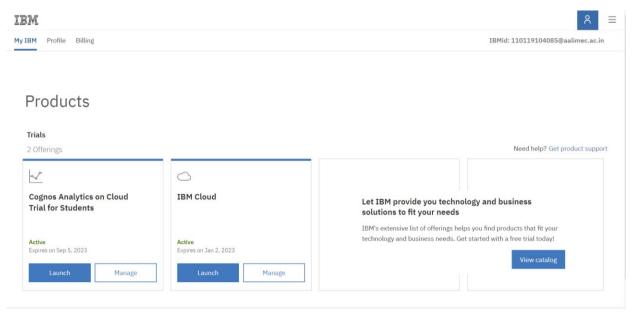
Before you can build a view and analyze your data, you must first connect the data to IBM Cognos. Cognos supports connecting to a wide variety of data, stored in a variety of places.

The data might be stored on your computer in a spreadsheet or a text file, or in a big data, relational, or cube (multidimensional) database on a server in your enterprise.

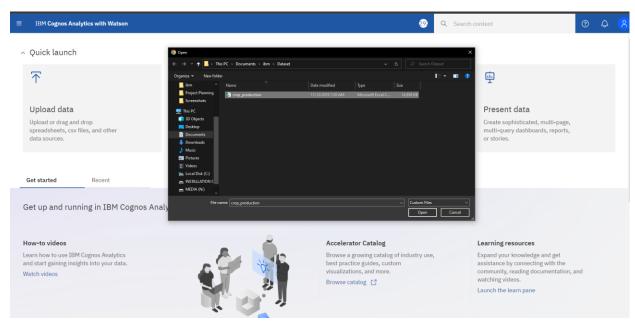
Step 1: Login to the IBM Cognos Analaytics with Watson.



Step 2: Launch the IBM Cognos Analaytics.



Step 3: Upload the Dataset

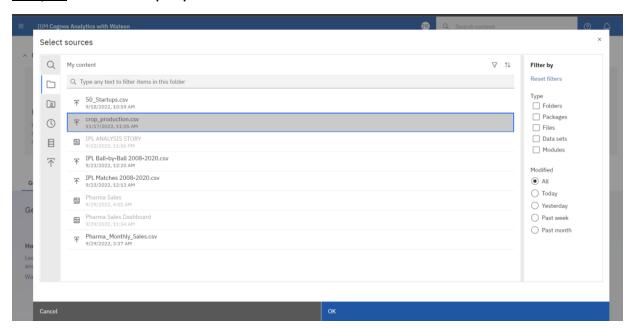


Preparing the Data:

The uploaded data can be prepared using the option called "prepare data".

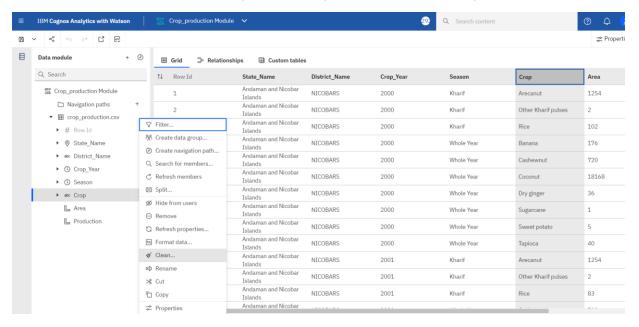
Using this option we can create data modules and with the data module we can clean the data.

Step 1: Click the prepare data and choose our dataset.



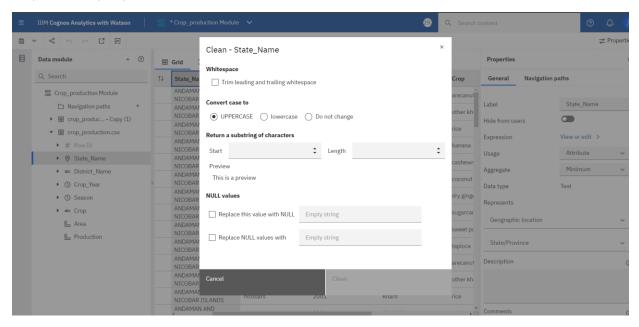
After choosing our dataset click "OK" option in the bottom right corner.

Step 2: Clean the data by right clicking the specific category.



Step 3: We can do the required cleaning operations.

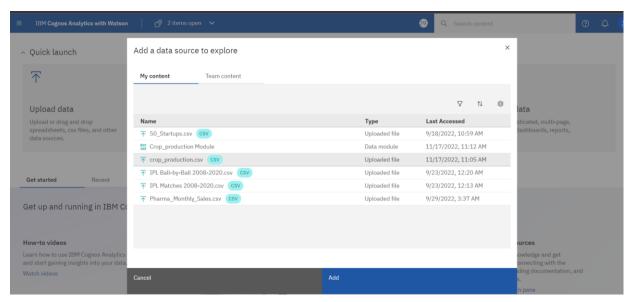
(eg: Changing State names to Uppercase)



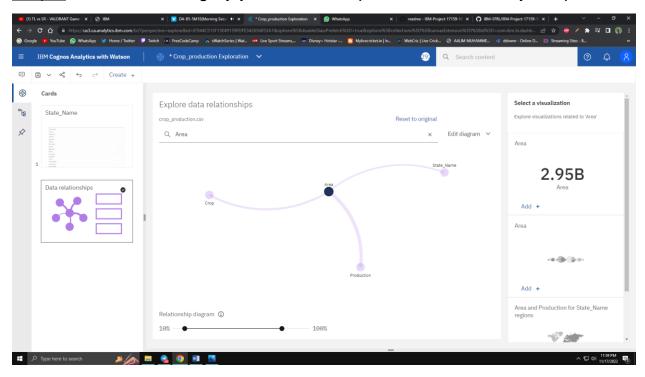
Data Exploration:

Quickly find unbiased answers by identifying trends in your data with data exploration.

Step 1: Upload the dataset using Exploration option in IBM cognos Analytics.



Step 2: Select the category you want to explore from the data you uploaded.



Step 3: You can select the required data subsets to explore more about them

