

Estimate The Crop Yield Using Data Analytics

Project Development Phase Model Performance Test

Model Performance Testing:

Project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs – 5
2.	Data Responsiveness	Yes, the website is responsive completely,that is by resizing the browser window size as per the test scenario. CROP PRODUCTION DATASET The dataset contains 7 rows and 246091 record and dataset contains different state name, different district name, crop year ,crop, area, seasonand production
3.	Amount Data to Rendered (DB2 Metrics)	To connect IBM Db2 database cloud with cognos analytics: By using IBM Db2 to create Dashboard,Report,Story,Visualization andExploratory data analytics(EDA)
4.	Utilization of DataFilters	Utilization of data filters – 5
5.	Effective User Story	No of Scene Added – 8 To create the Registration page of the Website To create the Login page of the Website To create the Dashboard page of the Website To work on the given dataset,Understand the Dataset Load the dataset to Cloud platform then Build the required Visualizations Using the Crop production in Indian dataset,create various graphs and charts to highlight the insights and visualizations. Build a Visualizations to showcase Average Crop Production by Seasons Showcase the Yearly usage of Area in Crop Production
6.	Descriptive Reports	No of Visualizations / Graphs – 5 Visualization1 - Average Crop Production by Seasons Visualization2 - Yearly usage of area in crop production Visualization3 - Top 10 States in Crop Yield Production by Area Visualization 4 - Crop Production by State Visualization5 - Represent the States with Seasonal Crop Production using a Text representation

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N			
1	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production										
2	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Areca nut	1254	2000										
3	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Other kharif pulses	2	1										
4	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice	102	321										
5	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Banana	176	641										
6	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Cashewnut	720	165										
7	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Coconut	18168	6510000										
8	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Dry ginger	36	100										
9	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sugarcane	1	2										
10	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sweet potato	5	15										
11	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Tapoca	40	169										
12	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Areca nut	1254	2061										
13	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Other kharif pulses	2	1										
14	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Rice	83	300										
15	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Cashewnut	719	152										
16	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Coconut	18190	6443000										
17	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Dry ginger	46	100										
18	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Sugarcane	1	1										
19	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Sweet potato	11	33										
20	Andaman and Nicobar Islands	NICOBARS	2002	Kharif	Rice	189.2	510.84										
21	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Areca nut	1254	2081										
22	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Banana	213	1278										
23	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Black pepper	63	13.5										
24	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Cashewnut	719	208										
25	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Coconut	18240	6749000										

IBM Cognos Analytics with Watson

Search contact

Hello. Welcome to Cognos Analytics with Watson.

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

Watch video

Take a product tour

crop_production.csv was uploaded successfully.

Hide Details

Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data

Use data modules to clean and connect data from multiple resources.

Exploration

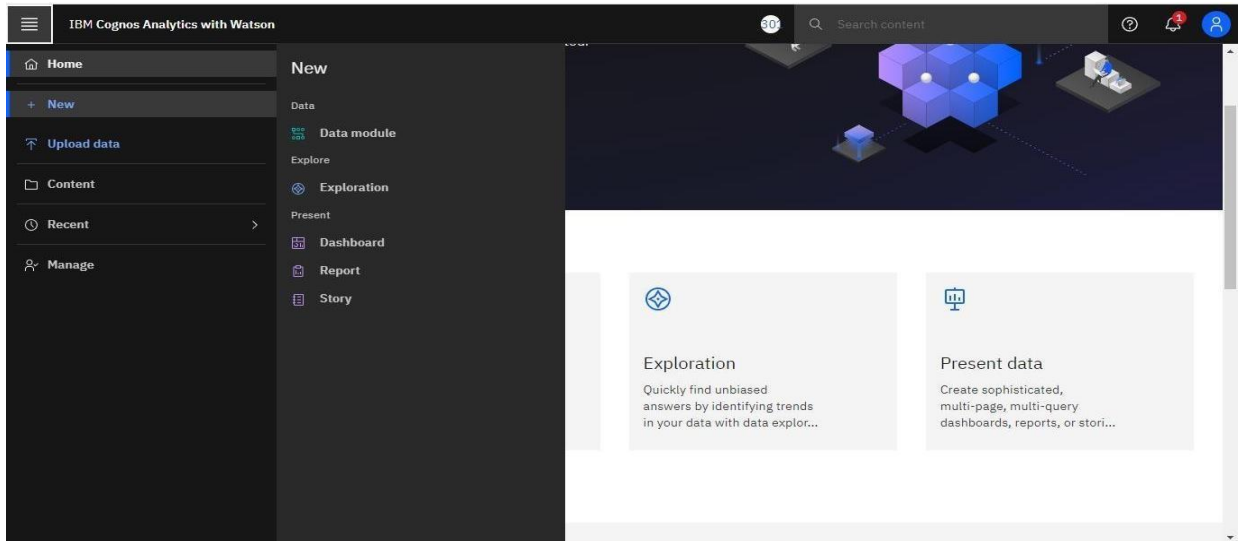
Quickly find unbiased answers by identifying trends in your data with data explorer.

Present data

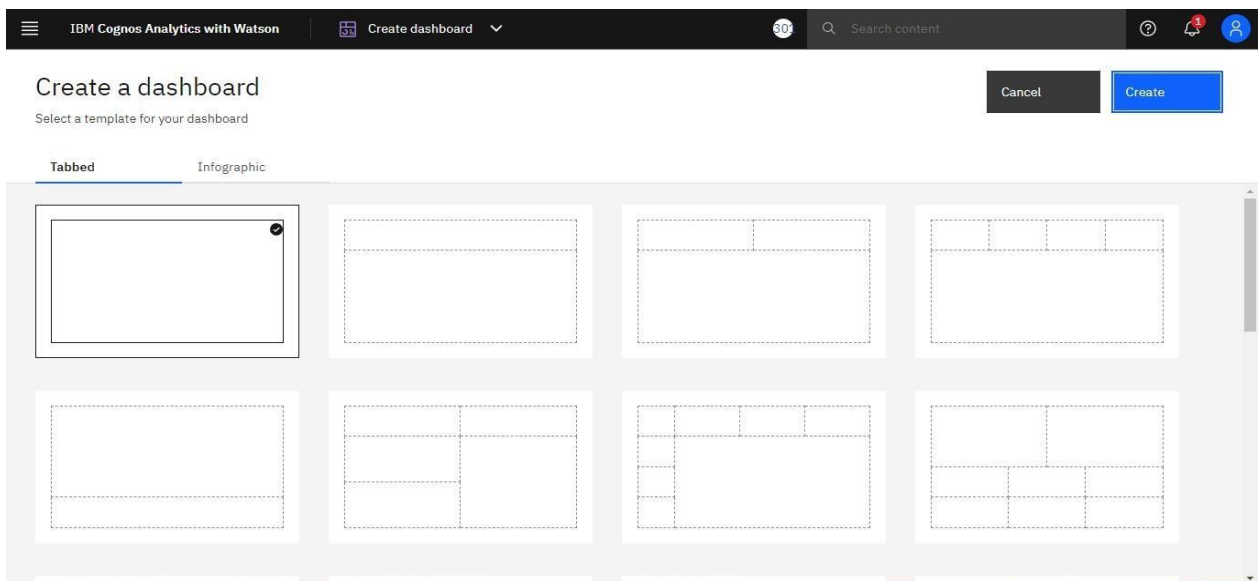
Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

VISUALISATION

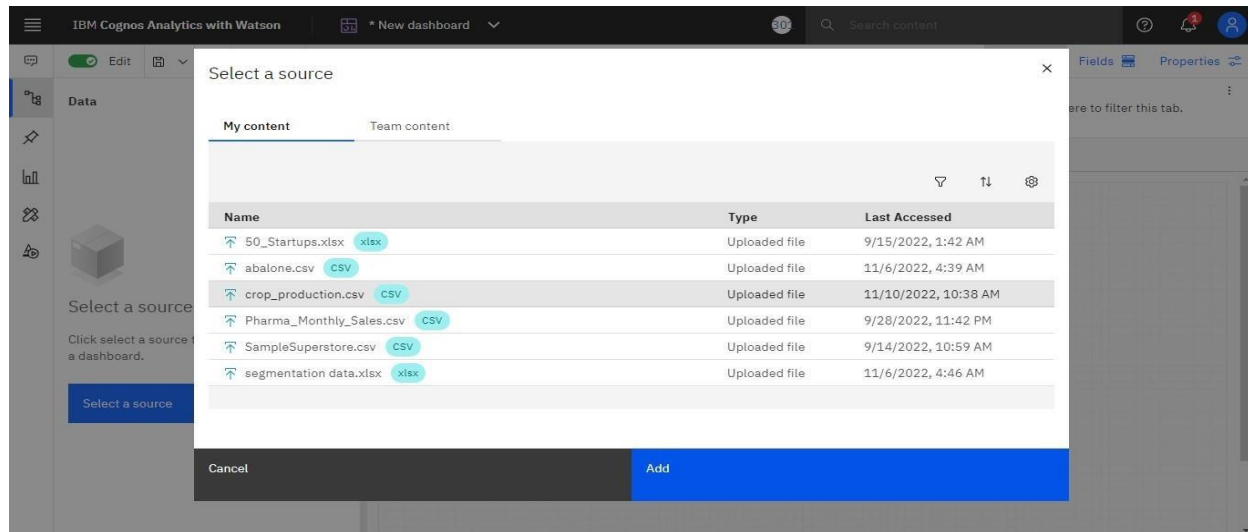
- Login to IBM Cognos then in open menu click **New -> Dashboard** .



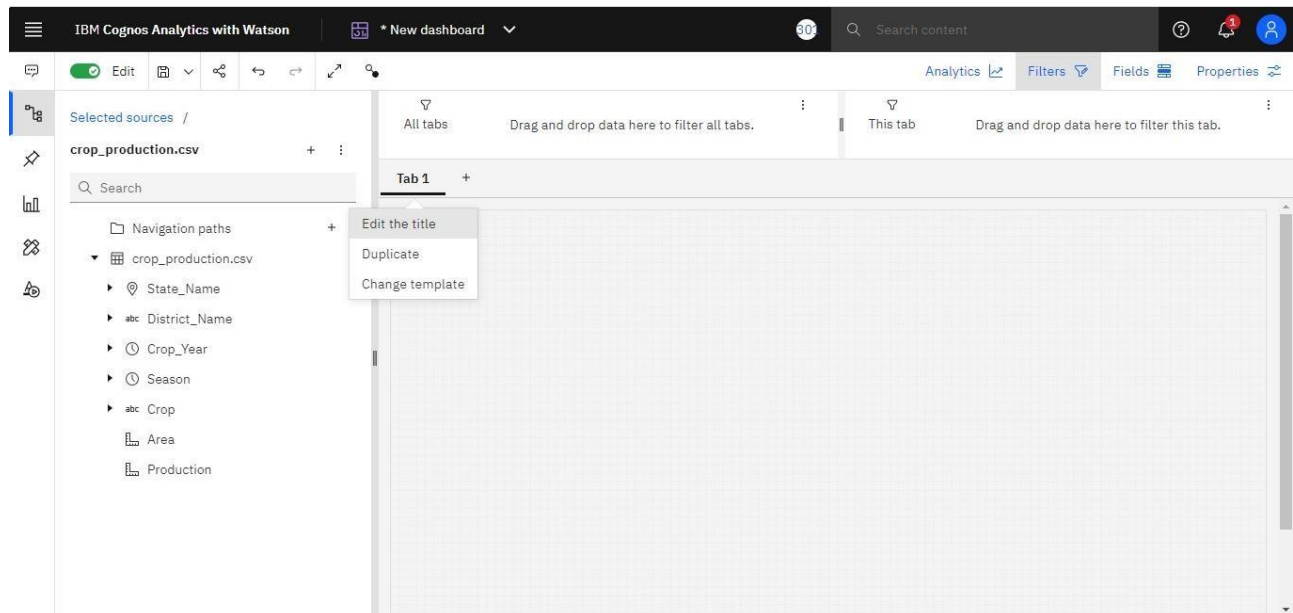
- Select a template for your dashboard and click create.



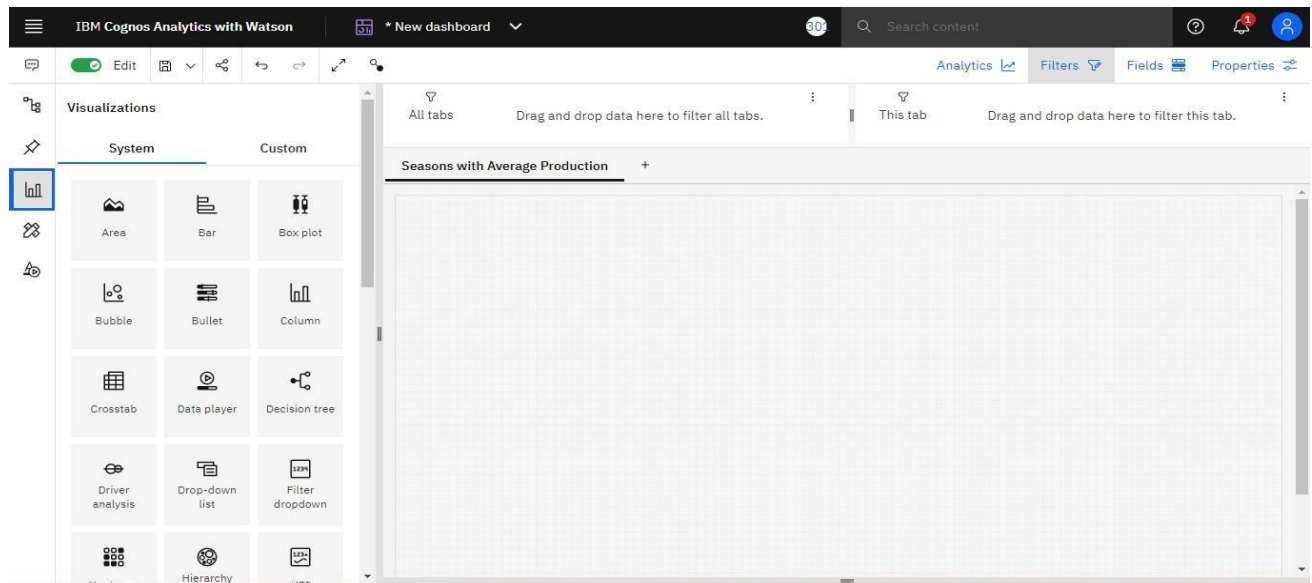
- Click the select a source then select the **crop_production.csv** dataset under **My content** tab and click **Add**



- Rename the tab title

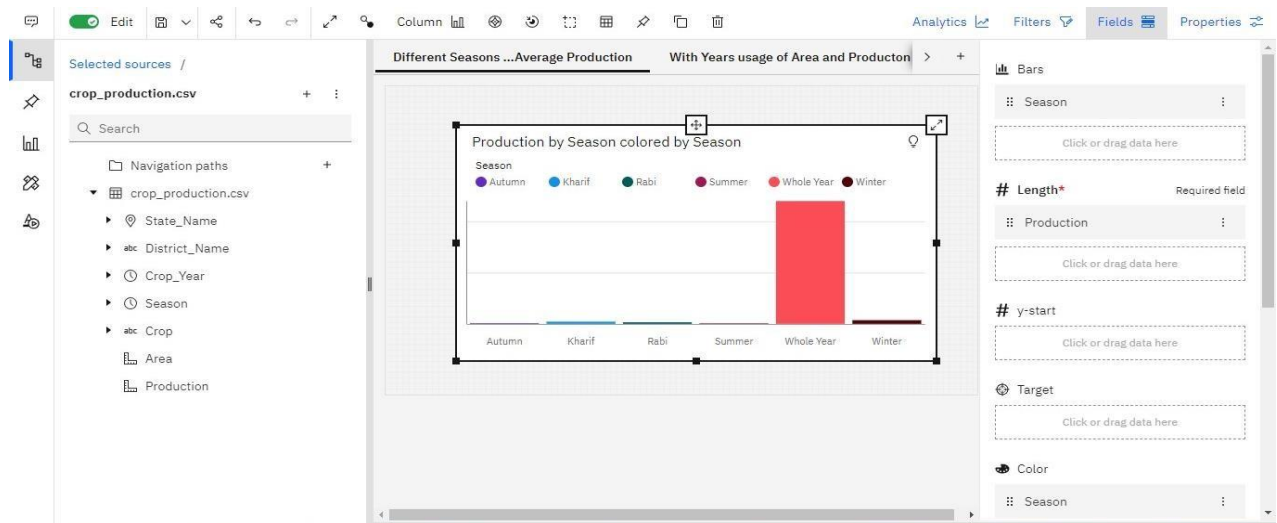


- Select the visualizations and select the system you want.



1. Seasons With Average Productions

- Select the column in choose visualization and in fields select “Season” for Bars and “Production” for Length.



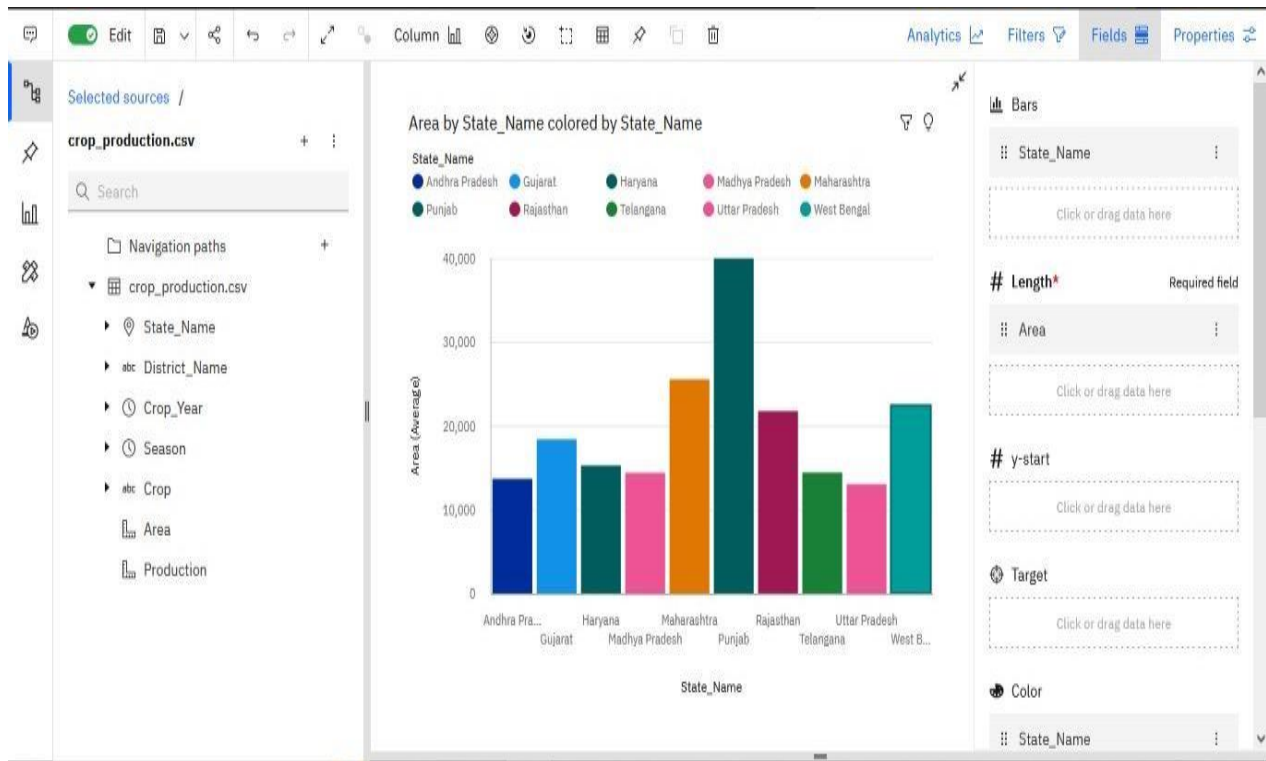
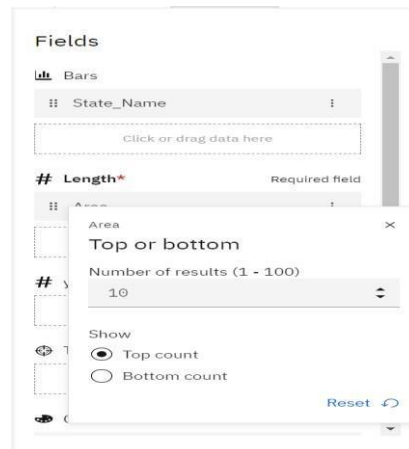
2. With Years Usage Of Area Production

- Select the Area in choose visualization and in fields select "Crop_Year" for X-axis and "Area" for Y-axis.



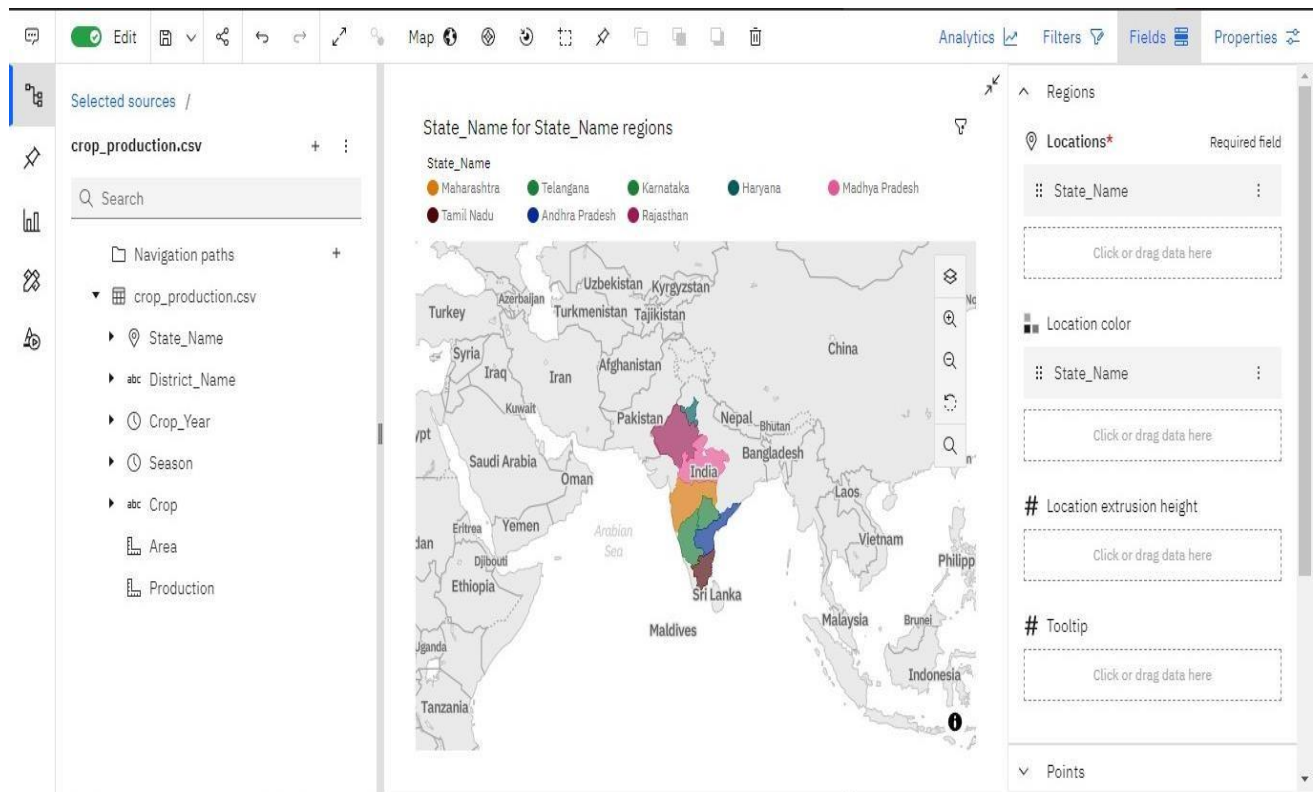
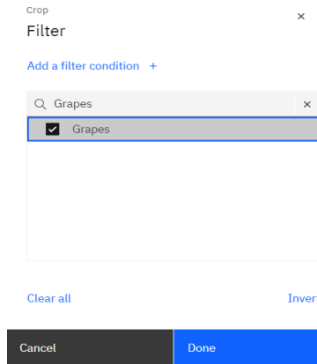
3. Top 10 States With Most Area

- Select the column in choose visualization and in fields select “State_Name” for Bars ,“Area” for Length “State_Name” for Color.
- Select three dots in Area -> Summarize -> Average.
- In Area click on the three dots then select Top or bottom
- In Number of Result Enter 10 and select the **Top count** .



4. State With Crop Production

- Select the Map in choose visualization and in fields select “State_Name” for Location and “State_Name and Crop” for Location Color.
- Click three dots in the Crop then select filter and choose particular crop that you want then click done.



5. State With The Crop Production Along With Season(Text Table)

- Select the table in choose visualization and in fields select “State_Name and Crop(sort : Grapes)” for Columns this is for Table 1
- Again Select the table in choose visualization and in fields select “Crop(sort : Grapes)and Season” for Columns this is for Table 2

The screenshot shows a data visualization tool interface. On the left, a sidebar displays a search bar and a list of fields under the heading "Selected sources /". The fields listed are: State_Name, District_Name, Crop_Year, Season, Crop, Area, and Production. The main workspace contains two tables side-by-side. The left table is titled "State_Name and Crop" and the right table is titled "Season and Crop". Both tables have "Crop" as a common column. The left table also has "State_Name" and the right table also has "Season". The interface includes a top toolbar with various icons and a right panel with "Columns" and "Local filters" sections.

Crop	State_Name
Andhra Pradesh	
Assam	
Bihar	
Chandigarh	
Chhattisgarh	
Dadra and Nagar H...	
Gujarat	

Crop	Season
Gram	Kharif
	Rabi
	Whole Year
	Winter