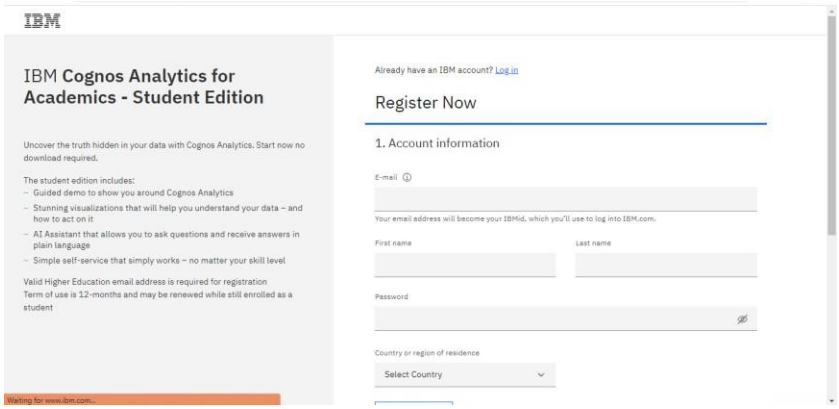
Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID35537
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	10 Marks

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, season and 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 Data Filters	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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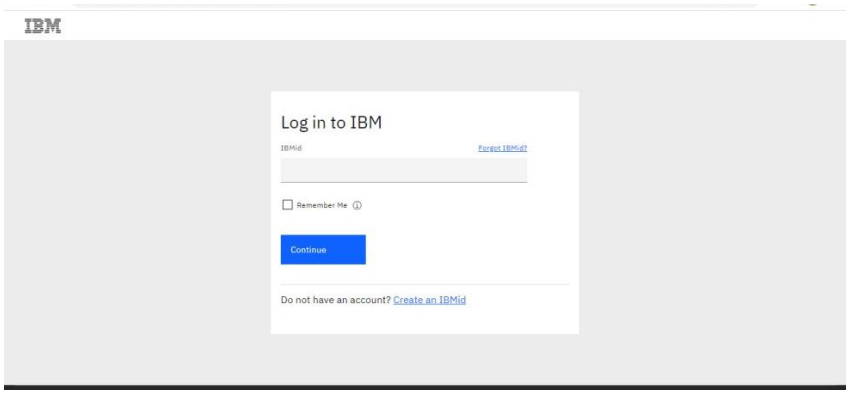
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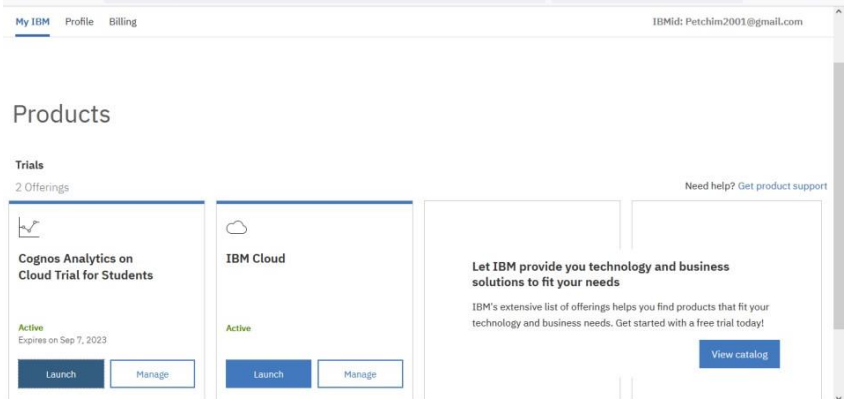
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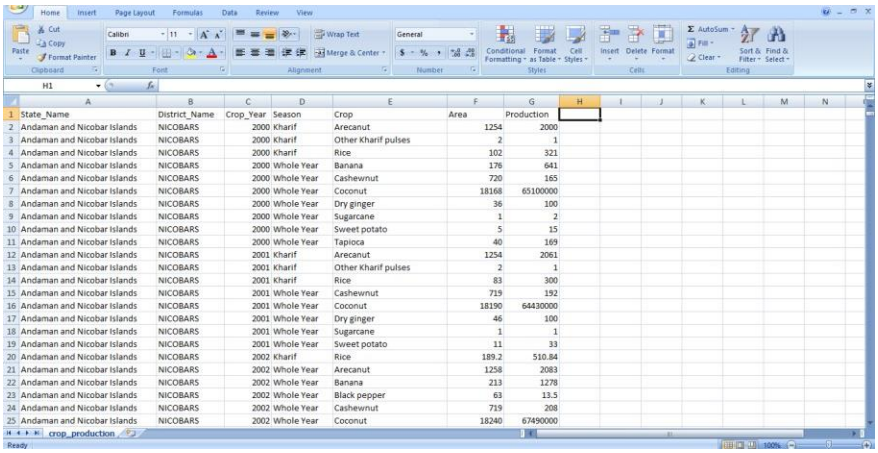
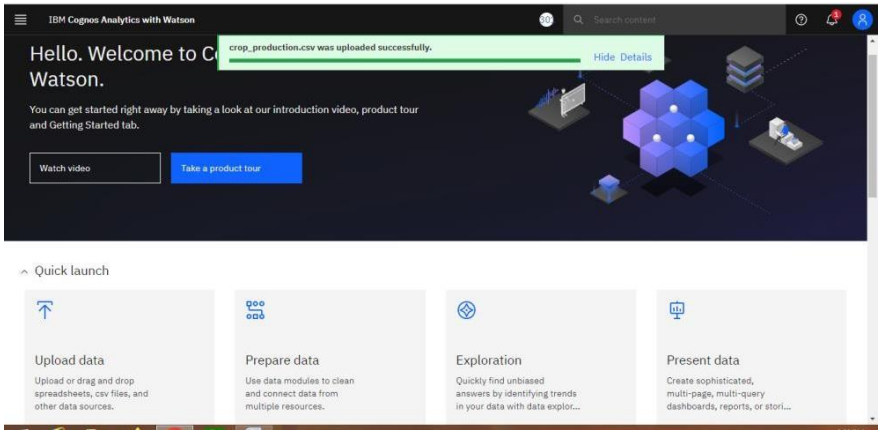
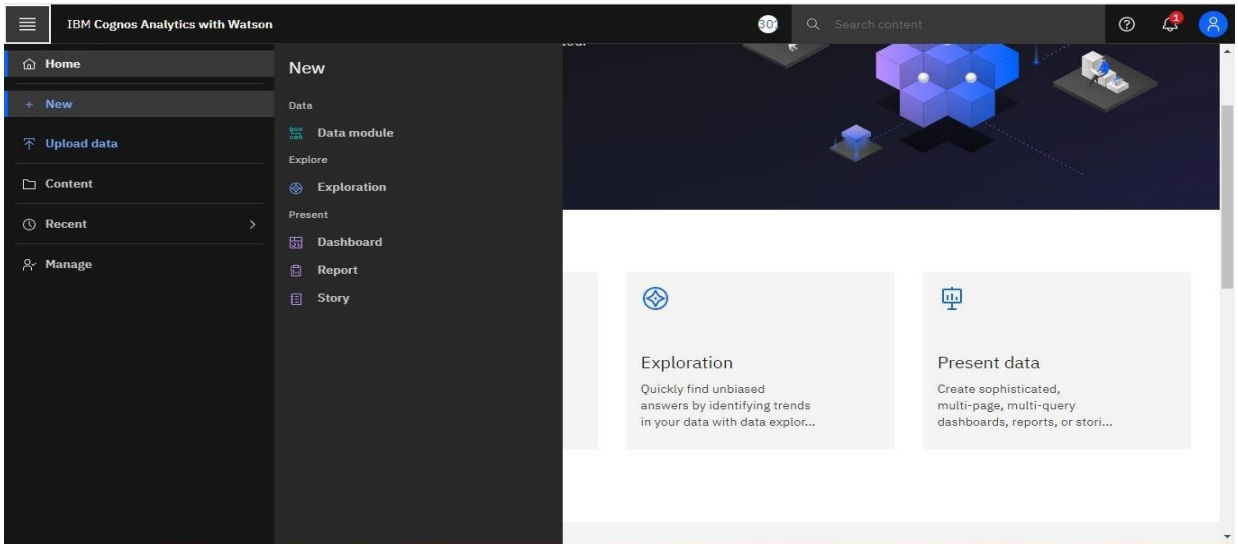


State_Name	District_Name	Crop_Year	Season	Crop	Area	Production
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Arecanut	1254	2000
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Other Kharif pulses	2	1
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice	102	321
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Banana	176	641
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Cashewnut	720	165
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Coconut	18168	65100000
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Dry ginger	36	100
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sugarcane	1	2
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sweet potato	5	15
Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Tapioca	40	169
Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Arecanut	1254	2061
Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Other Kharif pulses	2	1
Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Rice	83	300
Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Cashewnut	719	192
Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Coconut	18190	64430000
Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Dry ginger	46	100
Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Sugarcane	1	1
Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Sweet potato	11	33
Andaman and Nicobar Islands	NICOBARS	2002	Kharif	Rice	189.2	510.84
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Arecanut	1258	2083
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Banana	213	1278
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Black pepper	63	13.5
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Cashewnut	719	208
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Coconut	18240	67490000

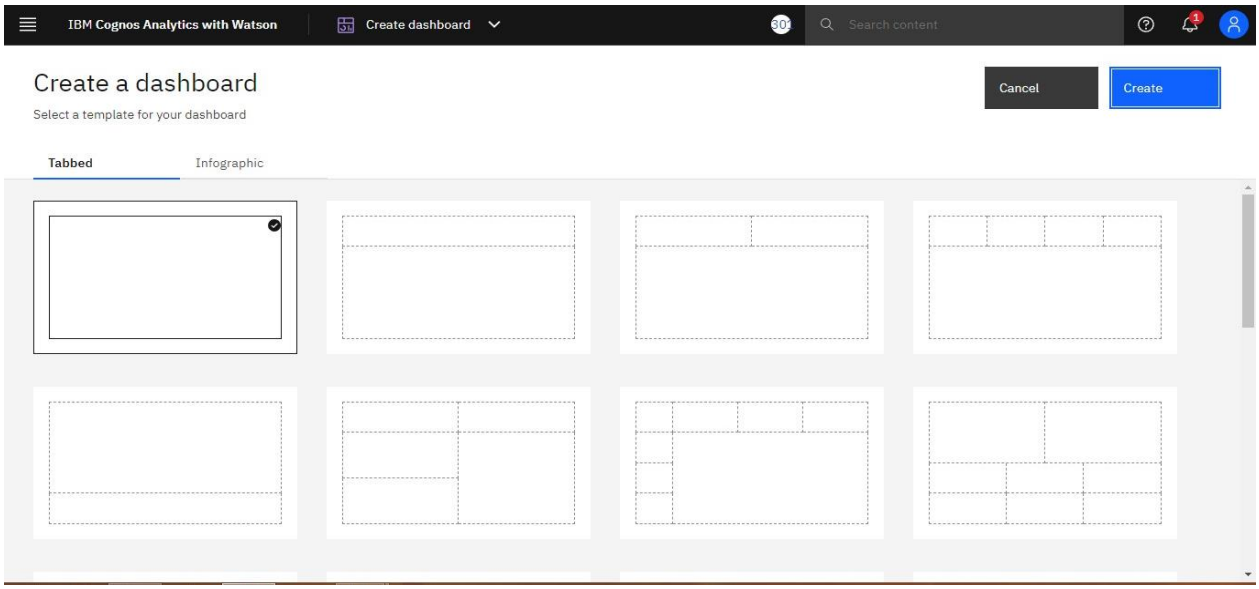


VISUALISATION

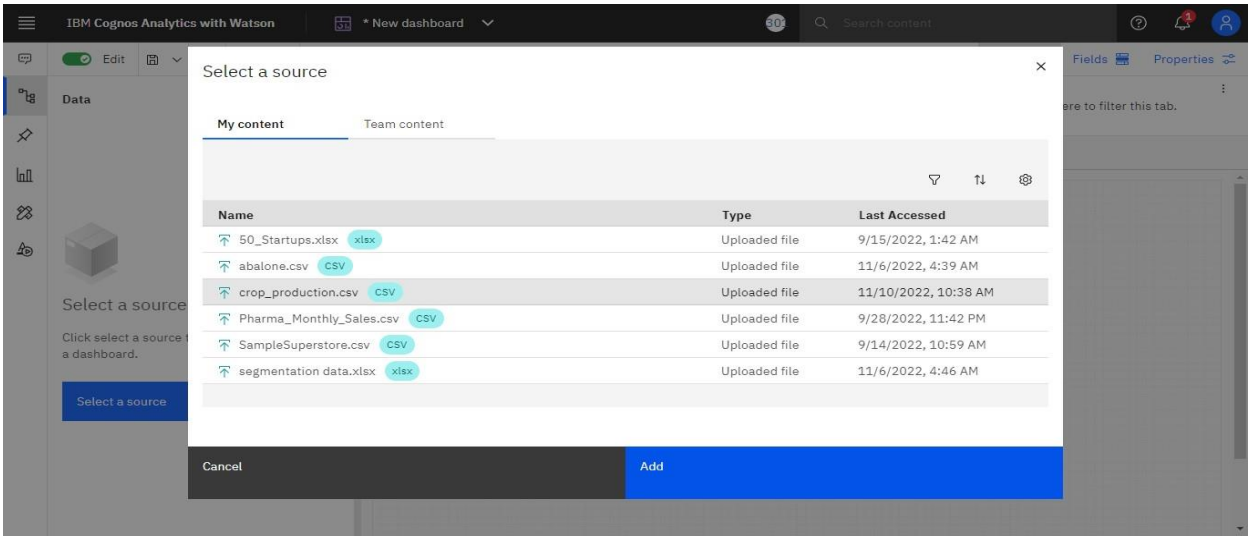
- Login to IBM Cognos then in open menu click **New -> Dashboard .**



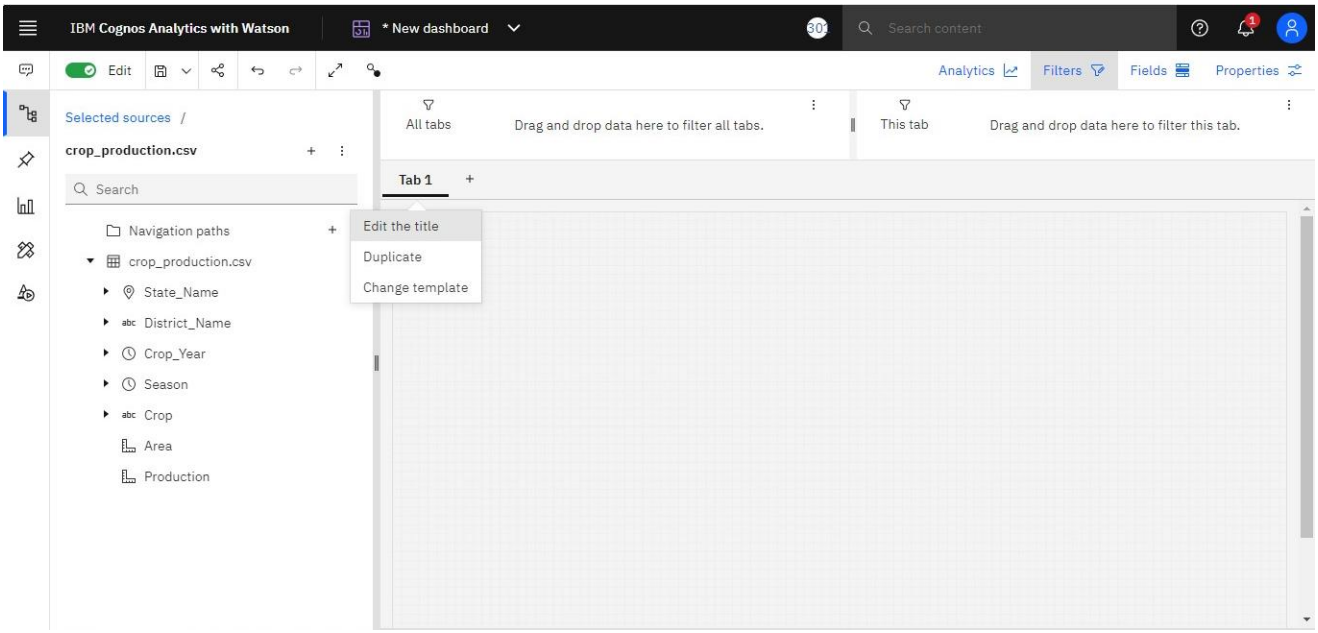
- Select a template for your dashboard and click create.



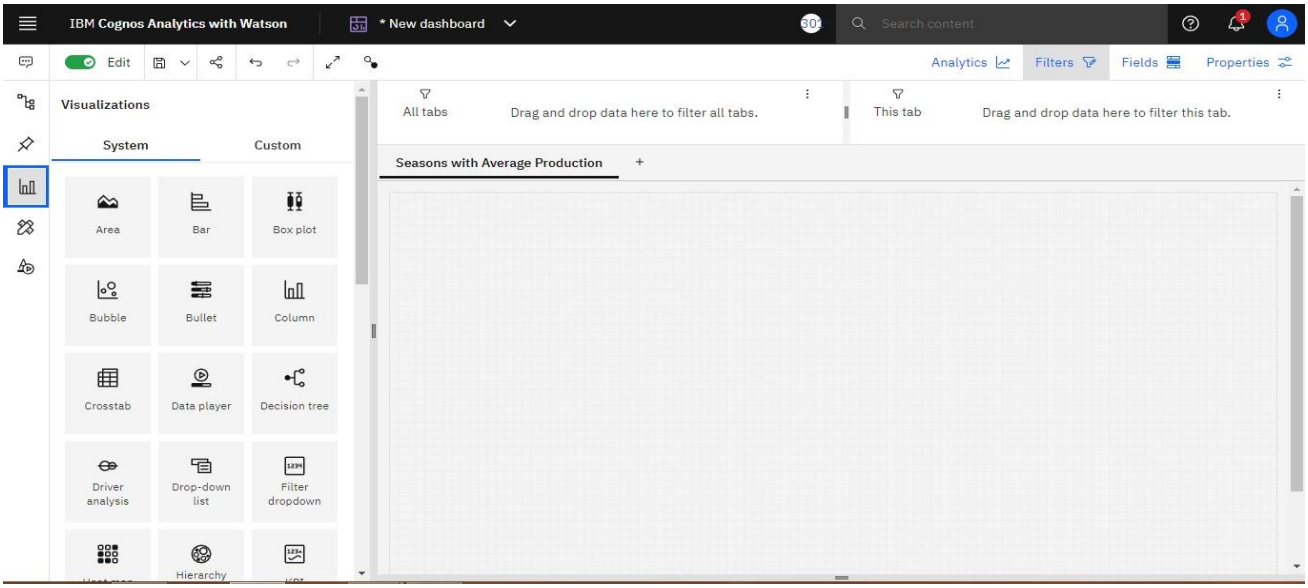
- Click the select a source then select the **crop_production.csv** dataset under **My content** tab and click **Add**



- Rename the tab title

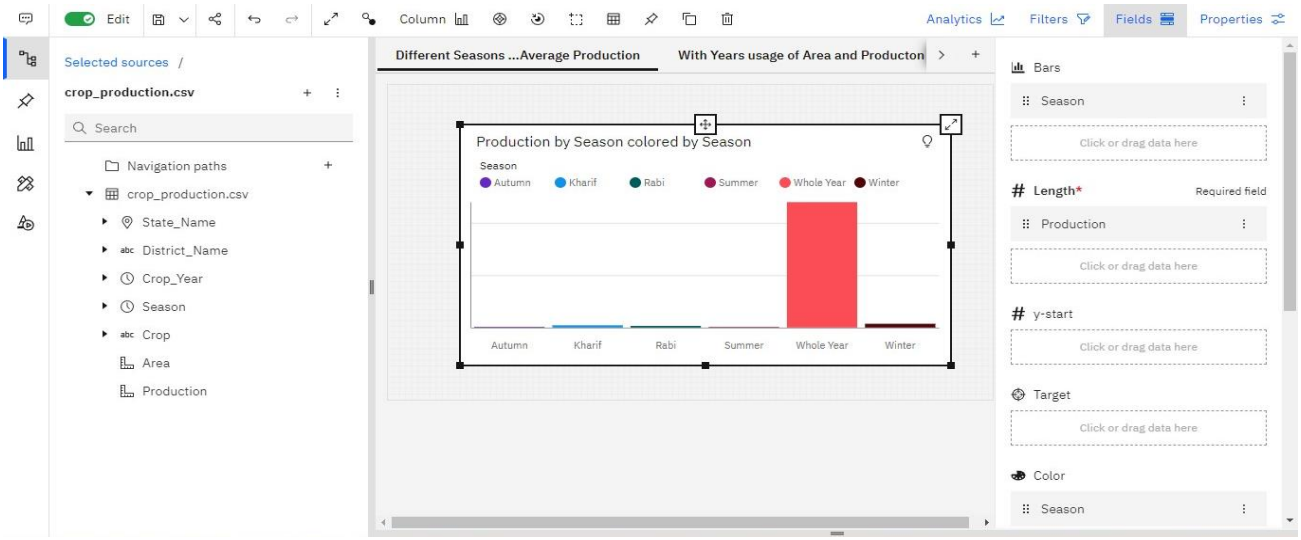


- Select the visualizations and select the system you want.



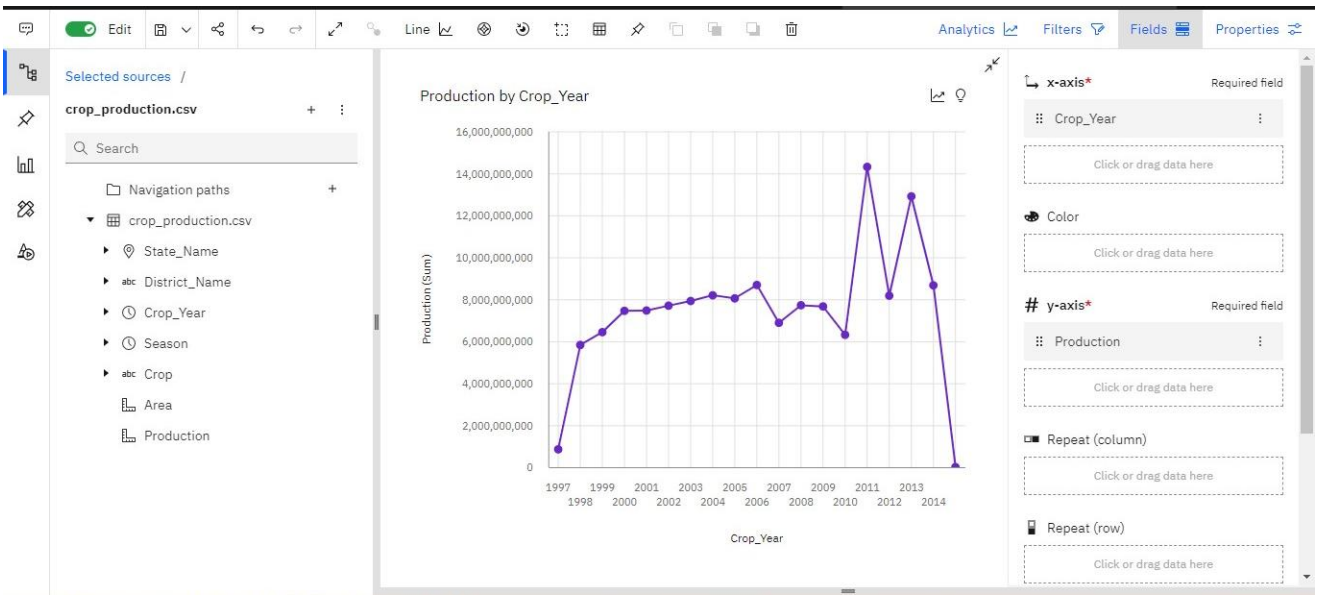
1. Seasons With Average Productions

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



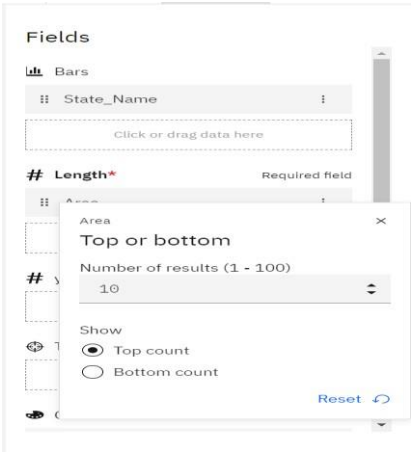
2. With Years Usage Of Area Production

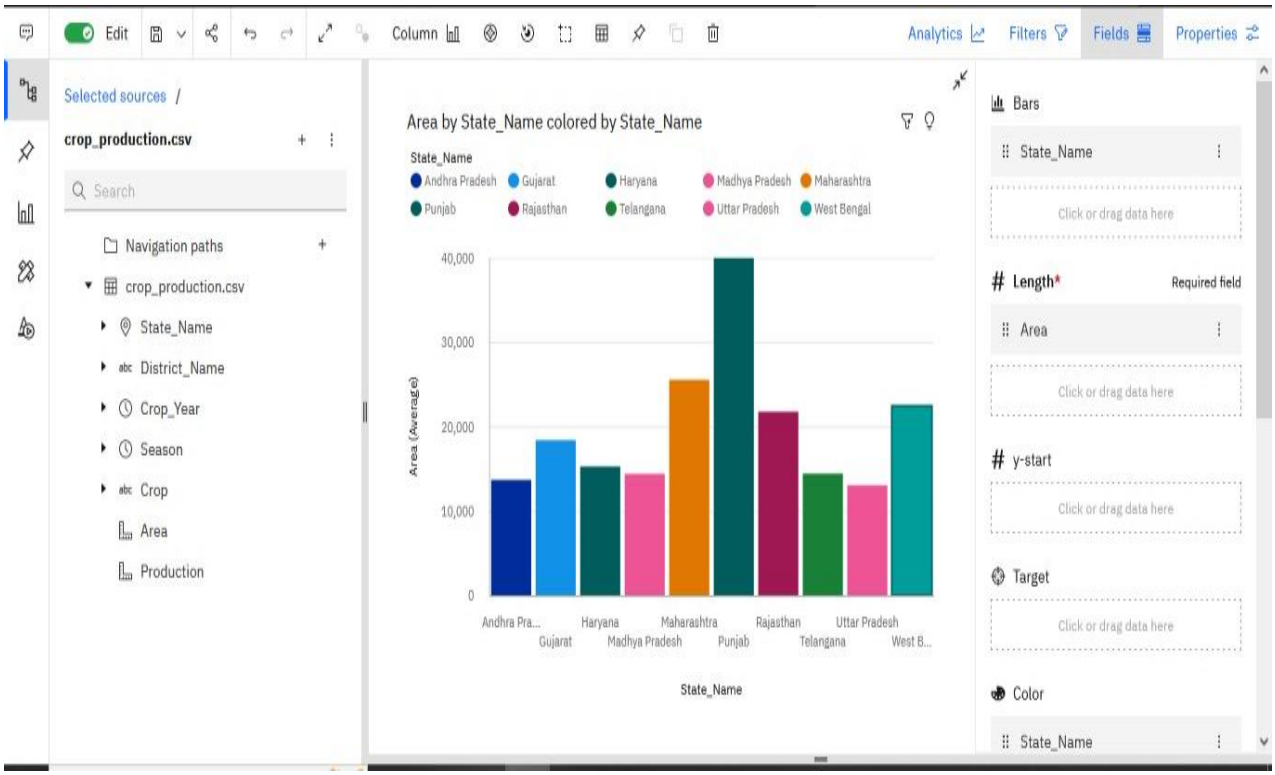
- Select the Area in choose visualization and in fields select "Crop_Year" for X-axisand "Area" for Y-axis.



3. Top 10 States With Most Area

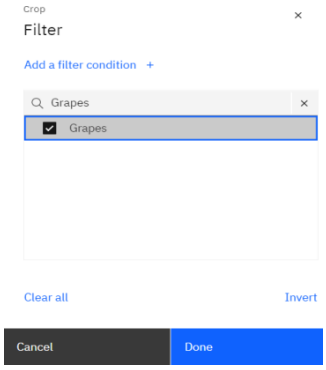
- Select the column in choose visualization and in fields select “State_Name” for Bars ,“Area” for Length “State_Name” for Color.
- Select three dots in Area -> Summarize -> Average.
- In Area click on the three dots then select Top or bottom
- In Number of Result Enter 10 and select the **Top count**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

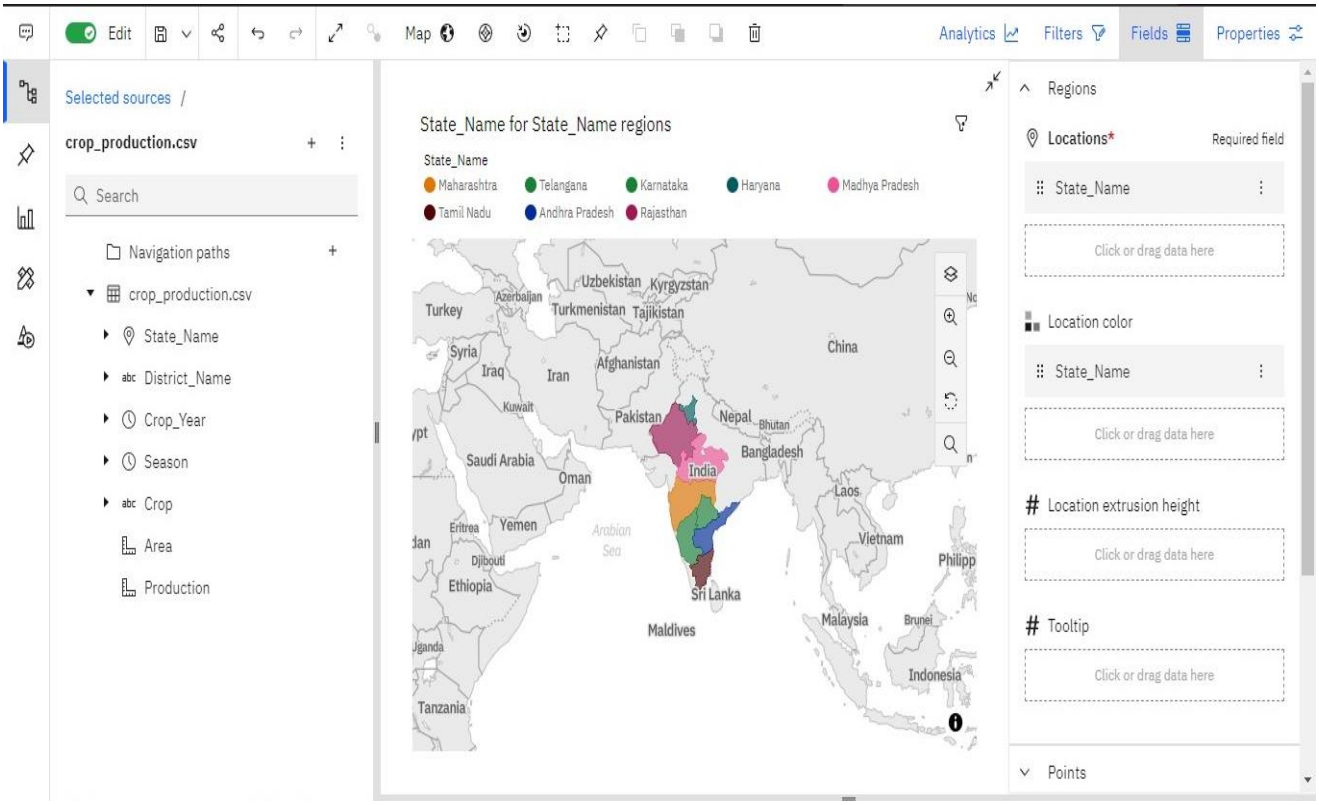




4. State With Crop Production

- Select the Map in choose visualization and in fields select “State_Name” for Locationand “State_Name and Crop” for Location Color.
- Click three dots in the Crop then select filter and choose particular crop that you wantthen 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 andCrop(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