

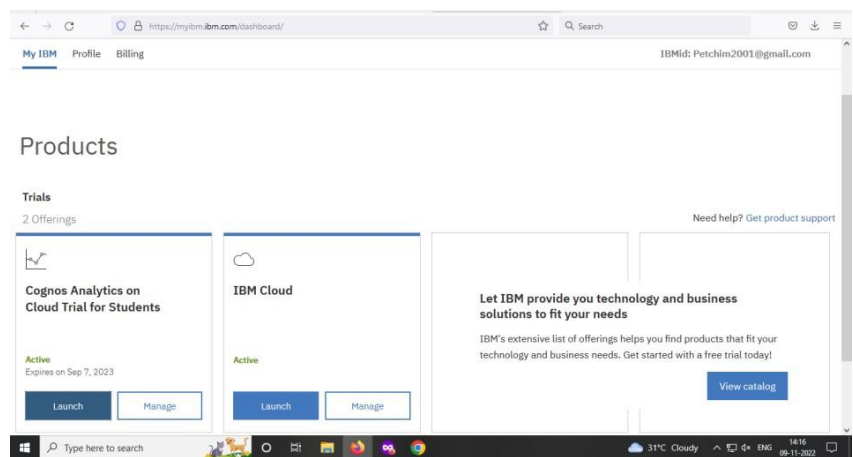
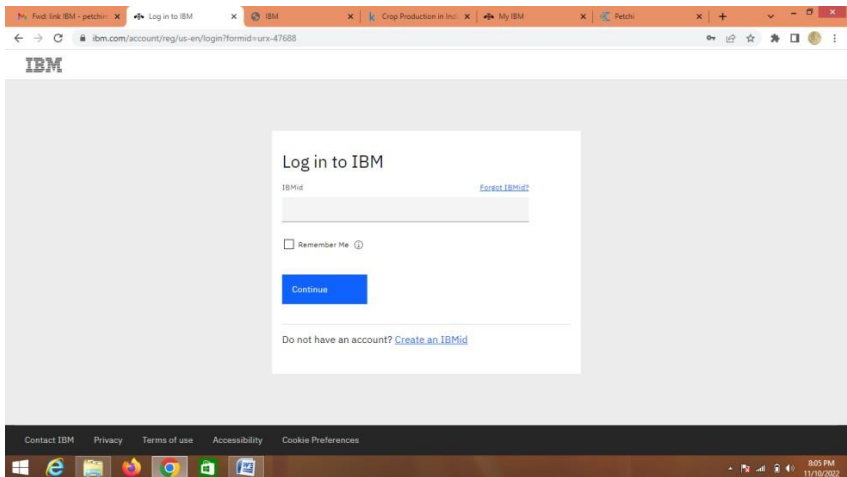
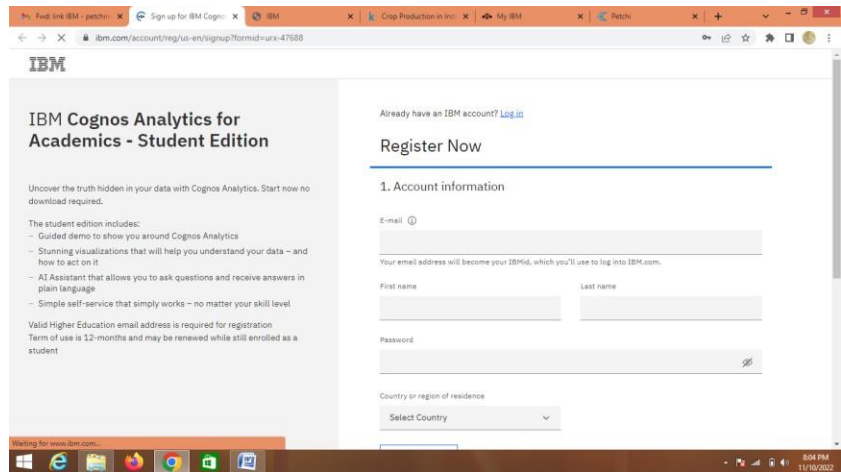
**Project Development Phase**  
**Model Performance Test**

Date	10 November 2022
Team ID	PNT2022TMID31255
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, ethat is by resizing the browser window size as per the test scenario. <b>CROP PRODUCTION DATASET</b> 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)	<b>To connect IBM Db2 database cloud with cognos analytics:</b> 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



crop\_production (Read-Only) - Microsoft Excel

State_Name	District_Name	Crop_Year	Season	Crop	Area	Production
Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Areacanut	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	18166	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	Areacanut	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	Areacanut	1256	2061
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Banana	213	1278
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Black pepper	63	11.3
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Cashewnut	719	208
Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Coconut	18240	67490000

IBM Engine Analytics with Watson

Hello. Welcome to C Watson.

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

crop\_production.csv was uploaded successfully. [Hide Details](#)

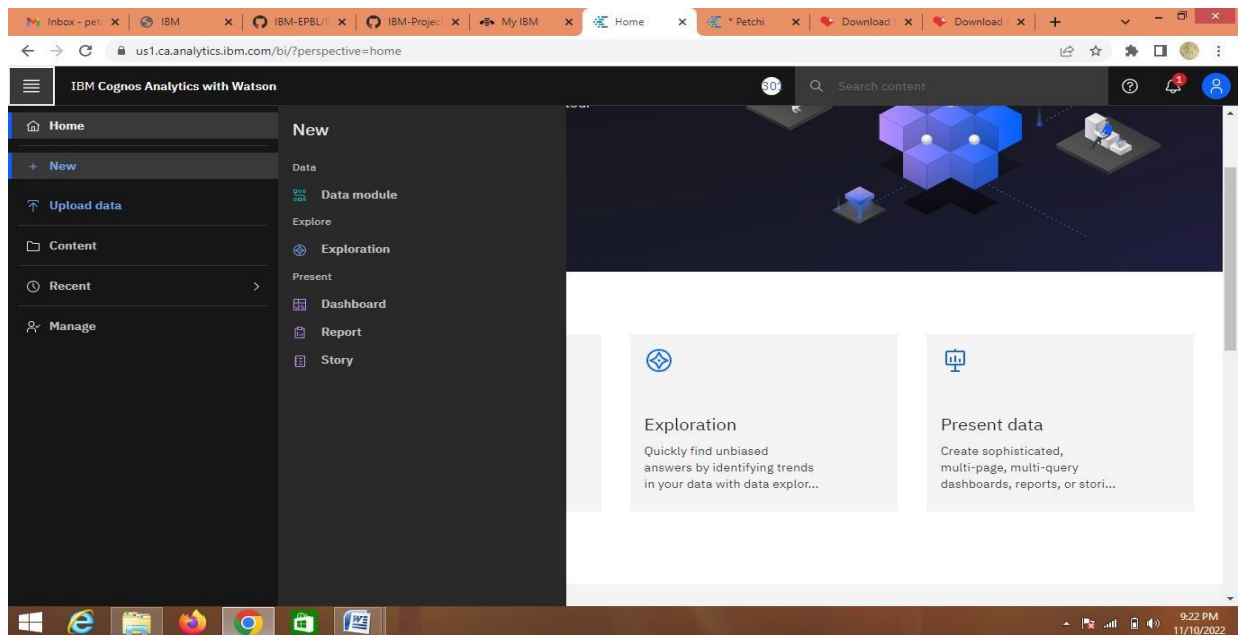
[Watch video](#) [Take a product tour](#)

Quick launch

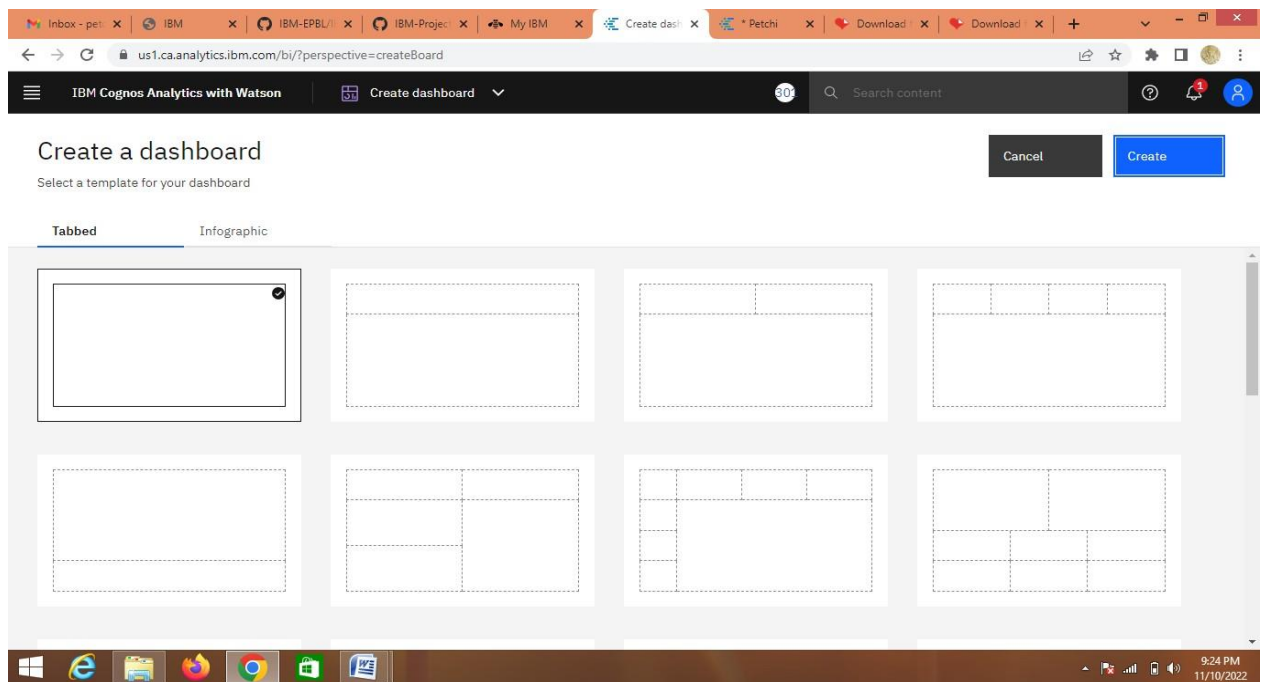
- Upload data**  
Upload or drag and drop spreadsheets, csv files, and other data sources.
- Prepare data**  
Use data modules to clean and connect data from multiple resources.
- Exploration**  
Quickly find unbiased answers by identifying trends in your data with data explor...
- Present data**  
Create sophisticated, multi-page, multi-query dashboards, reports, or story...

## VISUALISATION

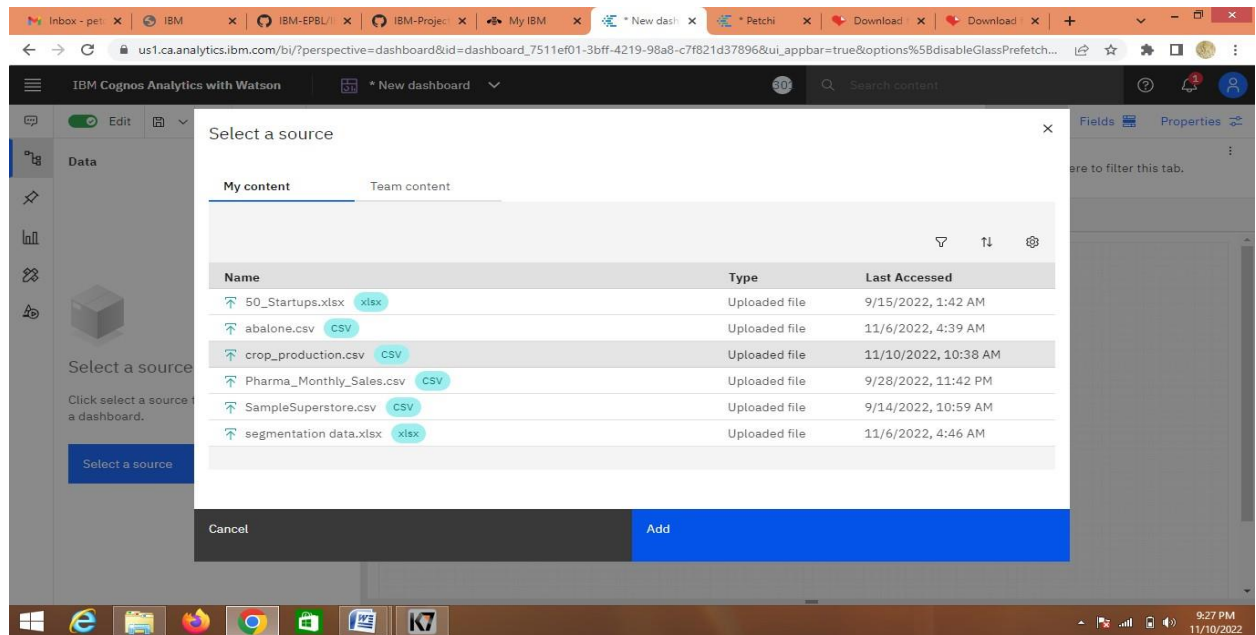
- Login to IBM Cognos then in open menu click **New -> Dashboard**.



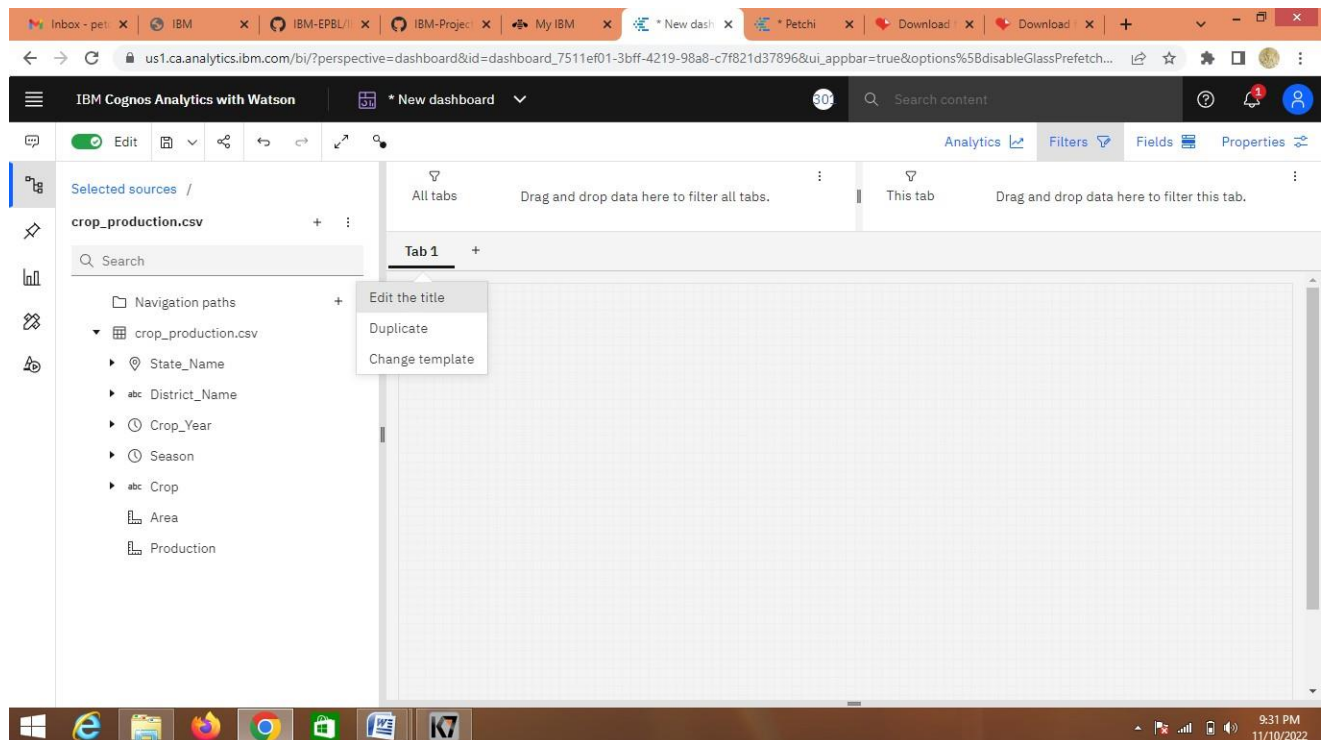
- Select a template for your dashboard and click create.



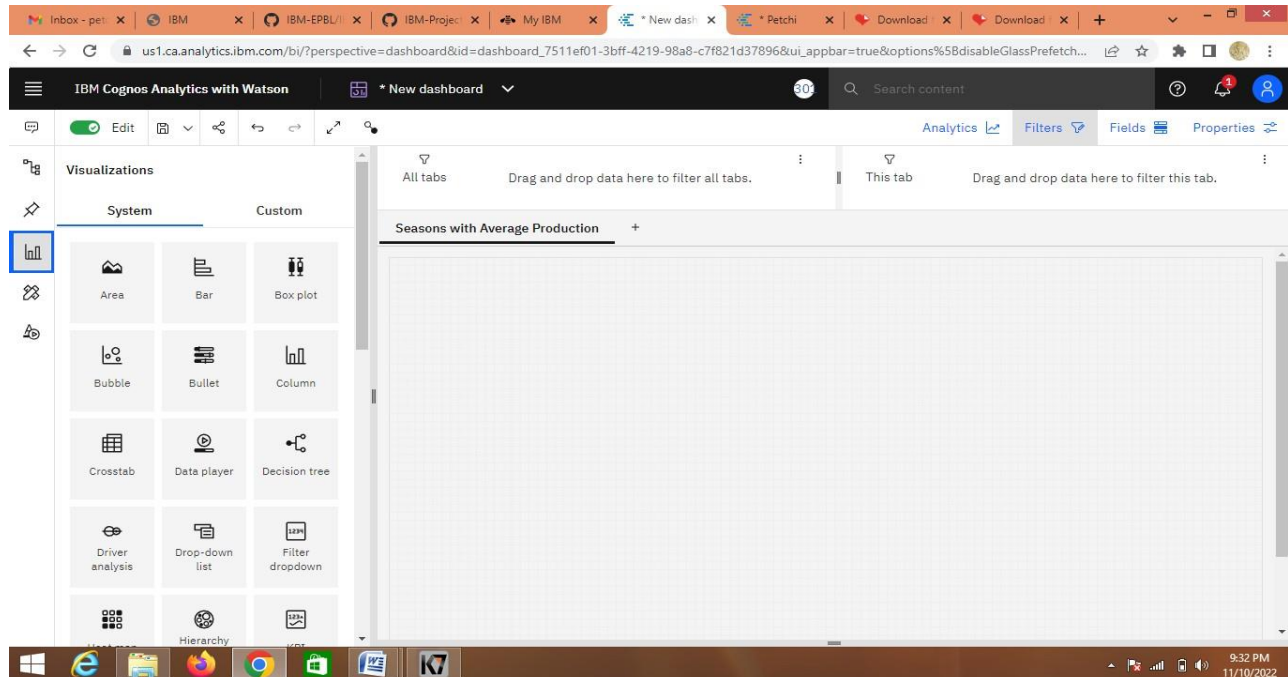
- Click the select a source then select the **crop\_production.csv** dataset under **My content** tab and click **Add**



- Rename the tab title

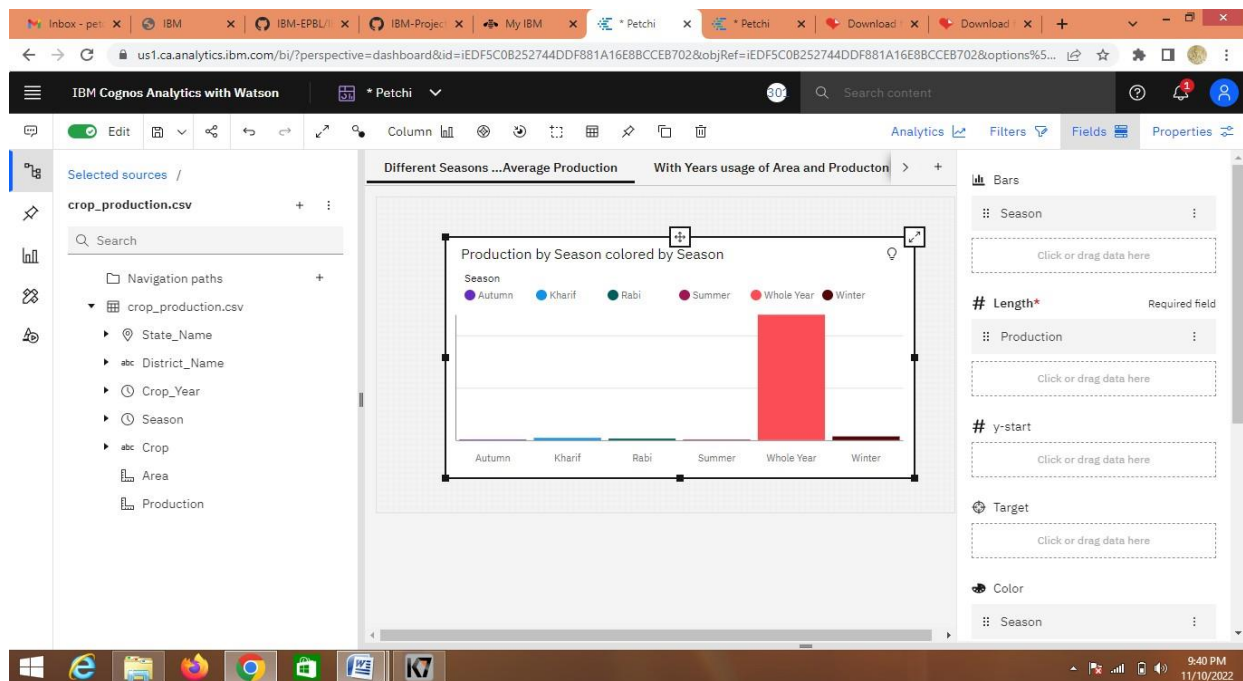


- Select the visualizations and select the system you want.



## 1. Seasons With Average Productions

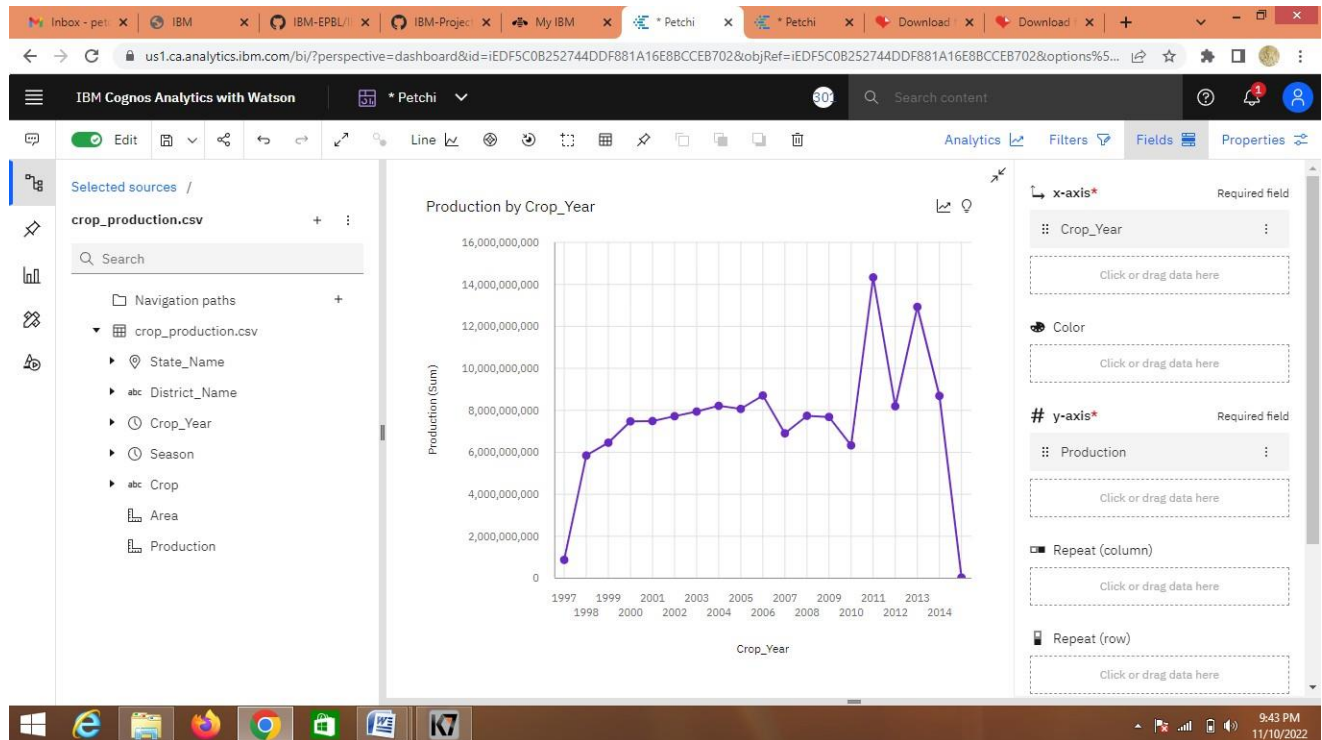
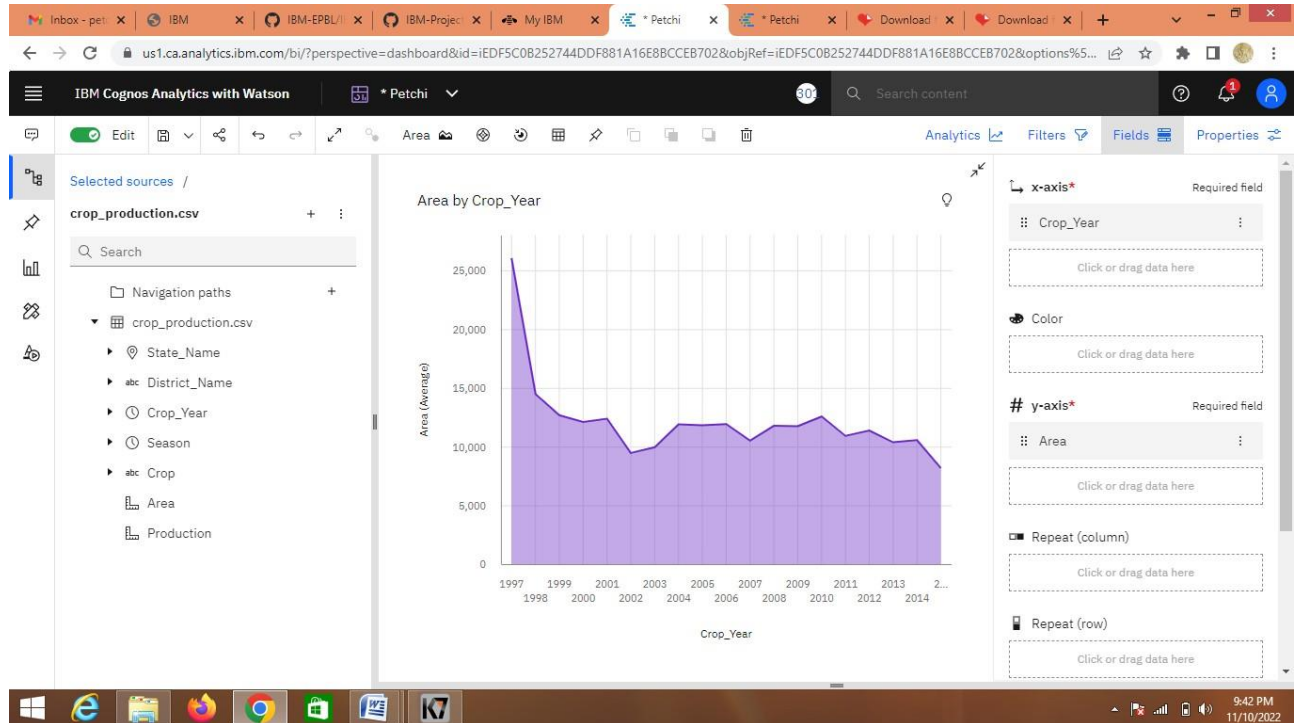
- Select the column in choose visualization and in fields select “Season” for Bars and “Production” for Length.





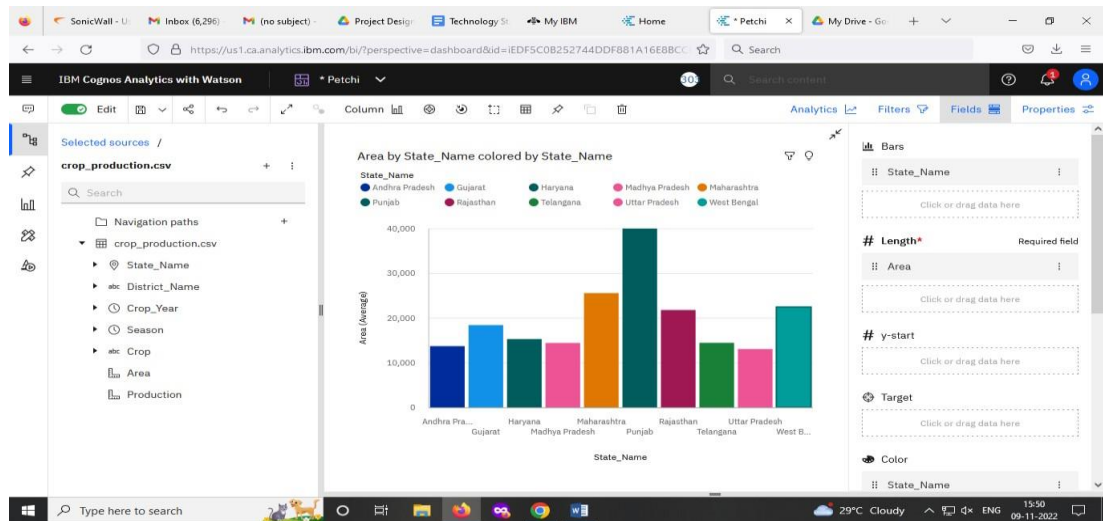
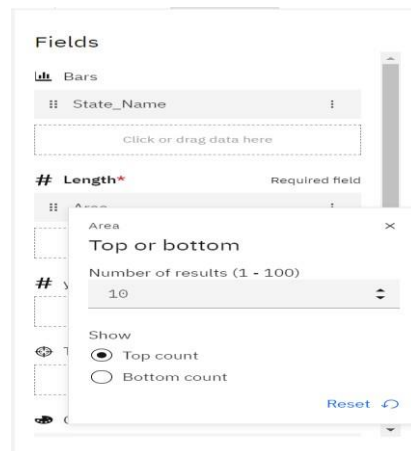
## 2. With Years Usage Of Area Production

- 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

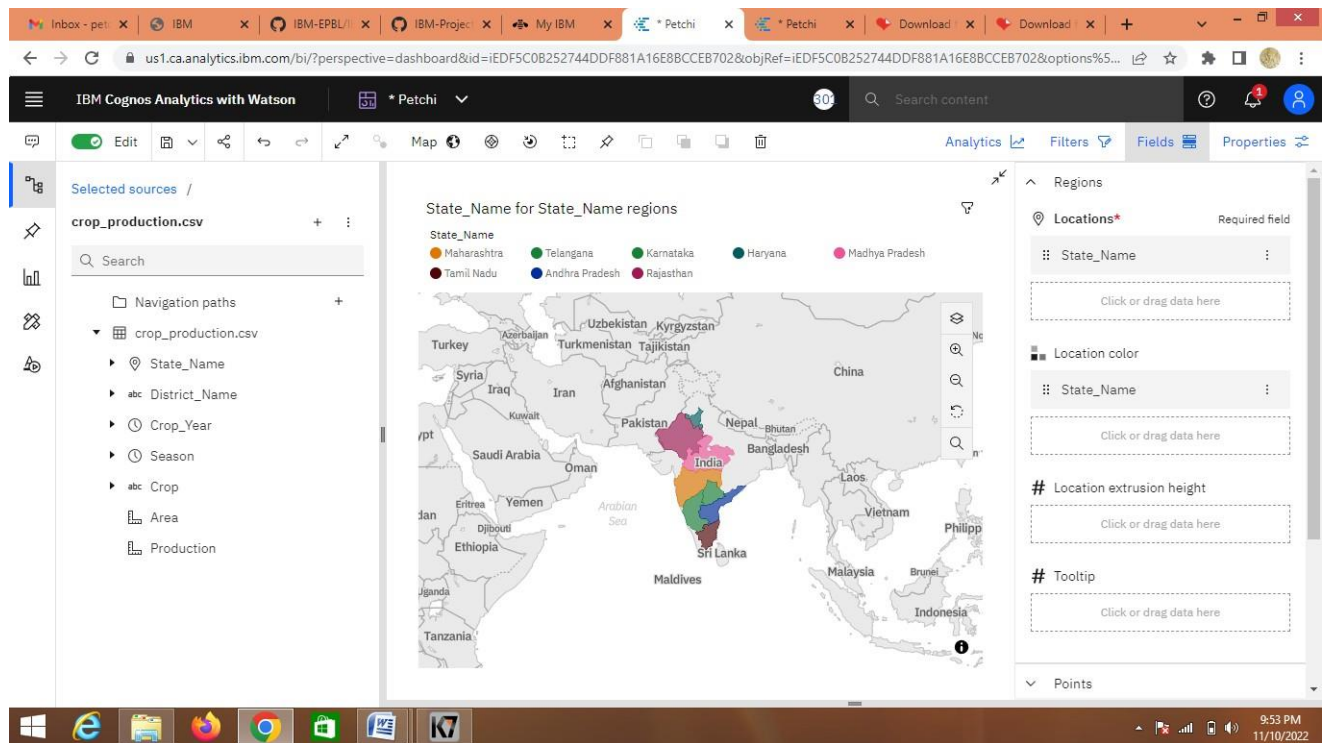
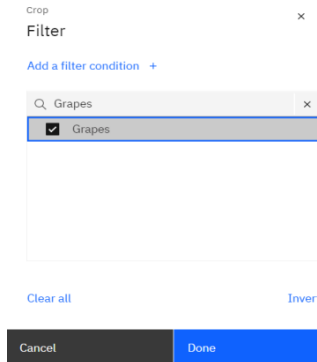
- Select the column in choose visualization and in fields select “State\_Name” for Bars ,“Area” for Length “State\_Name” for Color.
- Select three dots in Area -> Summarize -> Average.
- In Area click on the three dots then select Top or bottom
- In Number of Result Enter 10 and select the **Top count**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





#### 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 displays the IBM Cognos Analytics interface. On the left, the 'Selected sources' pane shows a file named 'crop\_production.csv' with a search bar and a list of fields: State\_Name, District\_Name, Crop\_Year, Season, Crop, Area, and Production. The main workspace contains two tables. The first table, titled 'State with Most Area', has columns 'State\_Name' and 'Crop'. The second table, titled 'State with crop production', has columns 'Crop' and 'Season'. The right-hand 'Columns' pane shows the fields 'Crop' and 'State\_Name' being added to the tables. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 10:04 PM on 11/10/2022.

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

Crop	Season
Gram	Kharif
	Rabi
	Whole Year
	Winter