

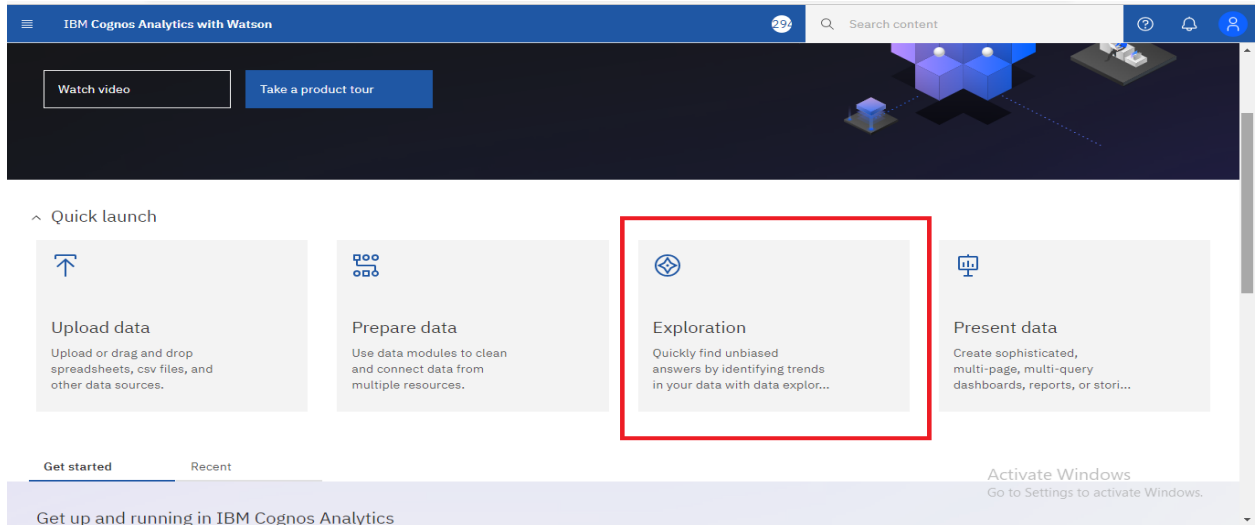
Estimation of crops using data analytics

SPRINT-2

Team ID: PNT2022TMID20578

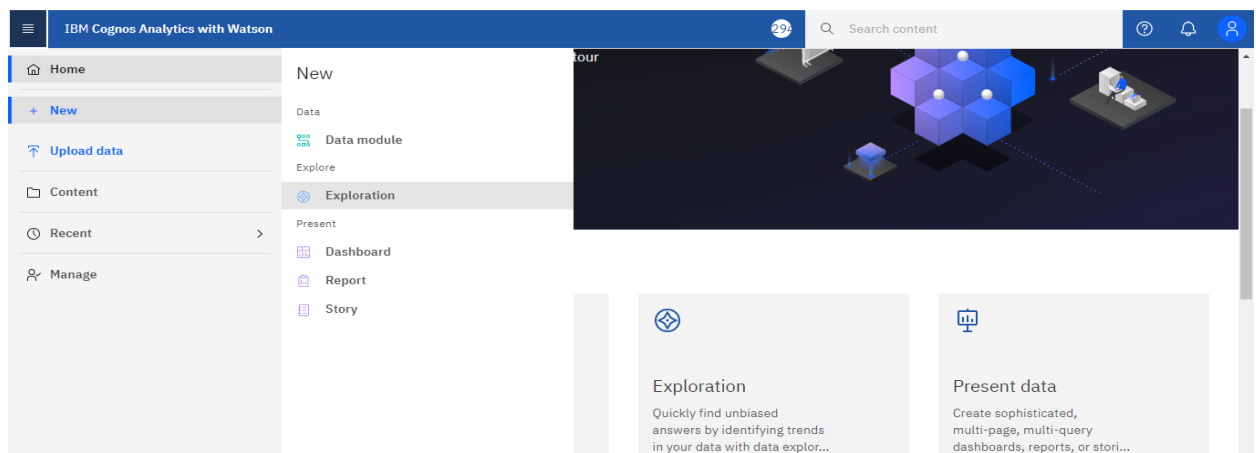
DATA EXPLORATION

1. click the data prepare data icon.

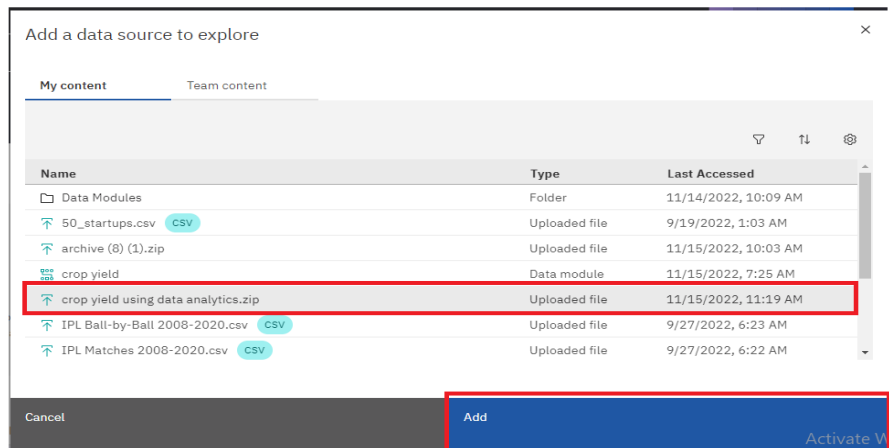


(OR)

Click->New->Exploration

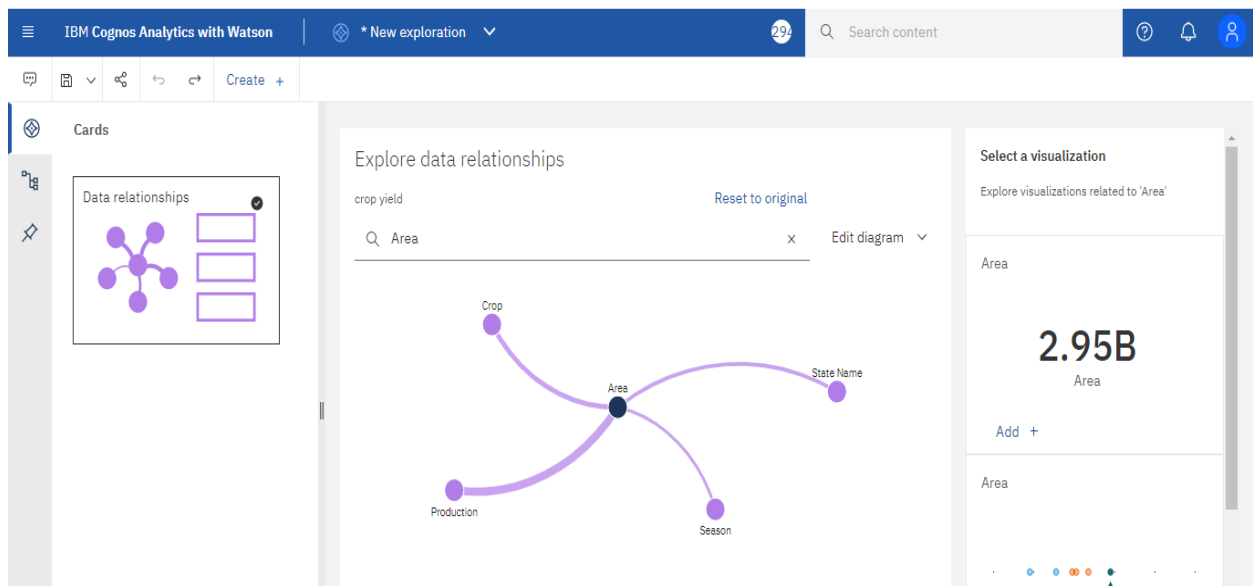


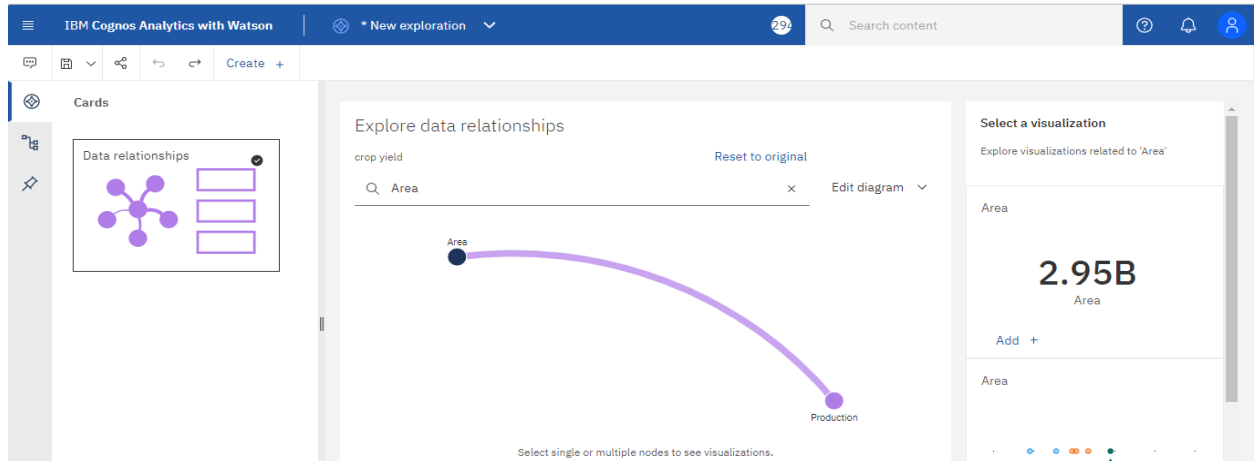
2. Select the file and click add.



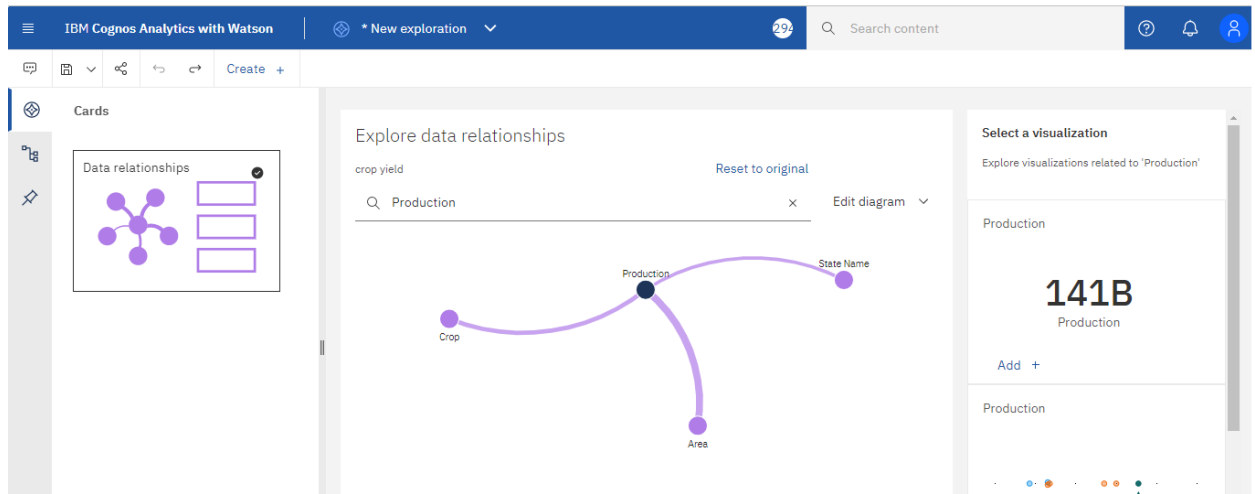
3. Select the data relationships icon

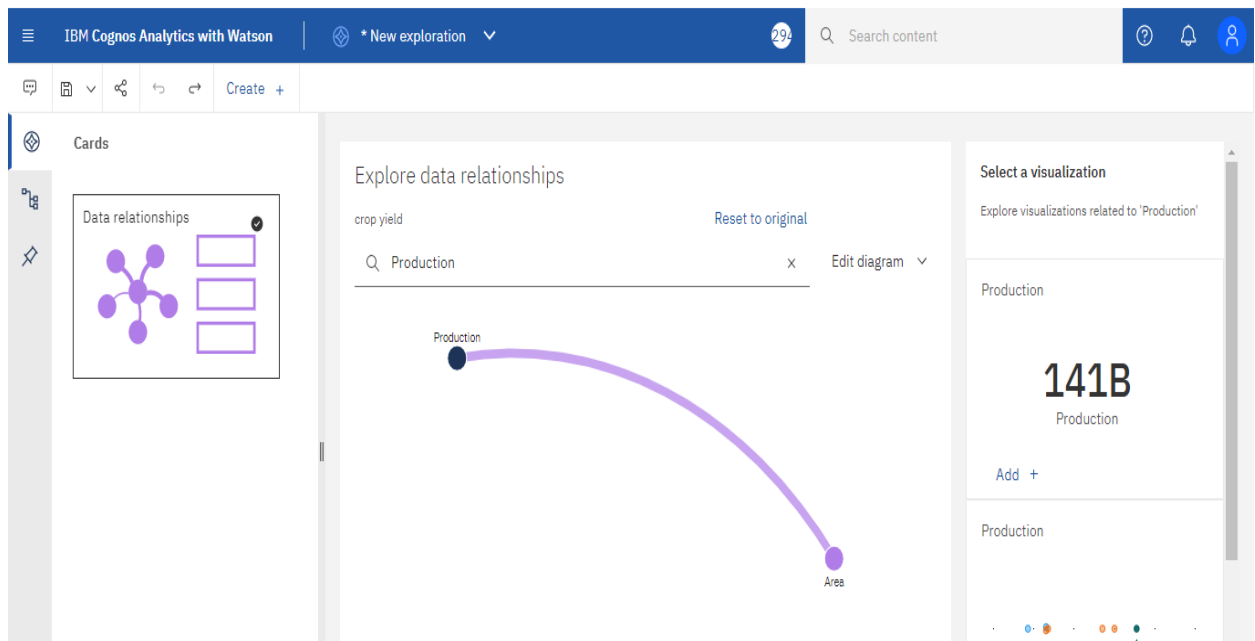
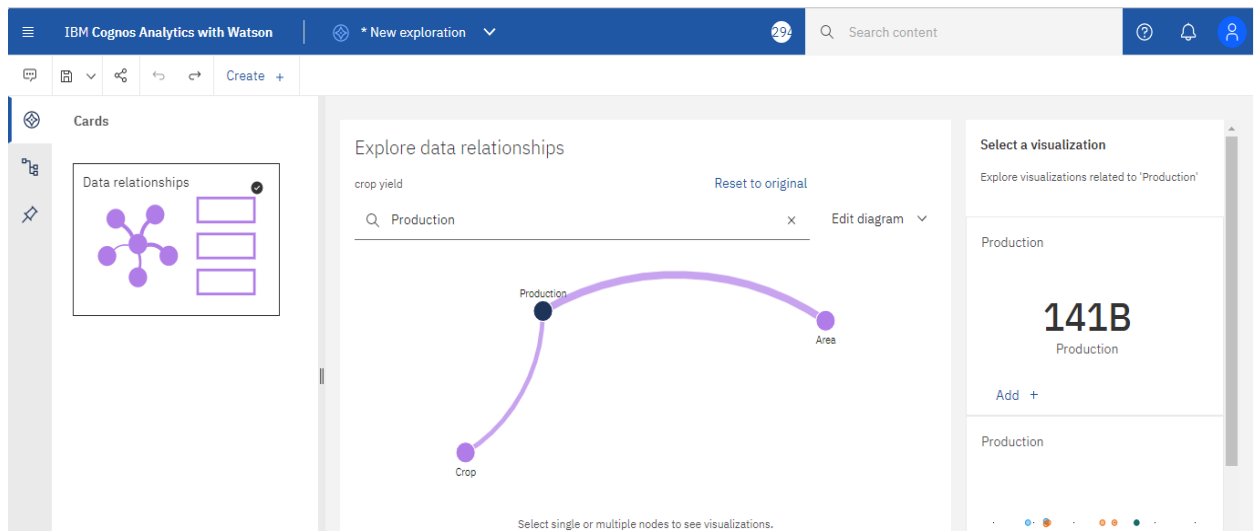
(i) explore the area of the crop by adjusting the range



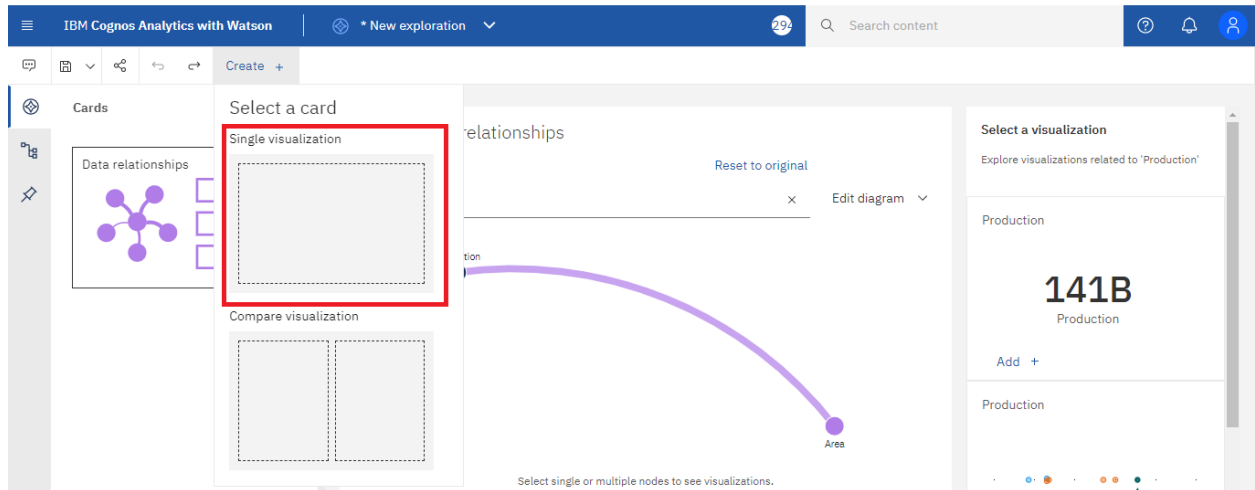


(ii) explore the production of the crop by adjusting the range

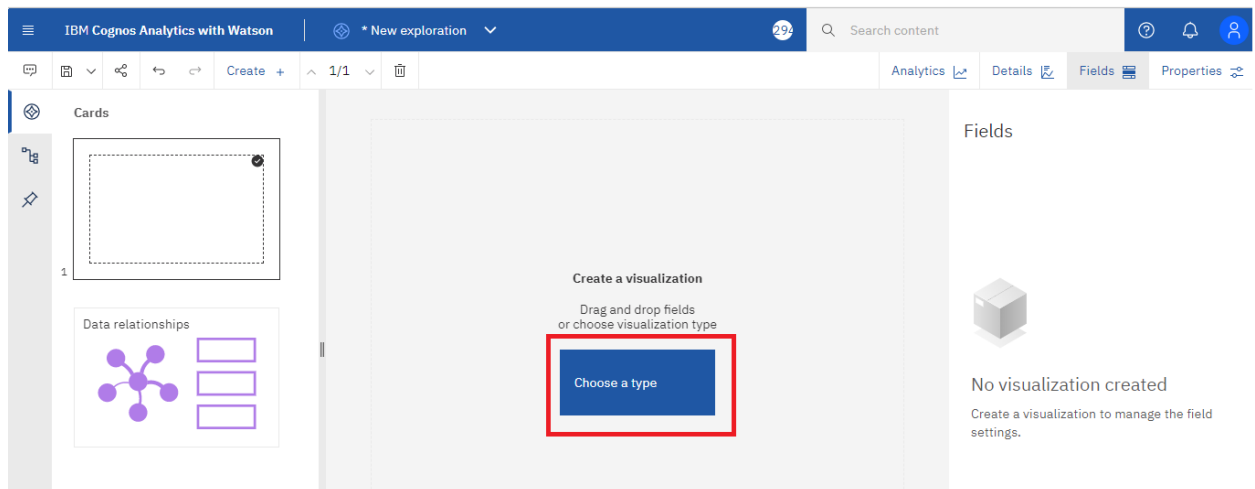




4. Click create -> Single visualization



5. Click choose type



6. Different visualization Type will be available

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, the text 'IBM Cognos Analytics with Watson', a dropdown menu for '* New exploration', a notification badge with '29', a search bar labeled 'Search content', and user profile icons. Below the navigation bar is a toolbar with icons for chat, save, share, undo, redo, and a 'Create +' button. To the right of the toolbar are tabs for 'Analytics', 'Details', 'Fields', and 'Properties'. The main workspace is divided into two panels. The left panel, titled 'Cards', contains a card with a dashed box and a small icon, and another card titled 'Data relationships' showing a network diagram with five nodes and three empty rectangular boxes. The right panel, titled 'Choose visualization type', lists various visualization options categorized into 'Comparison' and 'Parts to whole'. The 'Comparison' category includes Bar, Bullet, Column, Heat map, Line and column, Marimekko, Radar, Radial, and Stacked bar. The 'Parts to whole' category includes Hierarchy bubble, Packed bubble, Pie, and Tree map. A 'Stacked column' option is also visible under the 'Comparison' category.

IBM Cognos Analytics with Watson | * New exploration 29 Search content ? ? ?

Analytics Details Fields Properties

Cards

1

Data relationships

Choose visualization type

Comparison

- Bar
- Bullet
- Column
- Heat map
- Line and column
- Marimekko
- Radar
- Radial
- Stacked bar

Stacked column

Word cloud

Parts to whole

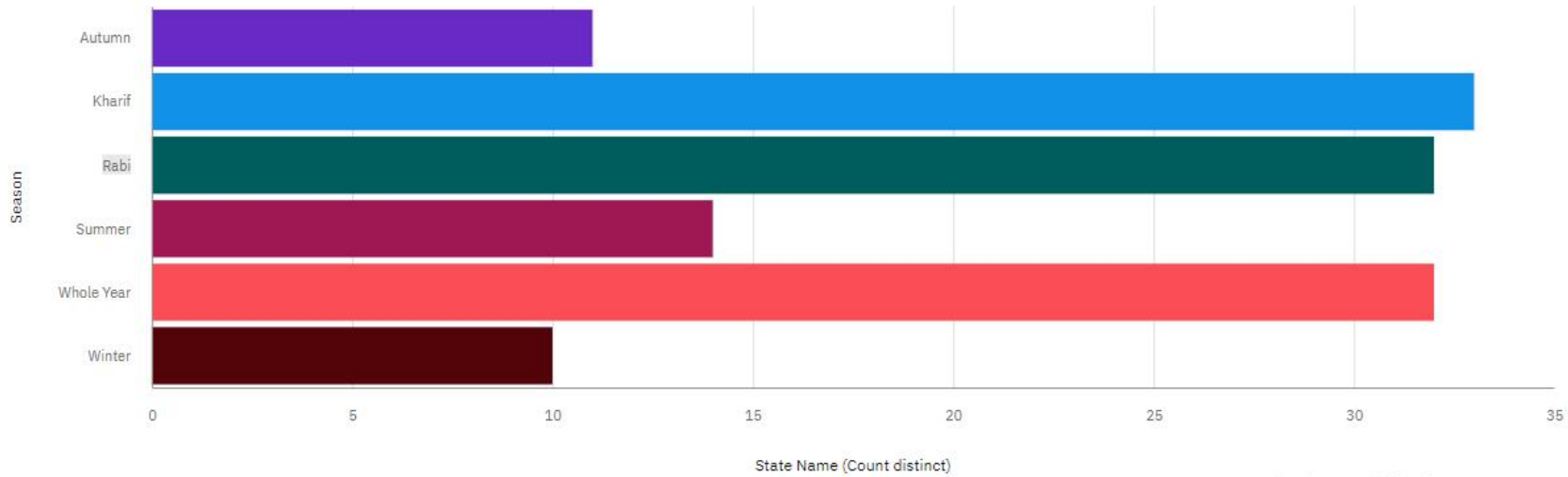
- Hierarchy bubble
- Packed bubble
- Pie
- Tree map

7. Perform different visualization

State Name by Season colored by Season

Season

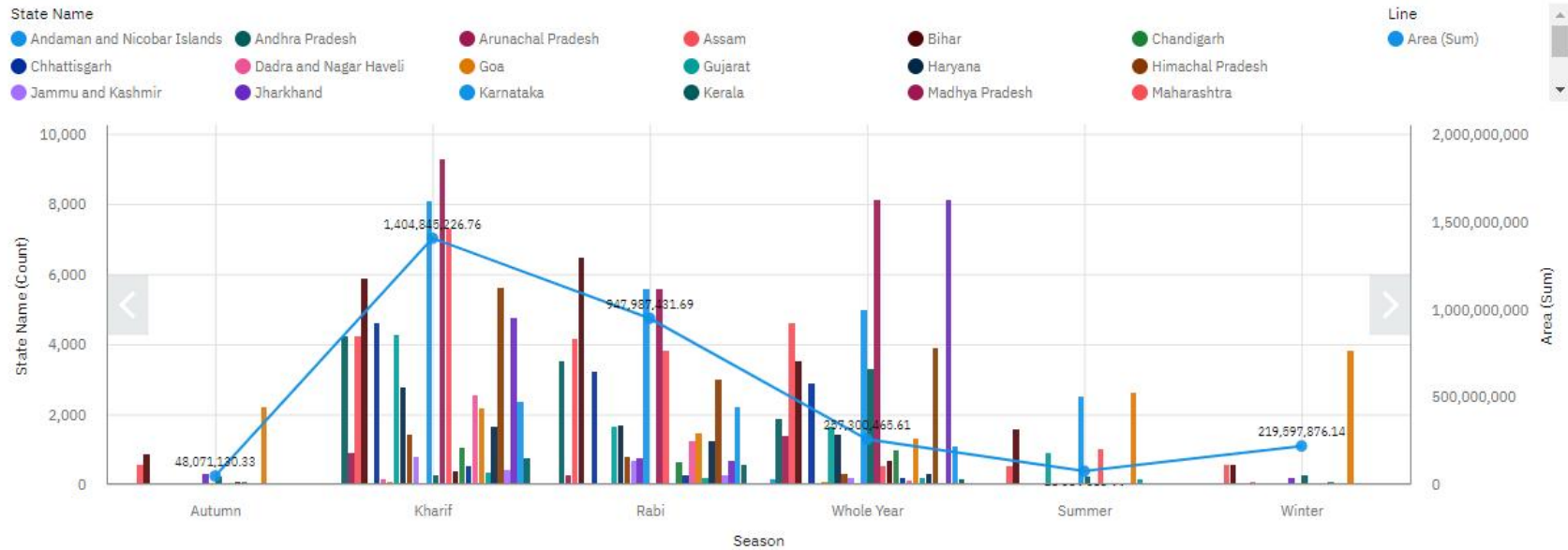
- Autumn
- Kharif
- Rabi
- Summer
- Whole Year
- Winter



Activate Windows

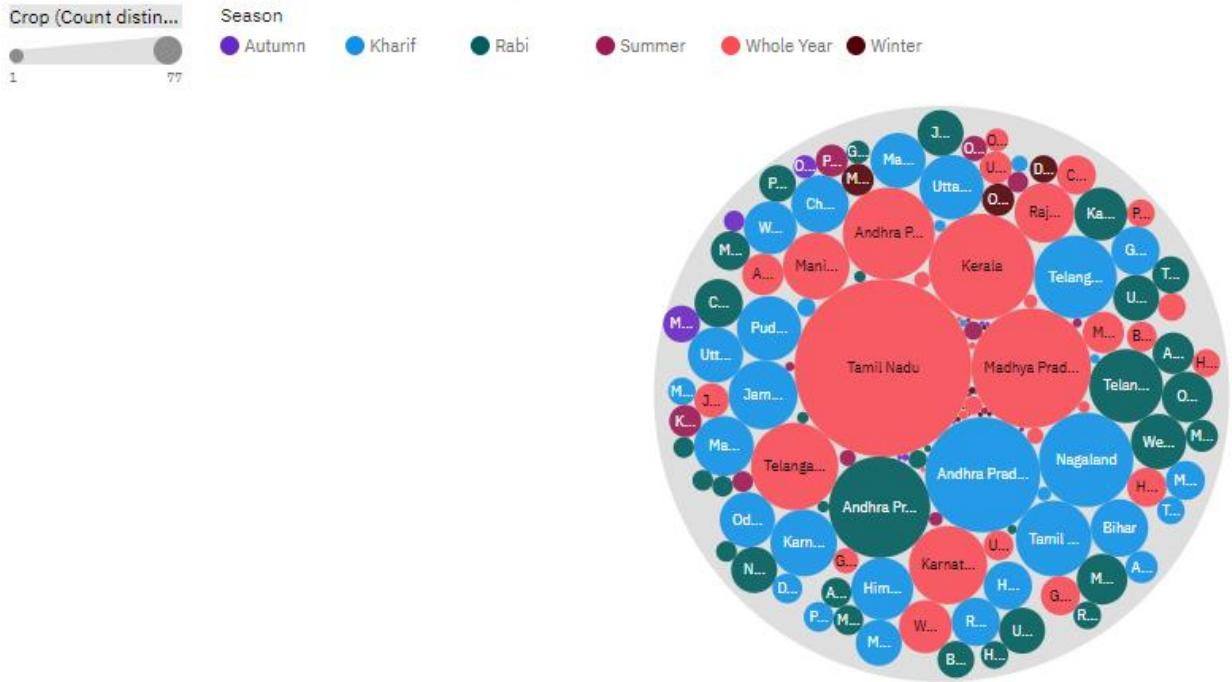
Go to Settings to activate Windows.

Area and State Name for Season colored by State Name

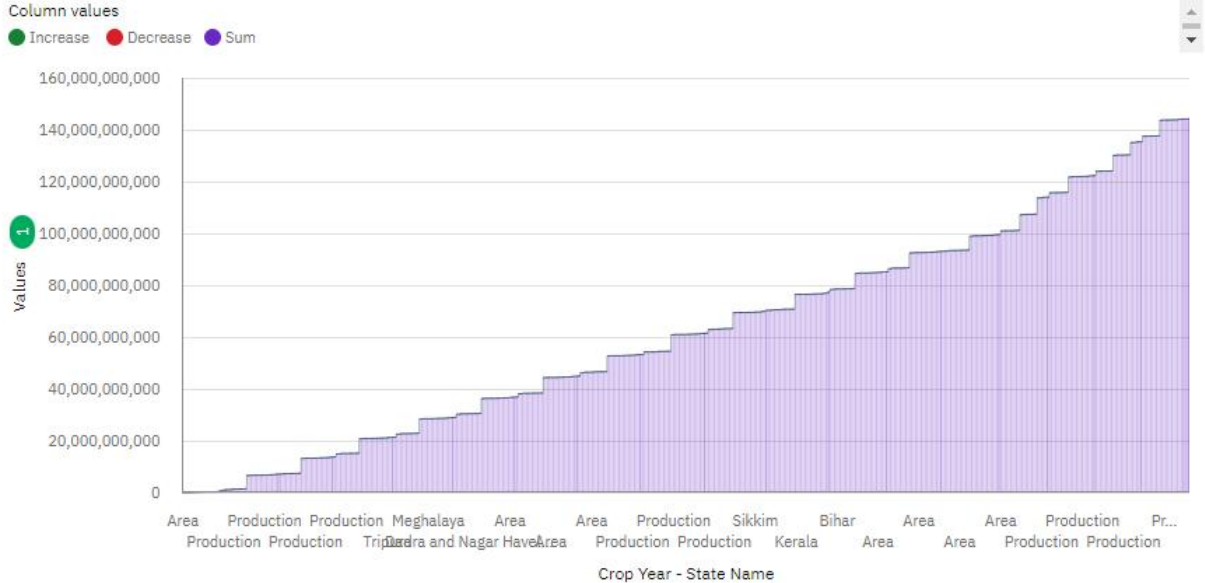


Activate Windows
Go to Settings to activate Windows.

State Name hierarchy colored by Season and sized by Crop



Area and Production for Crop Year and State Name



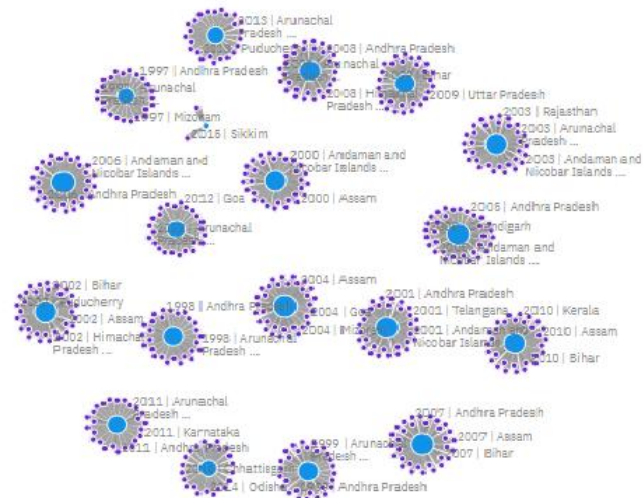
Crop YearState Name to Crop Year

From

● Crop Year - State Name

To

● Crop Year



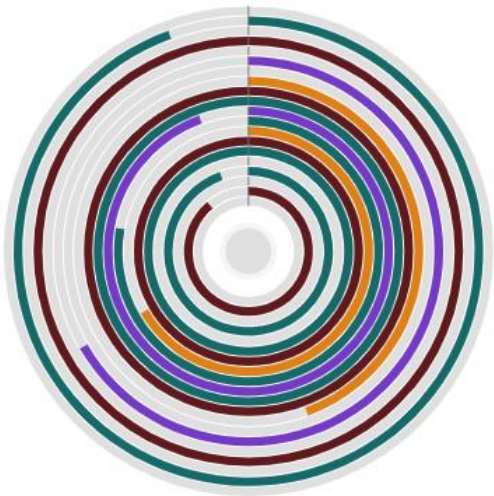
Activate Windows

Go to Settings to activate Windows.

Crop Year by Season colored by State Name

State Name

Andhra Pradesh Bihar Goa Kerala Tamil Nadu



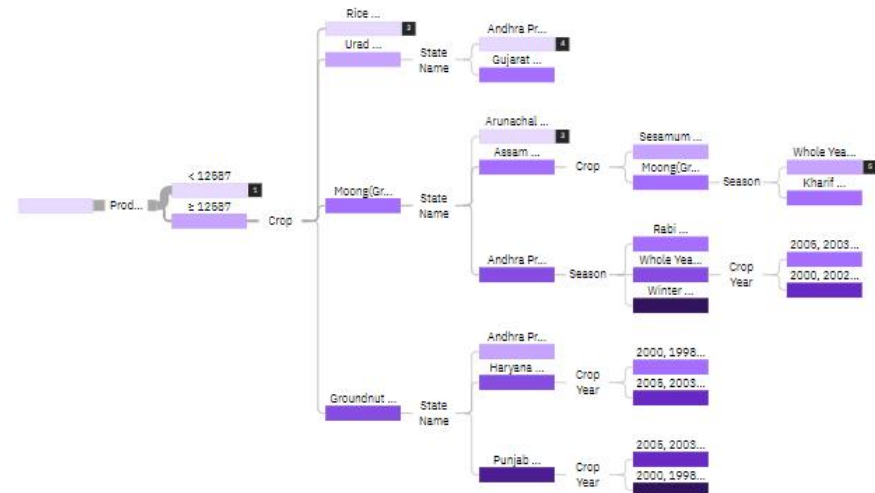
State Name, Crop, District Name, Season and Crop Year

State Name	Season	Crop Year	District Name	Crop
Bihar	Autumn	1997	ARARIA	Rice
			BANKA	
			BEGUSARAI	
			BHAGALPUR	
			BHOJPUR	
			DARBHANGA	
			GAYA	
			GOPALGANJ	
			JEHANABAD	
			KAIMUR (BHABUA)	
			KATIHAR	
			KHAGARIA	
			KISHANGANJ	
			MADHEPURA	
			MADHUBANI	

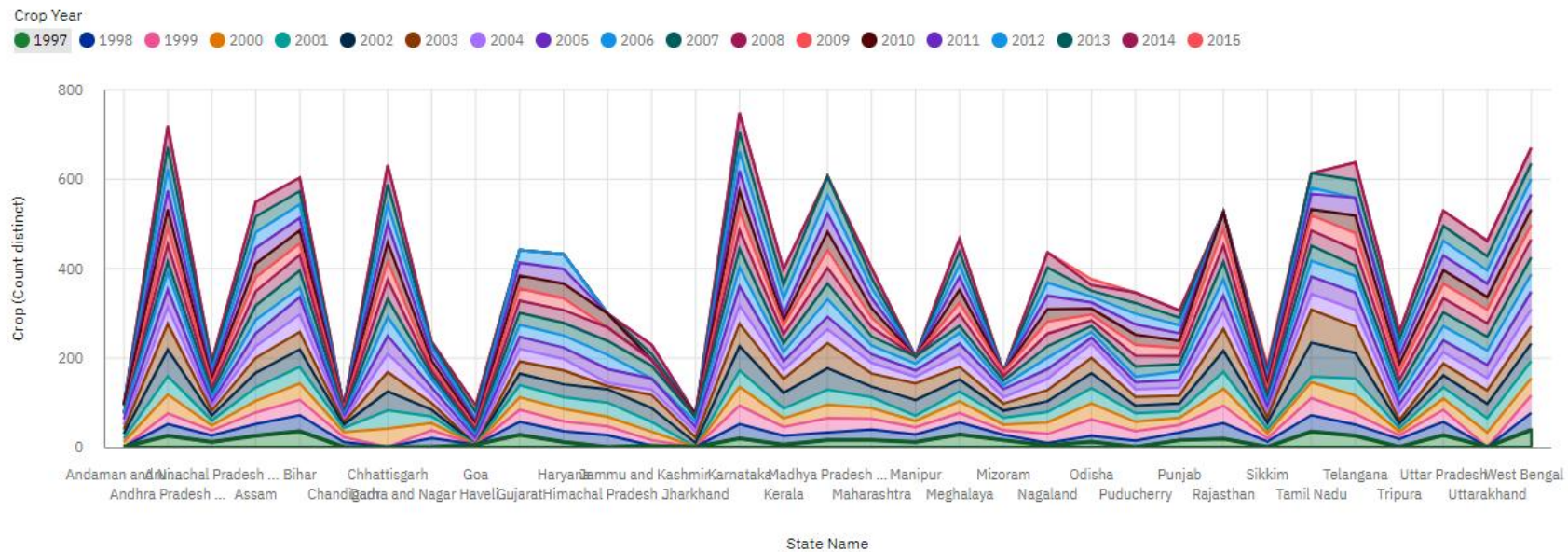
Tree sunburst Tree diagram Rules

Tree diagram

Area

Bottom 5 Bottom 5 

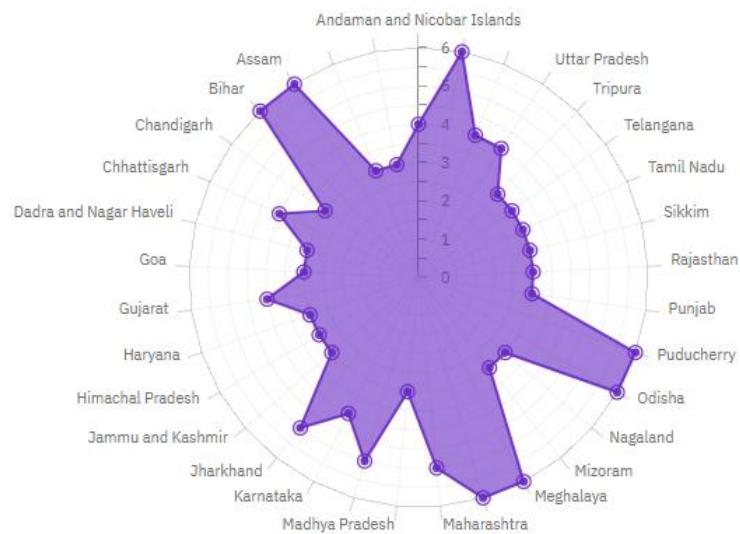
Crop by State Name colored by Crop Year



Activate Windows

Go to Settings to activate Windows.

Season by State Name



Activate Windows
Go to Settings to activate Windows.

State Name compared to Crop for Crop

246K ↑

Crop

33 (+745,630.3%)

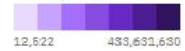
State Name



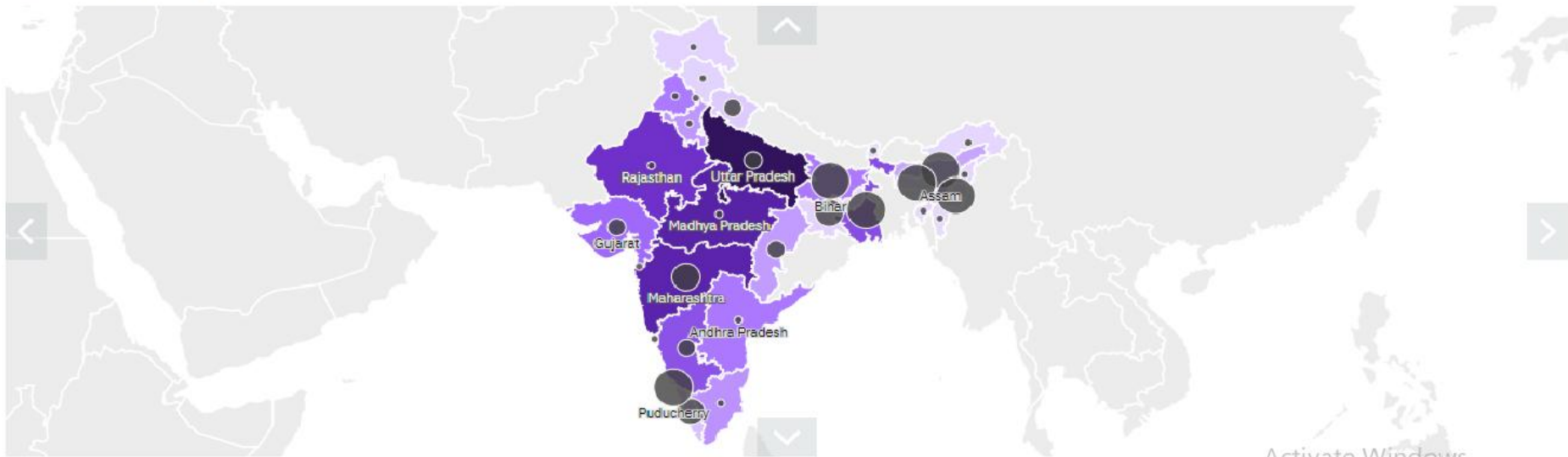
Activate Windows

State Name, Area, Season

Area (Sum)



Season (Count dis...)



Activate Windows

Go to Settings to activate Windows.

8. Rename and Save the file

The screenshot shows the IBM Cognos Analytics interface. A 'Save as' dialog box is open, allowing the user to save a file. The 'Name' field contains 'estimation of crop yield exploration'. The 'Selected destination' is 'My content'. Below this, a table lists the contents of 'My content'.

Name	Type	Last Accessed
Data Modules	Folder	11/14/2022, 10:09 AM
50_startups.csv	Uploaded file	9/19/2022, 1:03 AM
archive (8) (1).zip	Uploaded file	11/15/2022, 10:03 AM
CROP AREA.xlsx	Uploaded file	11/17/2022, 8:58 AM
CROP PRODUCTION.csv	Uploaded file	11/17/2022, 9:02 AM
crop yield	Data module	11/15/2022, 7:25 AM
crop yield using data analytics.zip	Uploaded file	11/15/2022, 11:19 AM

The background dashboard shows a line chart titled 'Crop by State N...d by Crop Year' and a 'Data relationships' diagram. The right sidebar displays 'Details' for the selected file, including the total number of results (246,091) and the most common values for 'State Name' and 'Crop Year'.