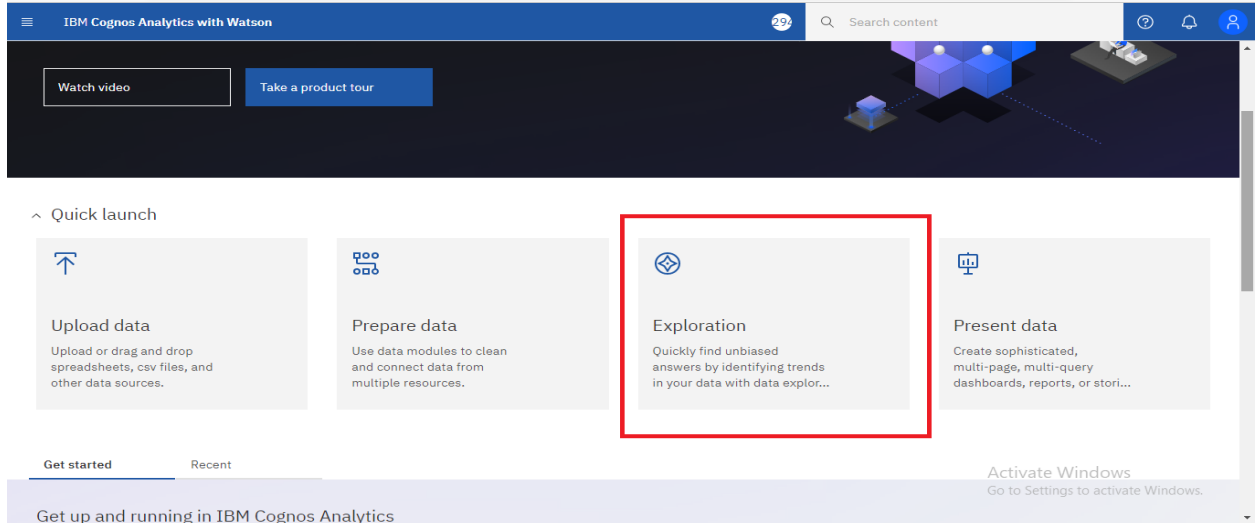# Estimation of crop yield using data analytics

SPRINT-2   Team ID: PNT2022TMID20578
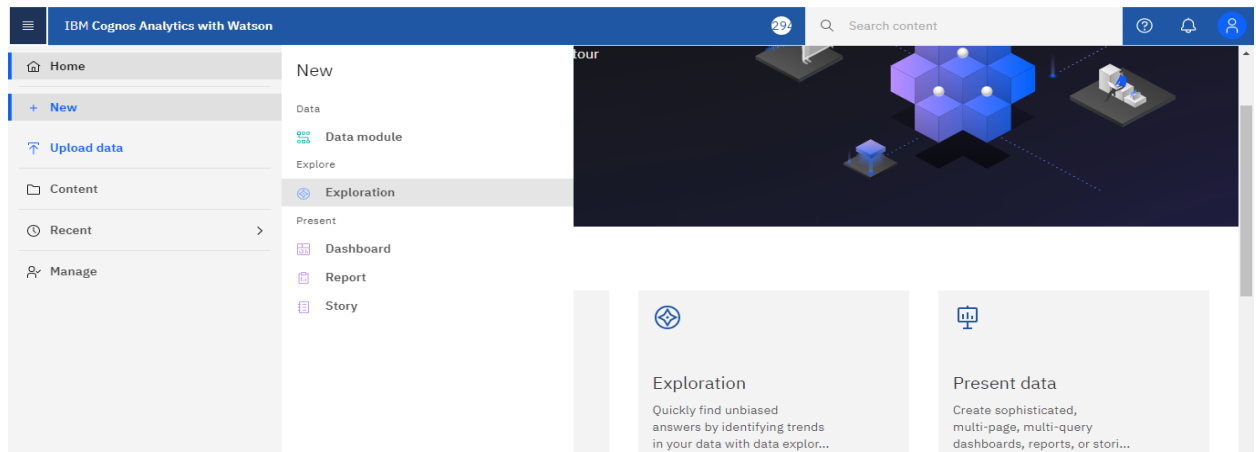
DATA EXPLORATION

1. click the data prepare data icon.
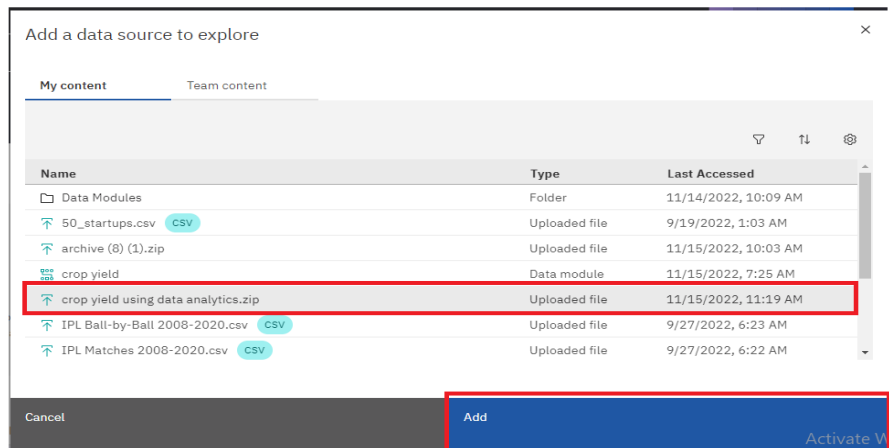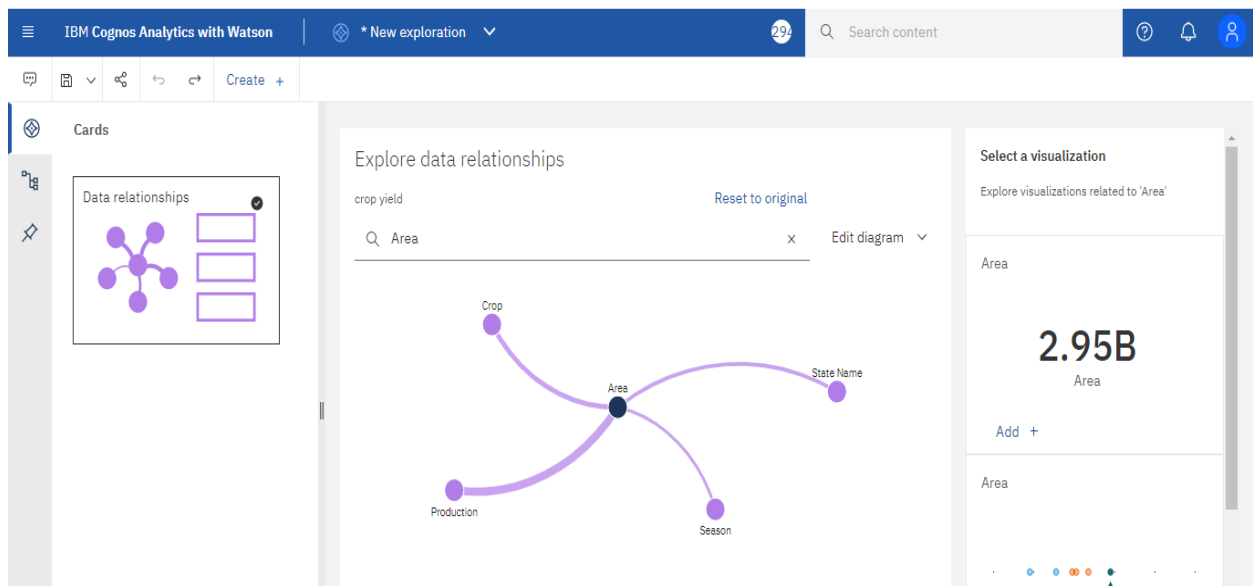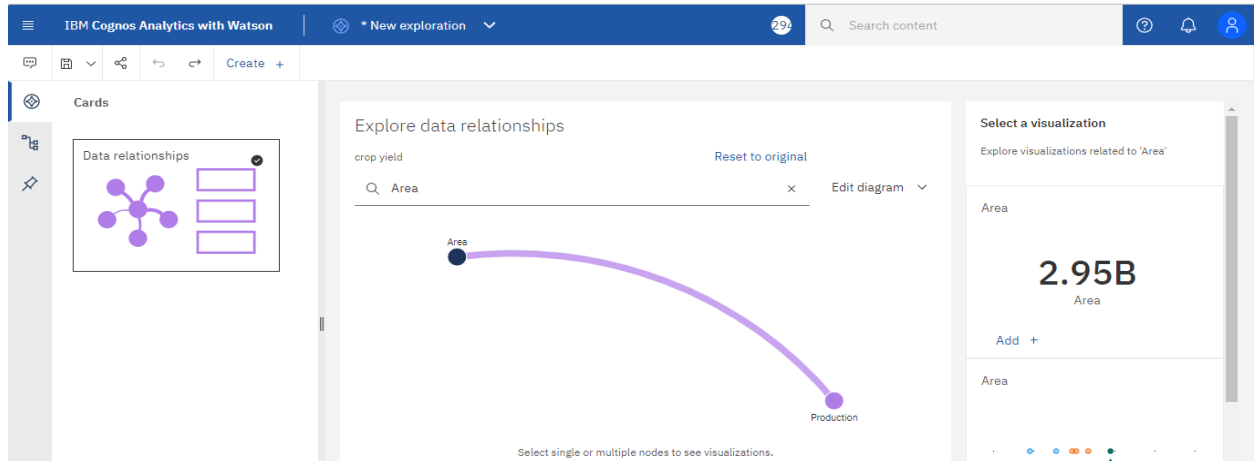

(OR)

Click->New->Exploration

2. Select the file and click add.

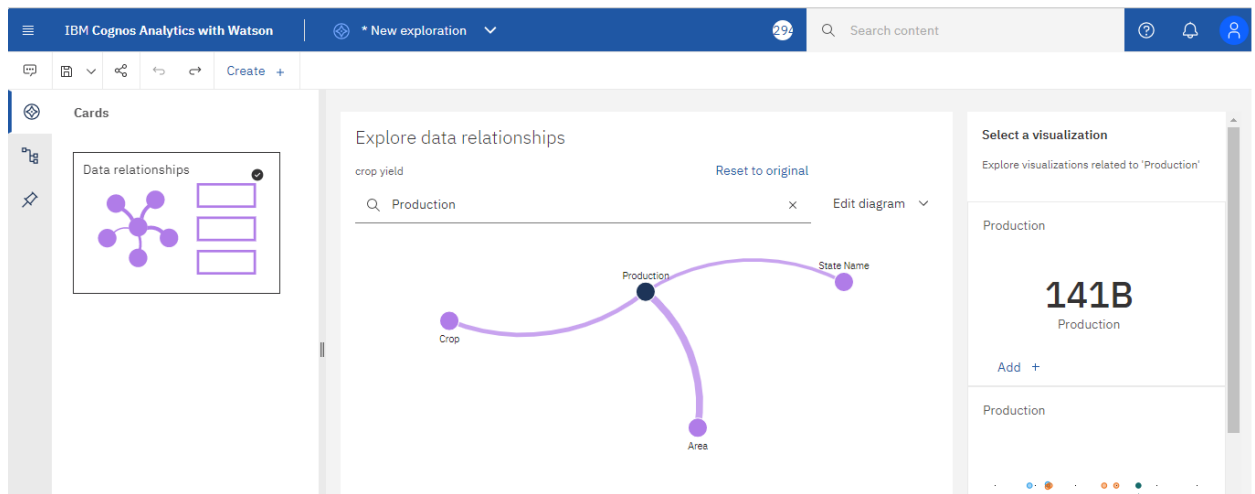**3.** Select the data relationships icon
  (i) explore the area of the crop by adjusting the range

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

* New exploration

294   Search content

Cards

Data relationships

Explore data relationships

crop yield   Reset to original

Production   ✕   Edit diagram ⌄

Production

Area

Crop

Select single or multiple nodes to see visualizations.

Select a visualization
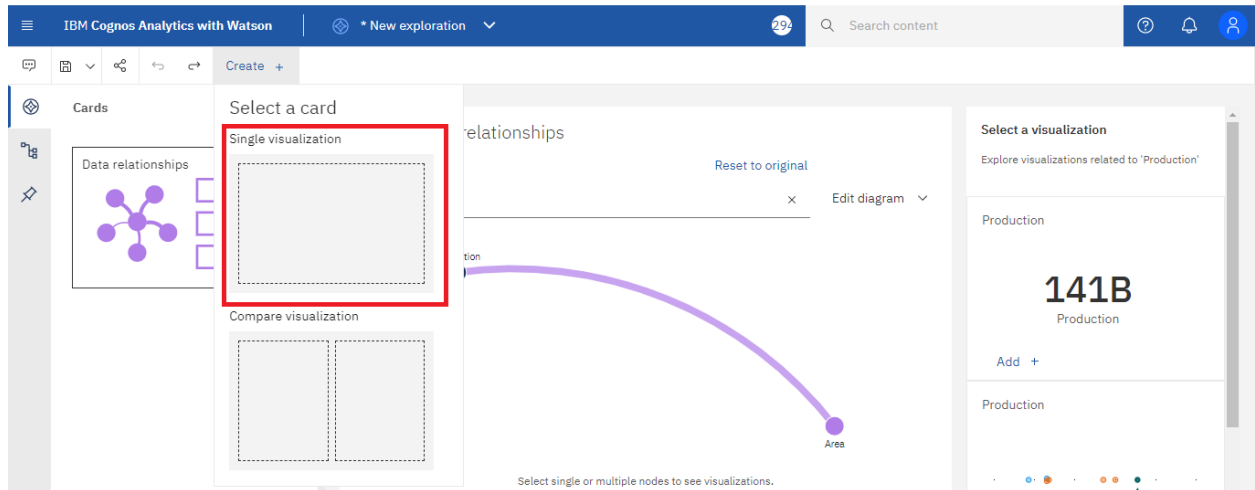
Explore visualizations related to 'Production'
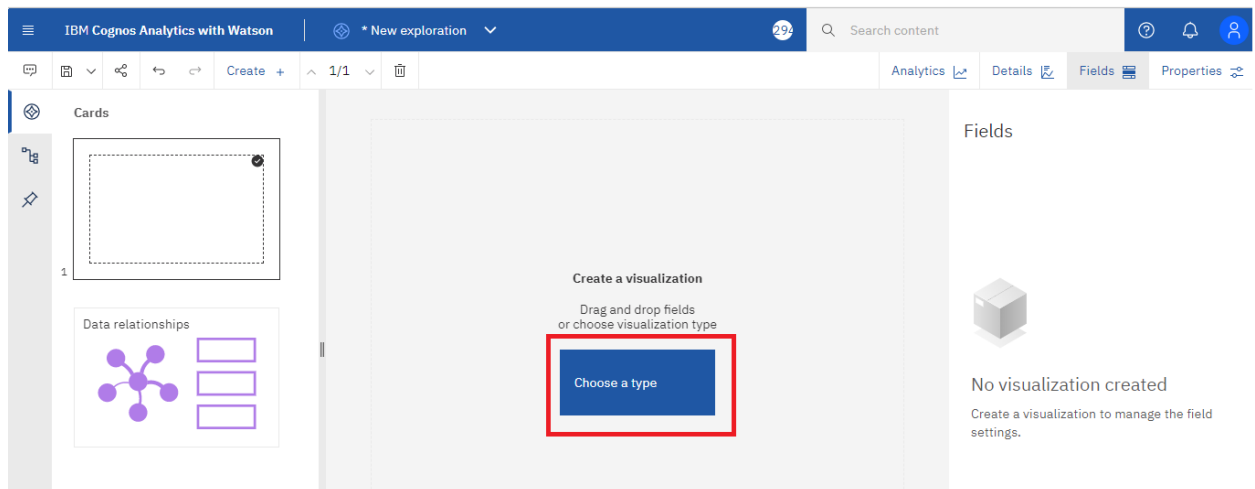
Production

141B

Production

Add +

Production

---

4. Click create -> Single visualization

5. Click choose type

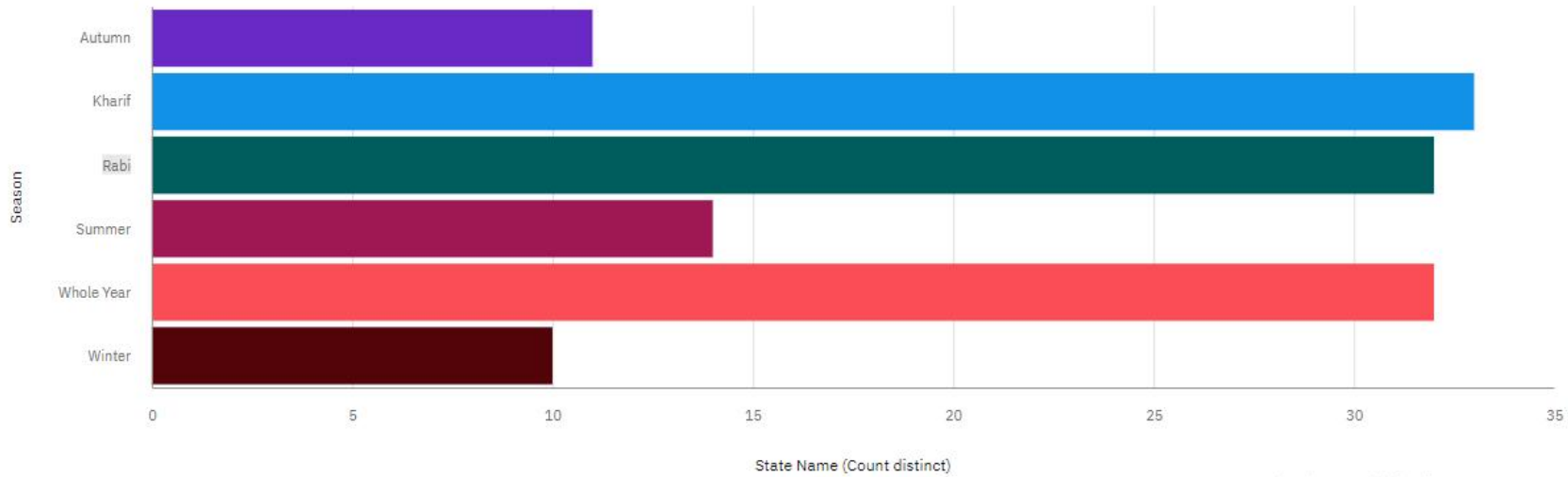**6.** Different visualization Type will be available

7. Perform different visualization

State Name by Season colored by Season
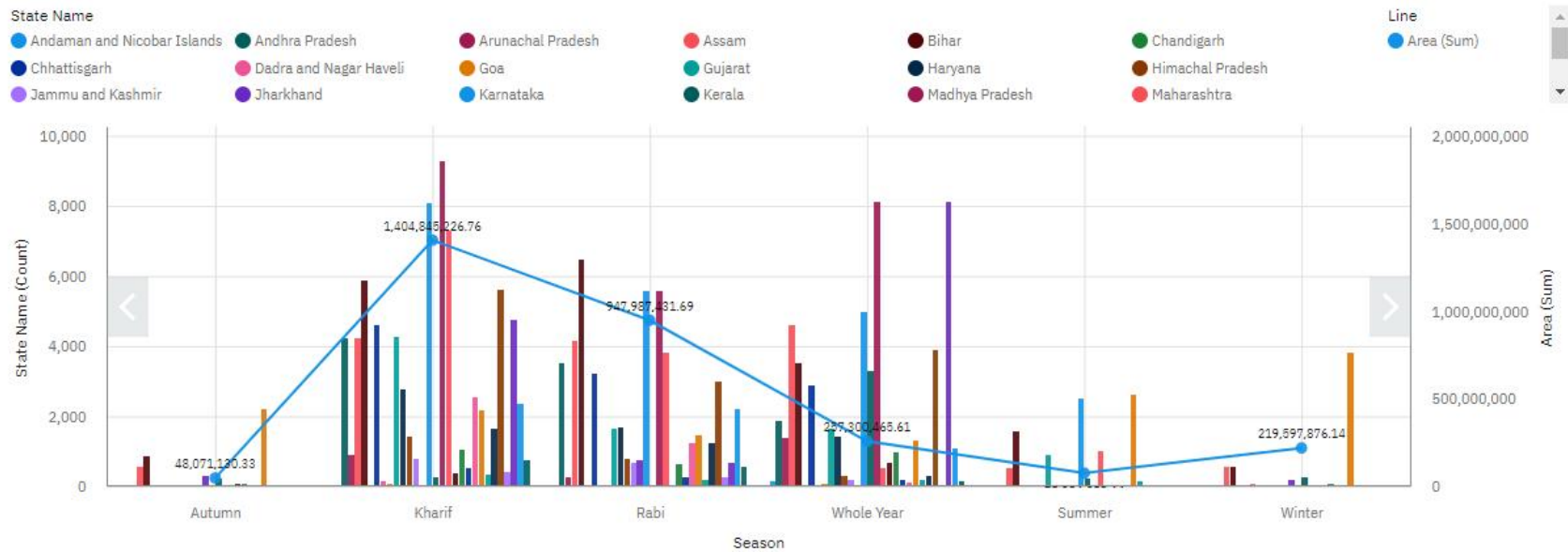
Season
● Autumn ● Kharif ● Rabi ● Summer ● Whole Year ● Winter

State Name (Count distinct)

Activate Windows

Area and State Name for Season colored by State Name

State Name

- Andaman and Nicobar Islands
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Dadra and Nagar Haveli
- Goa
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu and Kashmir
- Jharkhand
- Karnataka
- Kerala
- Madhya Pradesh
- Maharashtra

Line
- Area (Sum)

Chart data labels: 48,071,130.33 · 1,404,845,226.76 · 947,987,431.69 · 225,300,465.61 · 219,697,876.14

X-axis (Season): Autumn · Kharif · Rabi · Whole Year · Summer · Winter

Left Y-axis: State Name (Count) — 0 to 10,000
Right Y-axis: Area (Sum) — 0 to 2,000,000,000

State Name hierarchy colored by Season and sized by Crop

Crop (Count distin...

1   77

Season
- Autumn
- Kharif
- Rabi
- Summer
- Whole Year
- Winter
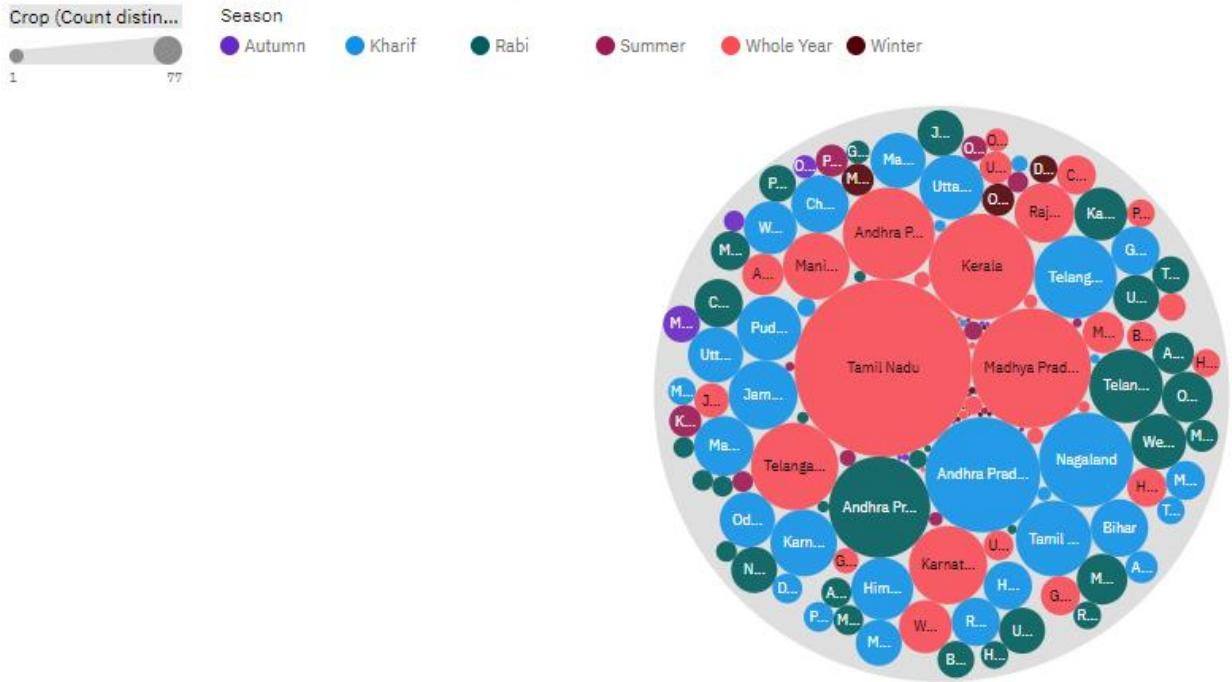
Area and Production for Crop Year and State Name

Column values

● Increase ● Decrease ● Sum

Values

Crop Year - State Name

160,000,000,000
140,000,000,000
120,000,000,000
100,000,000,000
80,000,000,000
60,000,000,000
40,000,000,000
20,000,000,000
0

Area
Production
Production
Production
Production
Production
Meghalaya
Tripura
Dadra and Nagar Havel
Area
Area
Area
Production
Production
Production
Production
Sikkim
Kerala
Bihar
Area
Area
Area
Area
Production
Production
Production
Pr...

Crop YearState Name to Crop Year

From
● Crop Year - State Name

To
● Crop Year
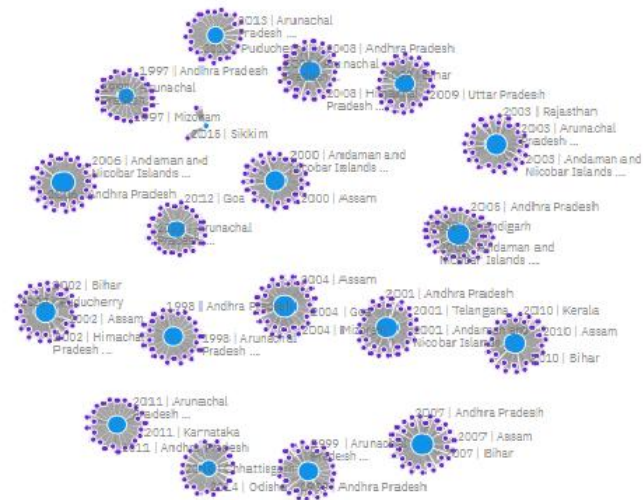
Crop Year by Season colored by State Name

● Andhra Pradesh ● Bihar ● Goa ● Kerala ● Tamil Nadu
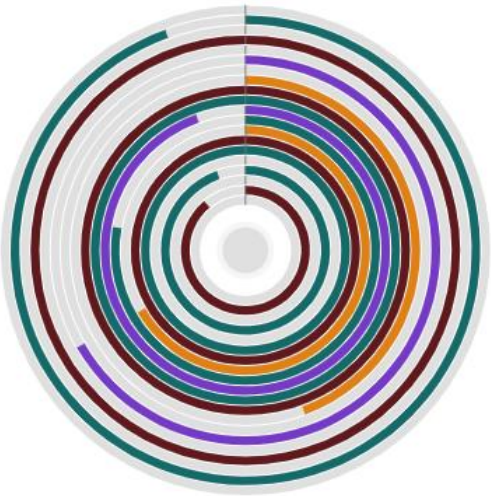
State Name, Crop, District Name, Season and Crop Year

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	

Area

Area

Nodes

Bottom 5
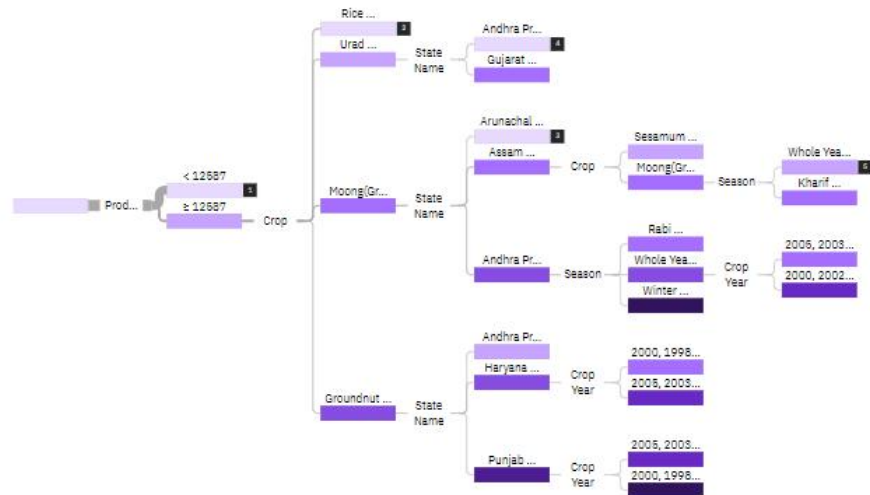
Crop by State Name colored by Crop Year

Crop Year

● 1997 ● 1998 ● 1999 ● 2000 ● 2001 ● 2002 ● 2003 ● 2004 ● 2005 ● 2006 ● 2007 ● 2008 ● 2009 ● 2010 ● 2011 ● 2012 ● 2013 ● 2014 ● 2015
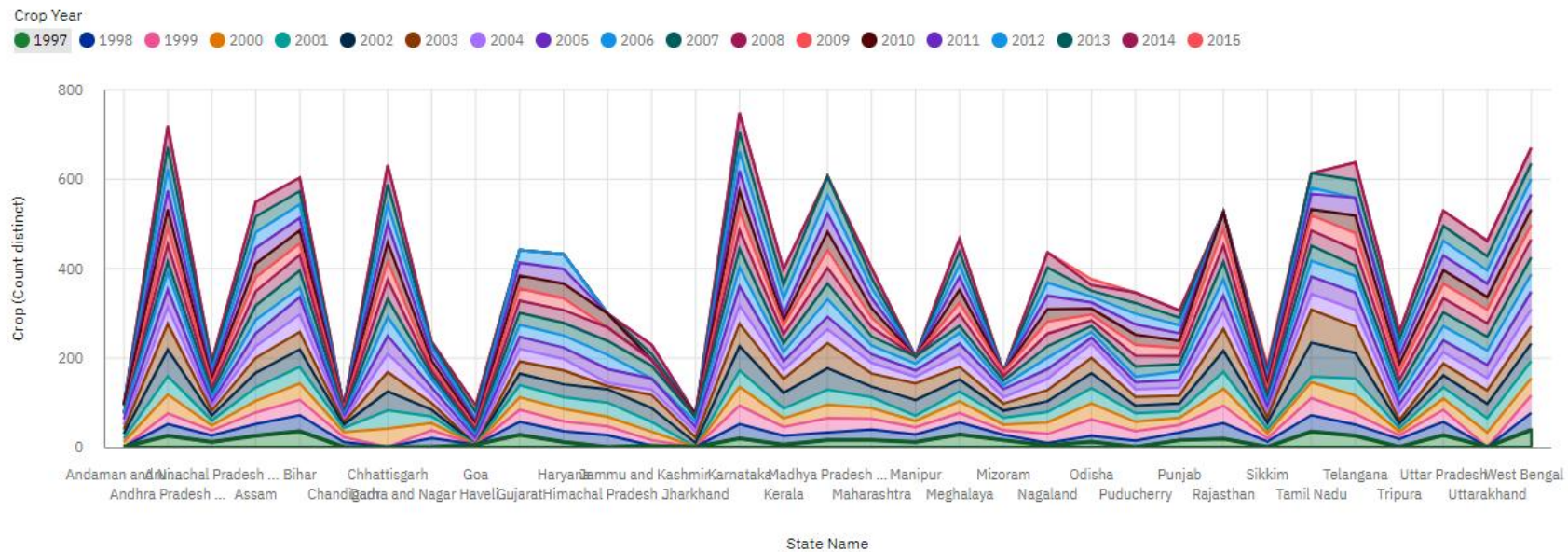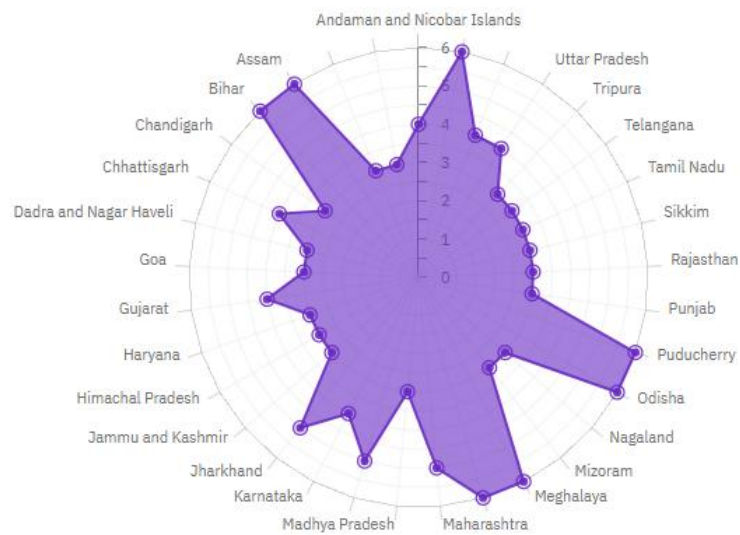
State Name

Season by State Name

State Name compared to Crop for Crop

246K ↑

Crop

33 (+745,630.3%)

State Name

State Name, Area, Season

Area (Sum)

12,522   433,631,680

Season (Count dis...

3   6

Rajasthan

Uttar Pradesh

Bihar

Assam

Madhya Pradesh

Gujarat

Maharashtra

Andhra Pradesh

Puducherry
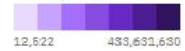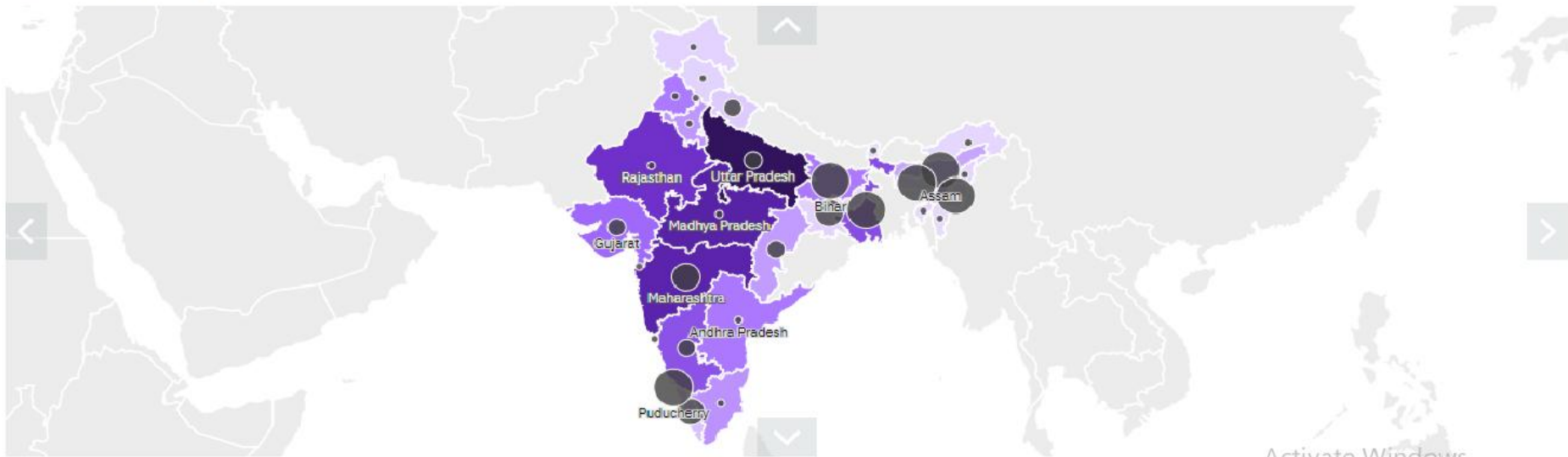
8. Rename and Save the file