VISUALIZATION

Date	02-November-2022
Team ID	PNT2022TMID40545
Project Name	Estimate the crop yield using data analytics

LINK 1:

https://us3.ca.analytics.ibm.com/bi/?perspective=explore&pathRef=.my_folders%2FData%2Bvisualization%2Bcharts&subView=model00000184316dd681_00000003

LINK 2:

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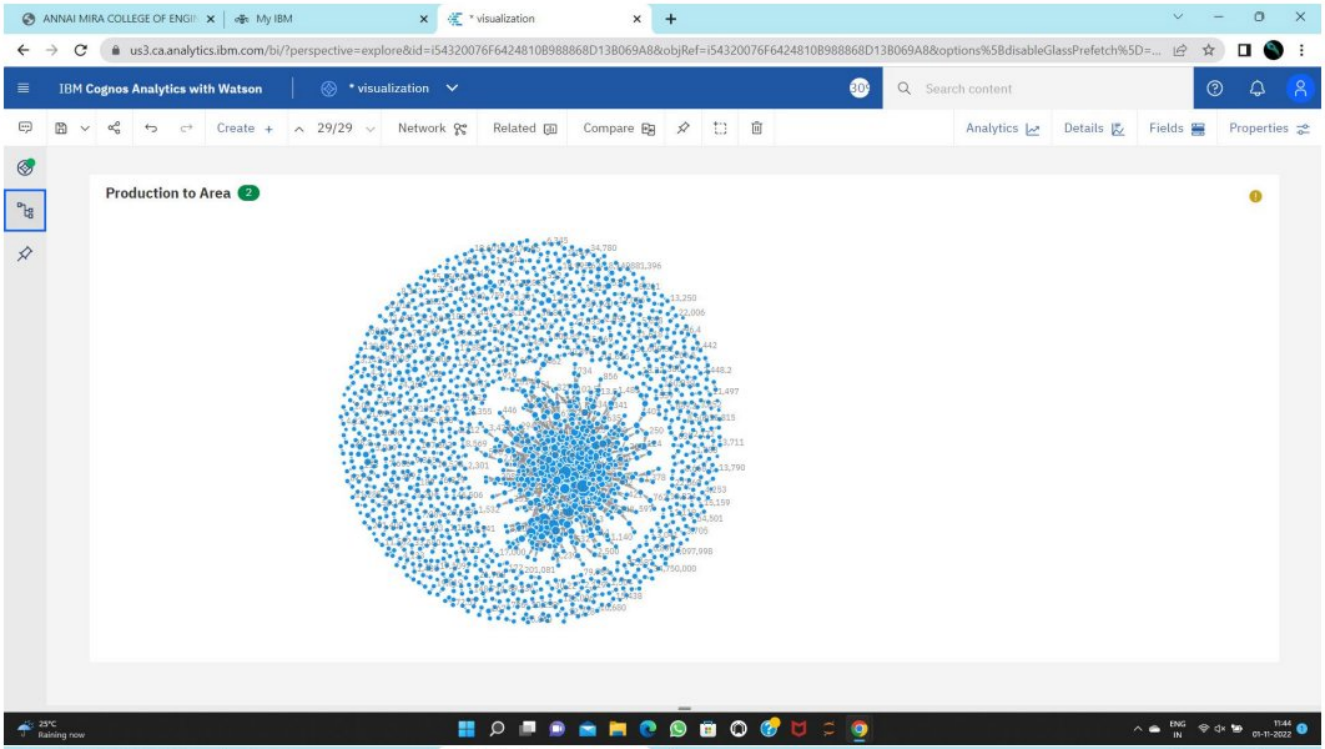
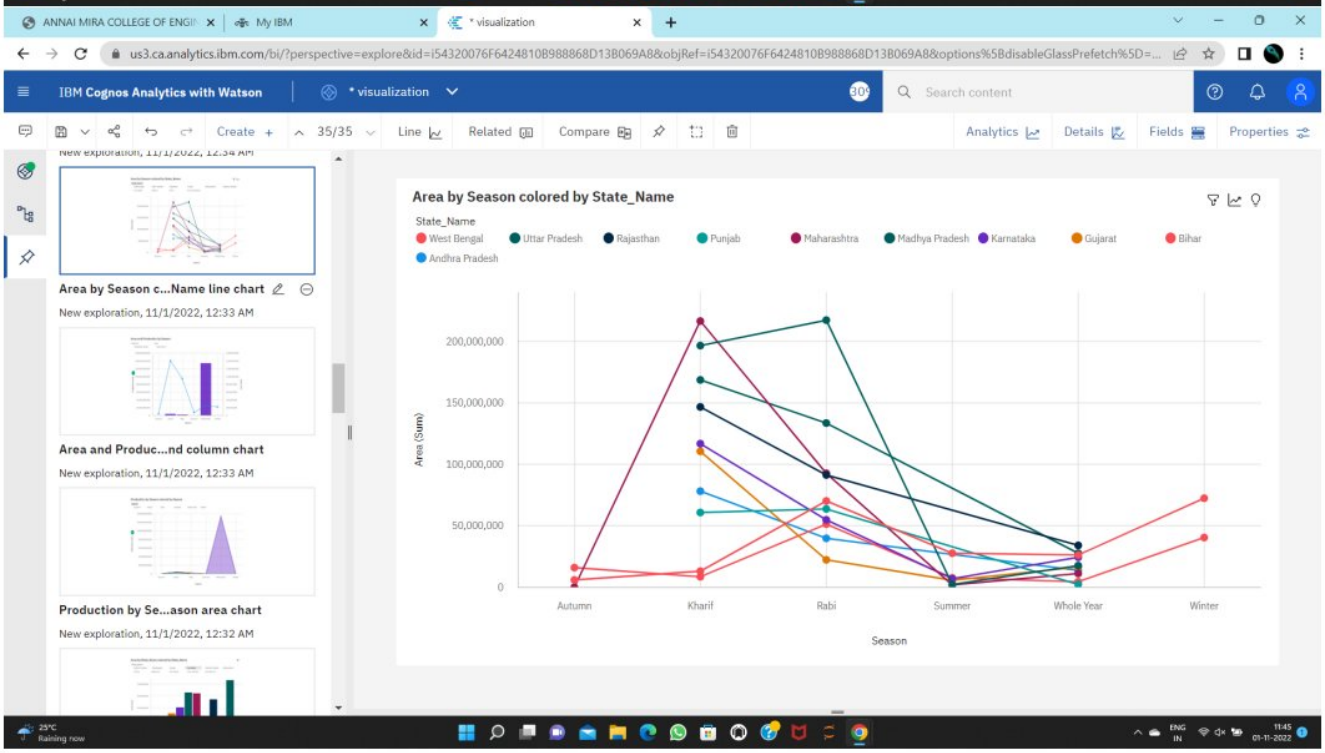
Suggestions: Showing


ANNAI MIRA COLLEGE OF ENGI
My IBM
* visualization
IBM Cognos Analytics with Watson
Search content
Create
29/29
Network
Related
Compare
Analytics
Details
Fields
Properties
Production to Area
2


ANNAI MIRA COLLEGE OF ENGI
My IBM
* visualization
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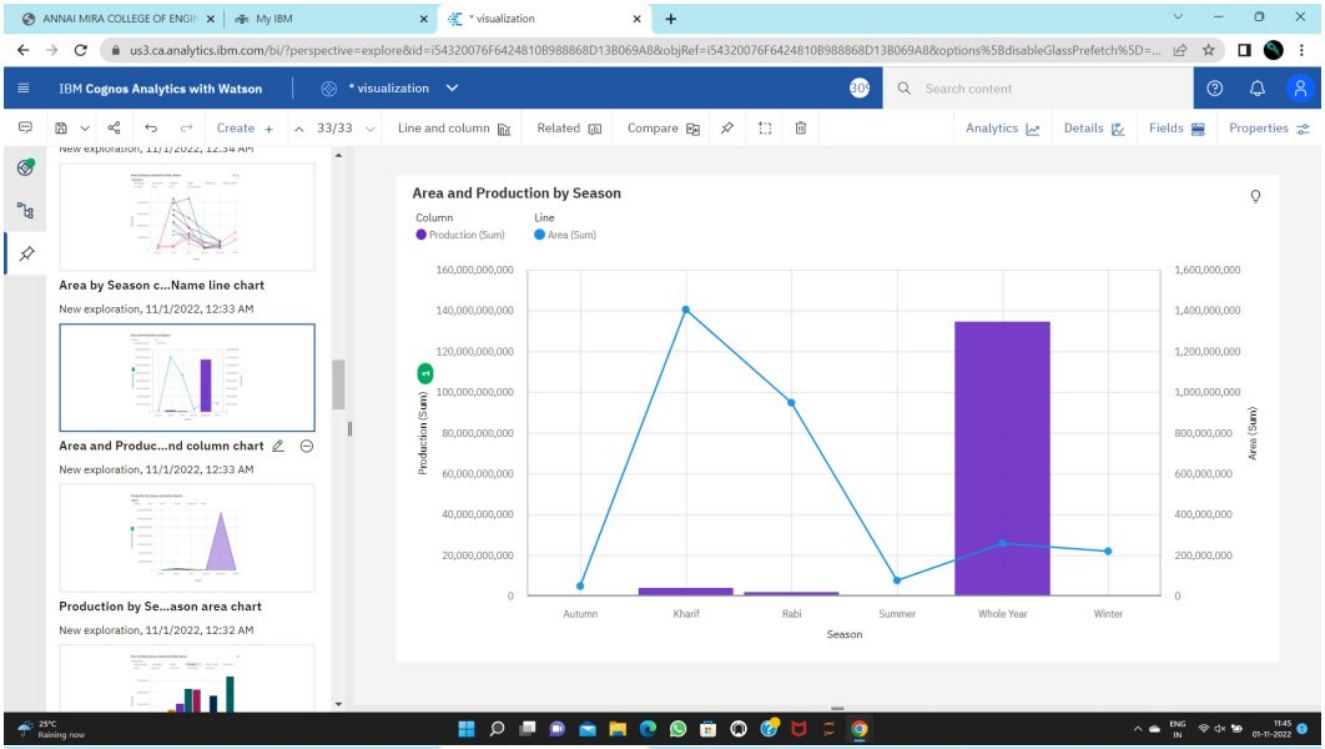
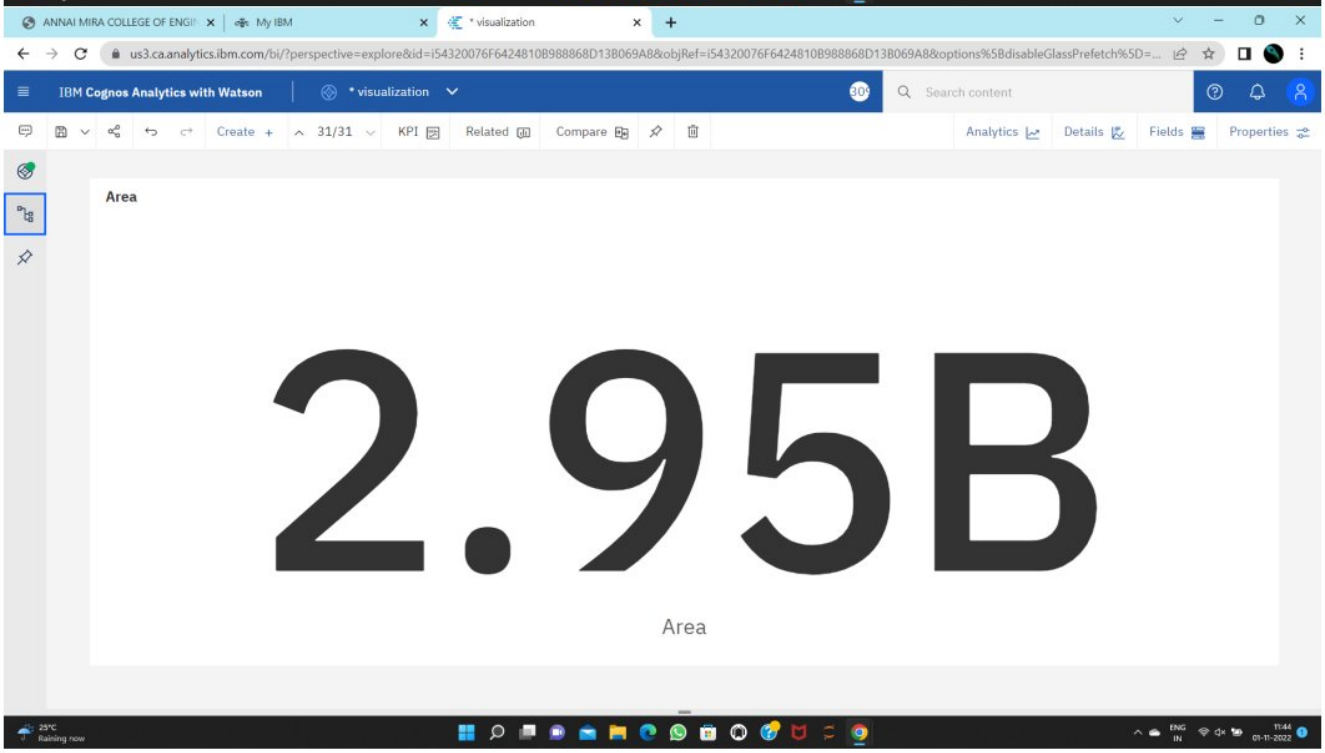
Search content
Create
35/35
Line
Related
Compare
Analytics
Details
Fields
Properties
Area by Season c...Name line chart
New exploration, 11/1/2022, 12:33 AM
Area and Produc...nd column chart
New exploration, 11/1/2022, 12:33 AM
Production by Se...ason area chart
New exploration, 11/1/2022, 12:32 AM
Area by Season colored by State_Name
State_Name
West Bengal
Uttar Pradesh
Rajasthan
Punjab
Maharashtra
Madhya Pradesh
Karnataka
Gujarat
Bihar
Andhra Pradesh
Area (Sum)
200,000,000
150,000,000
100,000,000
50,000,000
0
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season


ANNAI MIRA COLLEGE OF ENGI
My IBM
* visualization
IBM Cognos Analytics with Watson
Search content
Create
33/33
Line and column
Related
Compare
Analytics
Details
Fields
Properties
Area by Season c...Name line chart
New exploration, 11/1/2022, 12:33 AM
Area and Produc...nd column chart
New exploration, 11/1/2022, 12:33 AM
Production by Se...ason area chart
New exploration, 11/1/2022, 12:32 AM
Area and Production by Season
Column
Production (Sum)
Line
Area (Sum)
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
Production (Sum)
1,600,000,000
1,400,000,000
1,200,000,000
1,000,000,000
800,000,000
600,000,000
400,000,000
200,000,000
0
Area (Sum)
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season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* visualization
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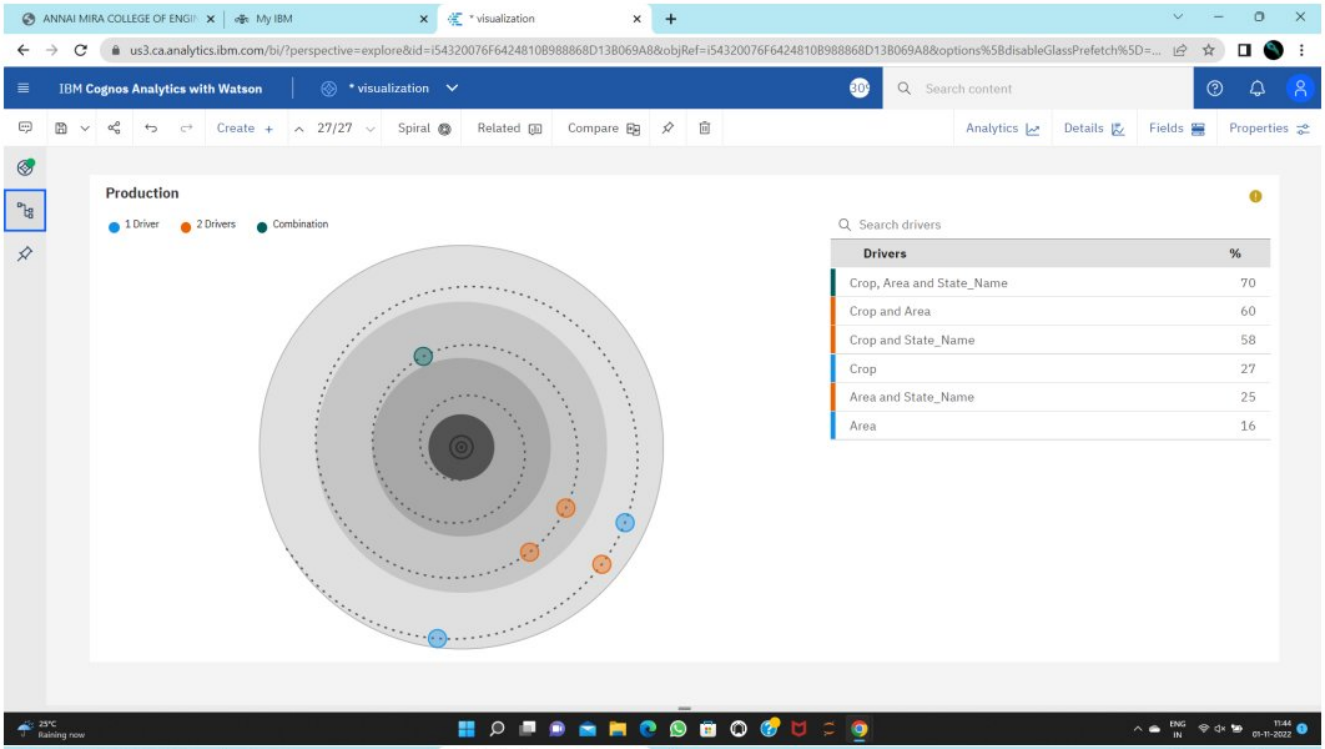
Search content
Create
31/31
KPI
Related
Compare
Analytics
Details
Fields
Properties
Area
2.95B
Area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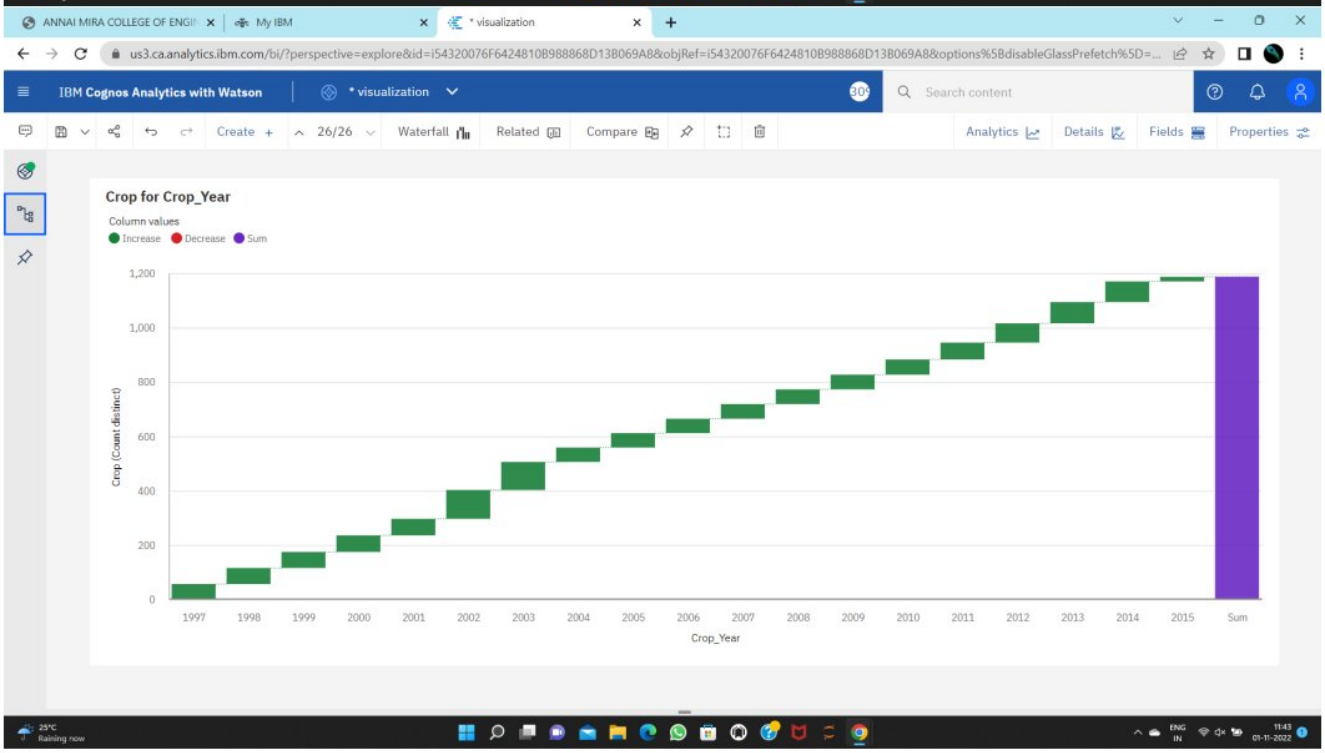
IBM Cognos Analytics with Watson
* visualization
Search content
Create
27/27
Spiral
Related
Compare
Analytics
Details
Fields
Properties
Production
1 Driver
2 Drivers
Combination
Search drivers
Drivers
%
Crop, Area and State_Name 70
Crop and Area 60
Crop and State_Name 58
Crop 27
Area and State_Name 25
Area 16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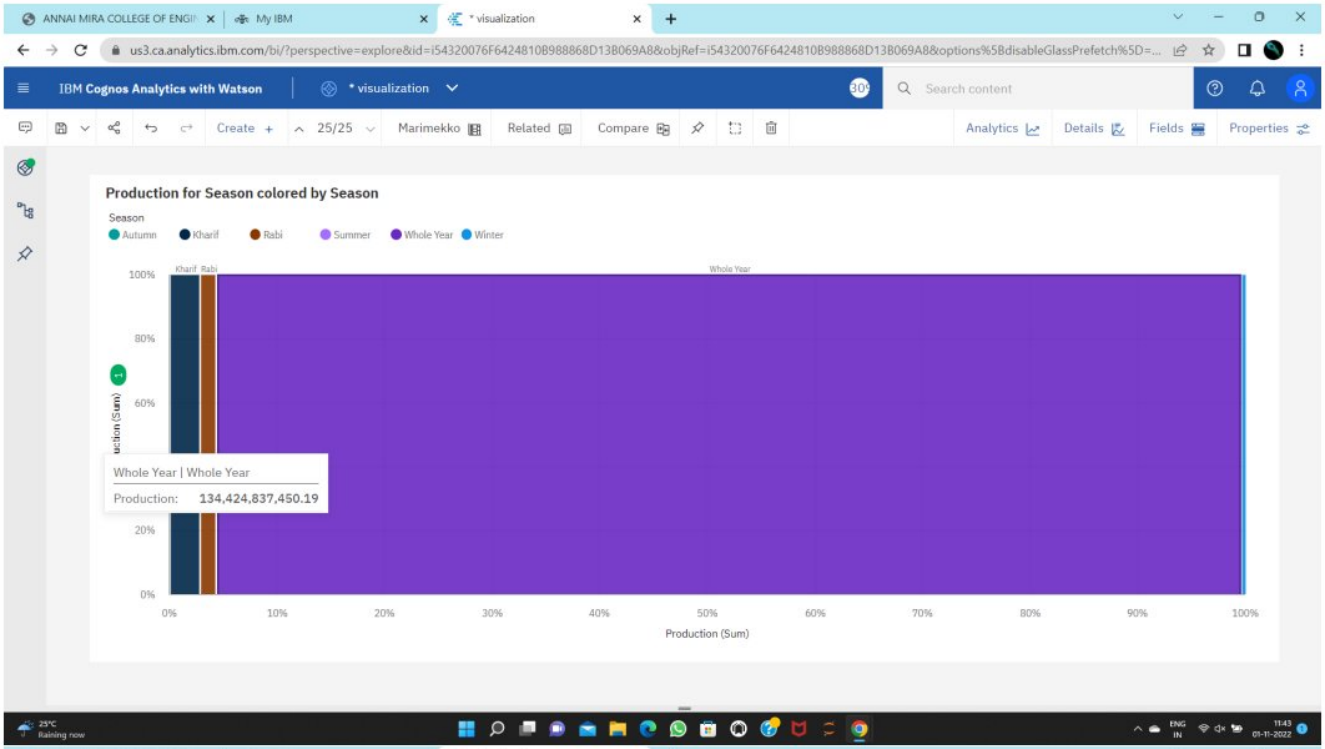
* visualization
Search content
Create
26/26
Waterfall
Related
Compare
Analytics
Details
Fields
Properties
Crop for Crop_Year
Column values
Increase
Decrease
Sum
1,200
1,000
800
600
400
200
0
Crop (Count distinct)
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Sum
Crop_Year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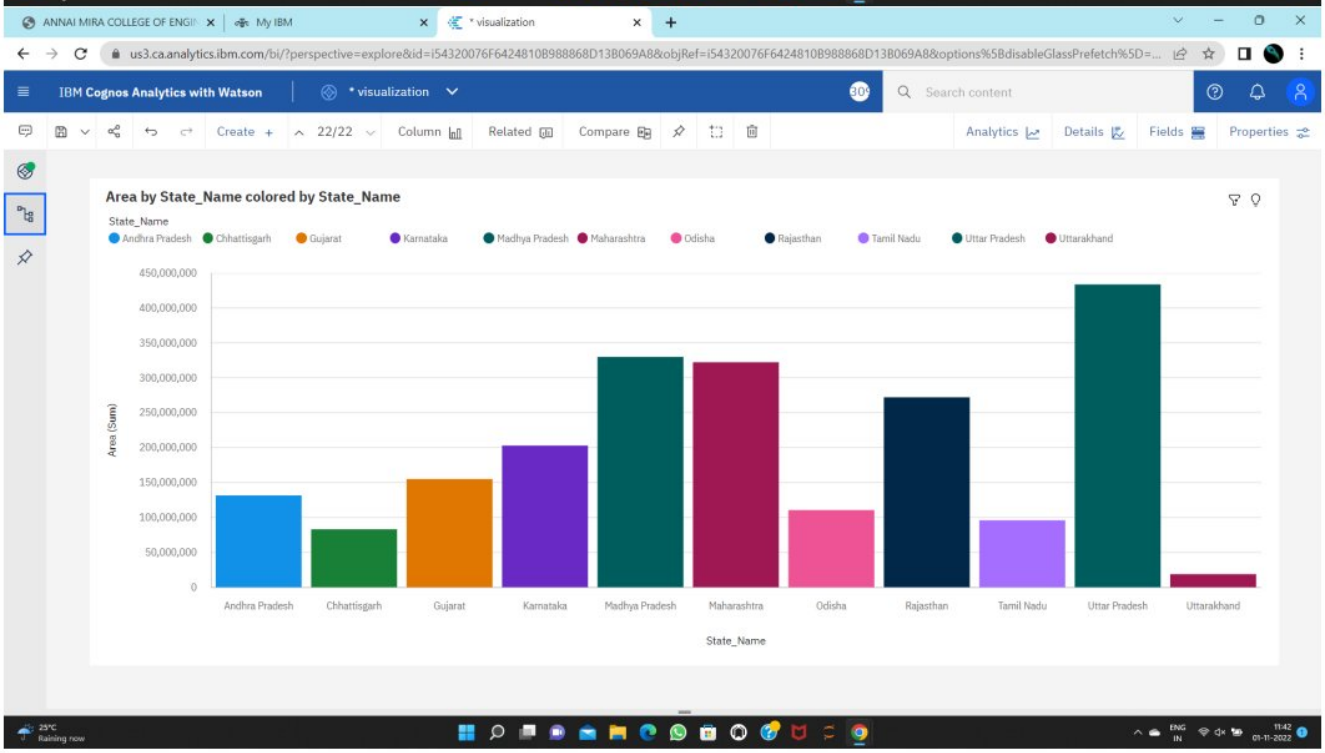
* visualization
Search content
Create
25/25
Marimekko
Related
Compare
Analytics
Details
Fields
Properties
Production for Season colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Kharif
Rabi
Whole Year
100%
80%
60%
20%
0%
uction (Sum)
Whole Year | Whole Year
Production: 134,424,837,450.19
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
Production (Sum)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* visualization
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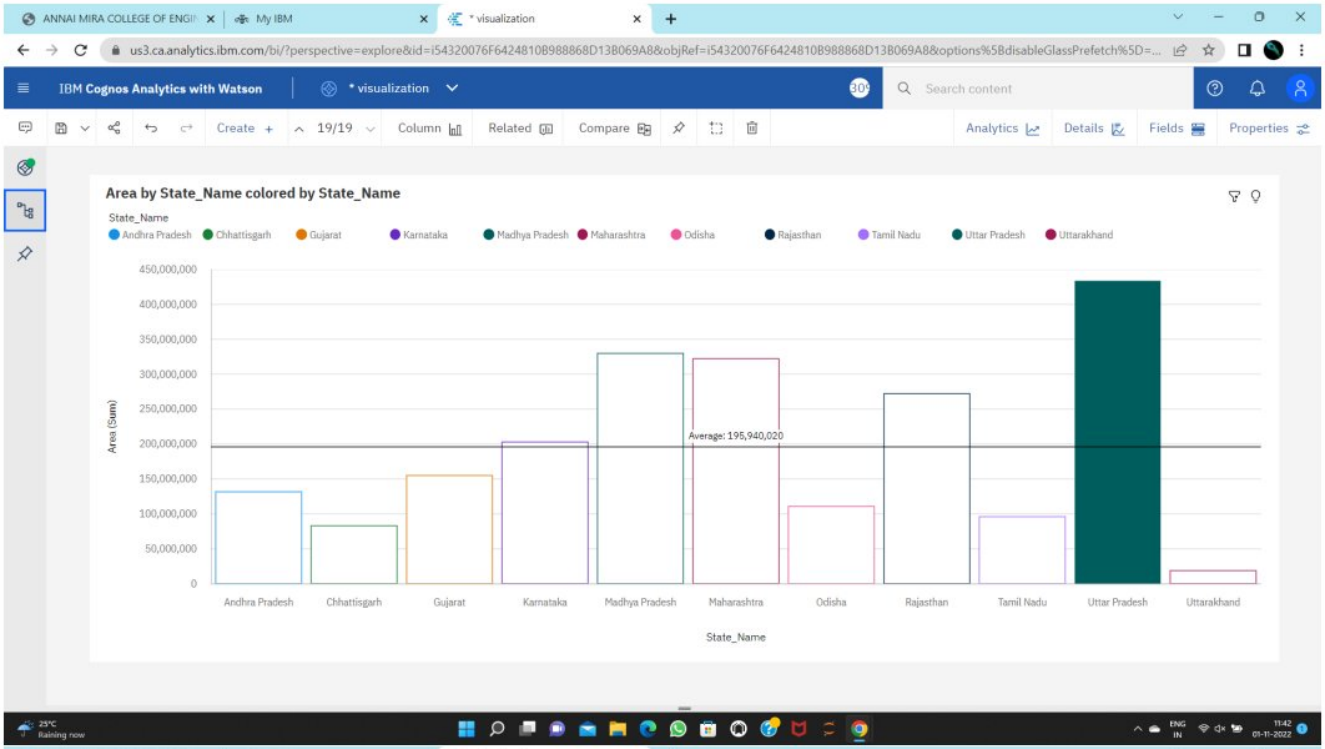
IBM Cognos Analytics with Watson
* visualization
Search content
Create
22/22
Column
Related
Compare
Analytics
Details
Fields
Properties
Area by State_Name colored by State_Name
State_Name
Andhra Pradesh
Chhattisgarh
Gujarat
Karnataka
Madhya Pradesh
Maharashtra
Odisha
Rajasthan
Tamil Nadu
Uttar Pradesh
Uttarakhand
450,000,000
400,000,000
350,000,000
300,000,000
250,000,000
200,000,000
150,000,000
100,000,000
50,000,000
0
Area (Sum)
Andhra Pradesh
Chhattisgarh
Gujarat
Karnataka
Madhya Pradesh
Maharashtra
Odisha
Rajasthan
Tamil Nadu
Uttar Pradesh
Uttarakhand
State_Name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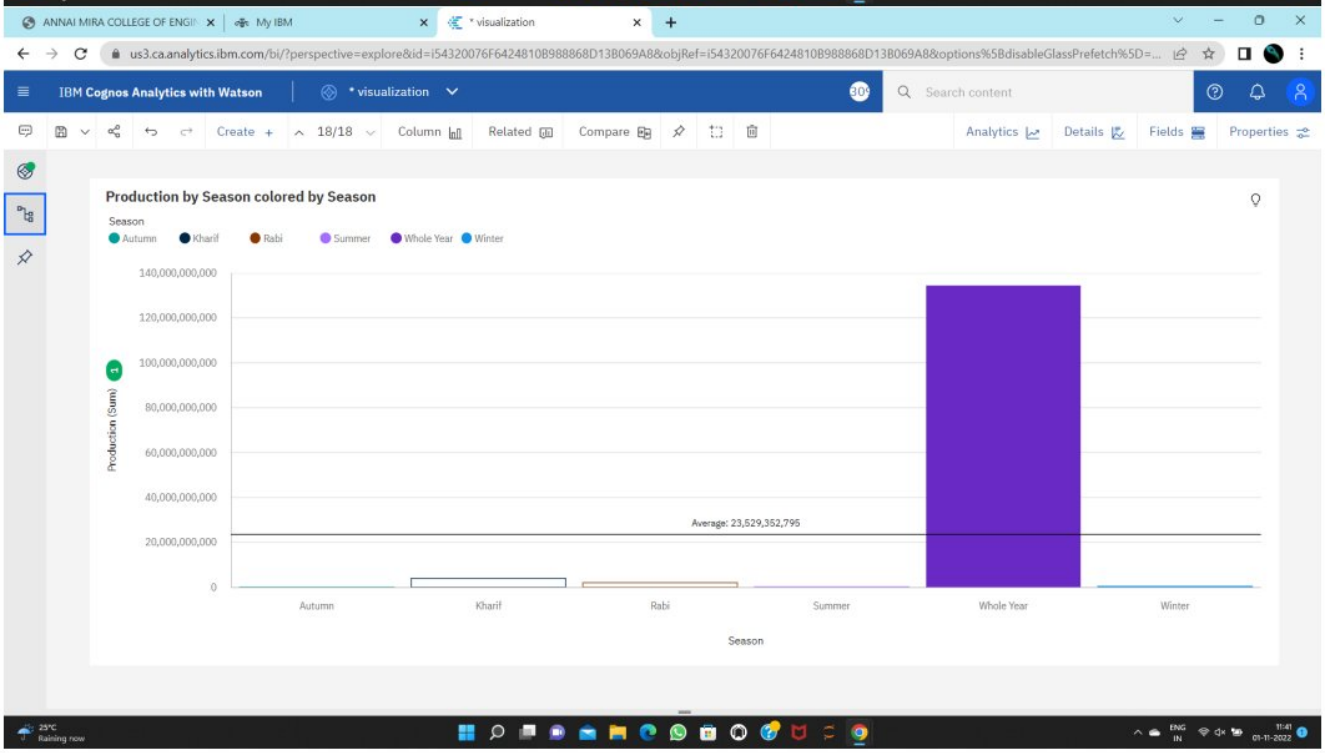
* visualization
Search content
Create
19/19
Column
Related
Compare
Analytics
Details
Fields
Properties
Area by State_Name colored by State_Name
State_Name
Andhra Pradesh
Chhattisgarh
Gujarat
Karnataka
Madhya Pradesh
Maharashtra
Odisha
Rajasthan
Tamil Nadu
Uttar Pradesh
Uttarakhand
450,000,000
400,000,000
350,000,000
300,000,000
250,000,000
200,000,000
150,000,000
100,000,000
50,000,000
0
Area (Sum)
Average: 195,940,020
Andhra Pradesh
Chhattisgarh
Gujarat
Karnataka
Madhya Pradesh
Maharashtra
Odisha
Rajasthan
Tamil Nadu
Uttar Pradesh
Uttarakhand
State_Name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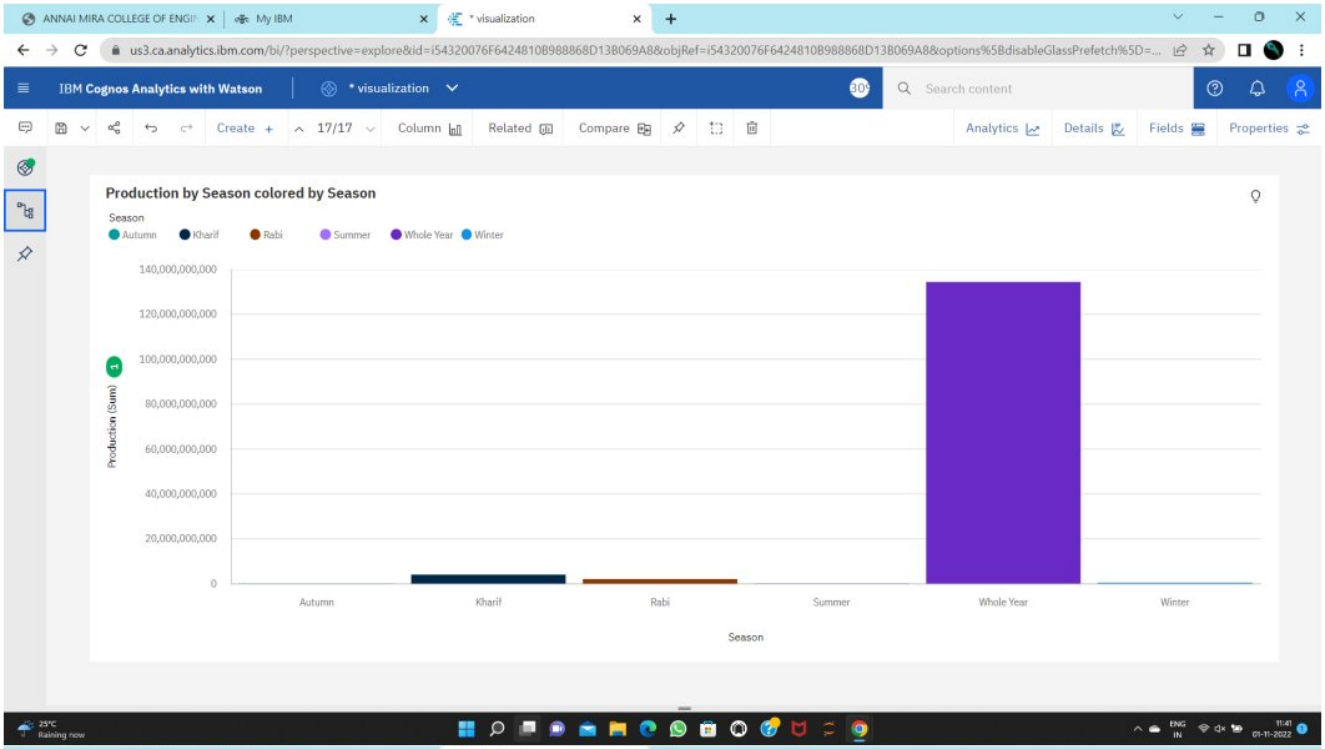
* visualization
Search content
Create
18/18
Column
Related
Compare
Analytics
Details
Fields
Properties
Production by Season colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
140,000,000,000
120,000,000,000
100,000,000,000
80,000,000,000
60,000,000,000
40,000,000,000
20,000,000,000
0
Production (Sum)
Average: 23,529,352,795
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season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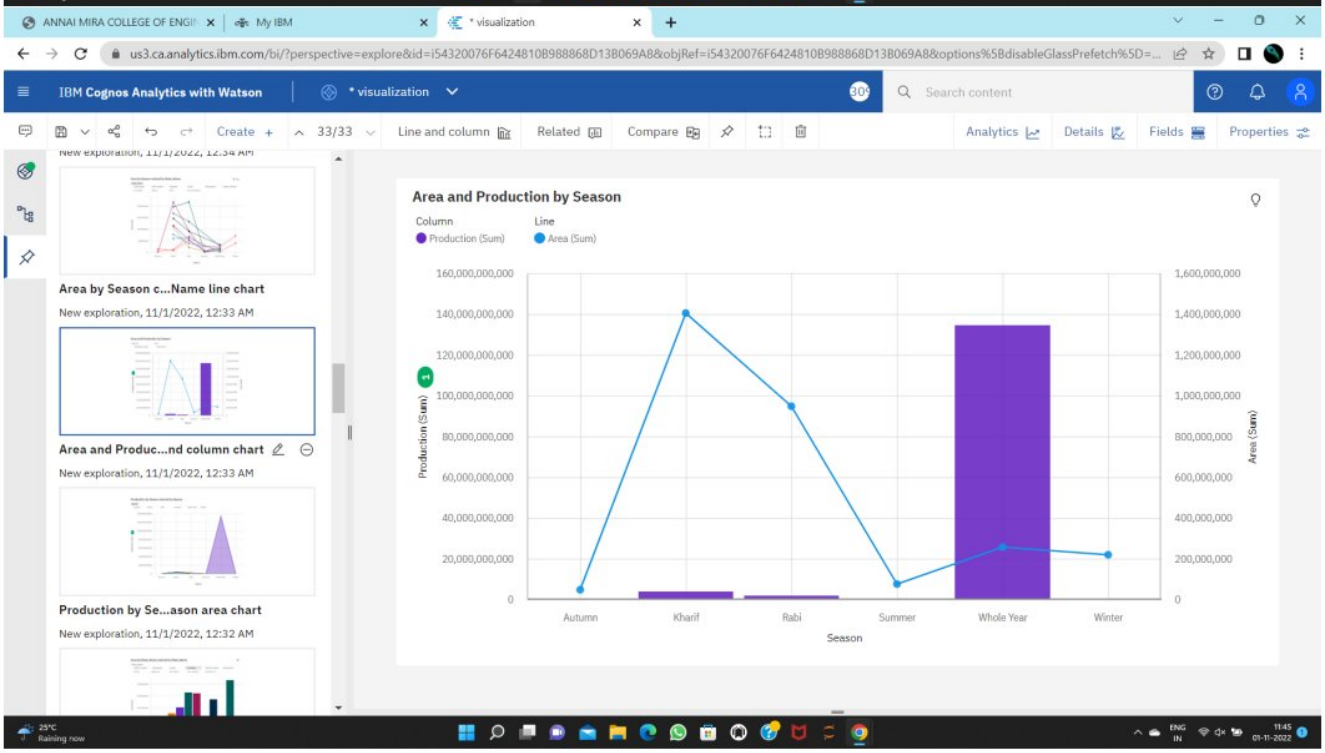
Search content
Create
17/17
Column
Related
Compare
Analytics
Details
Fields
Properties
Production by Season colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Production (Sum)
Season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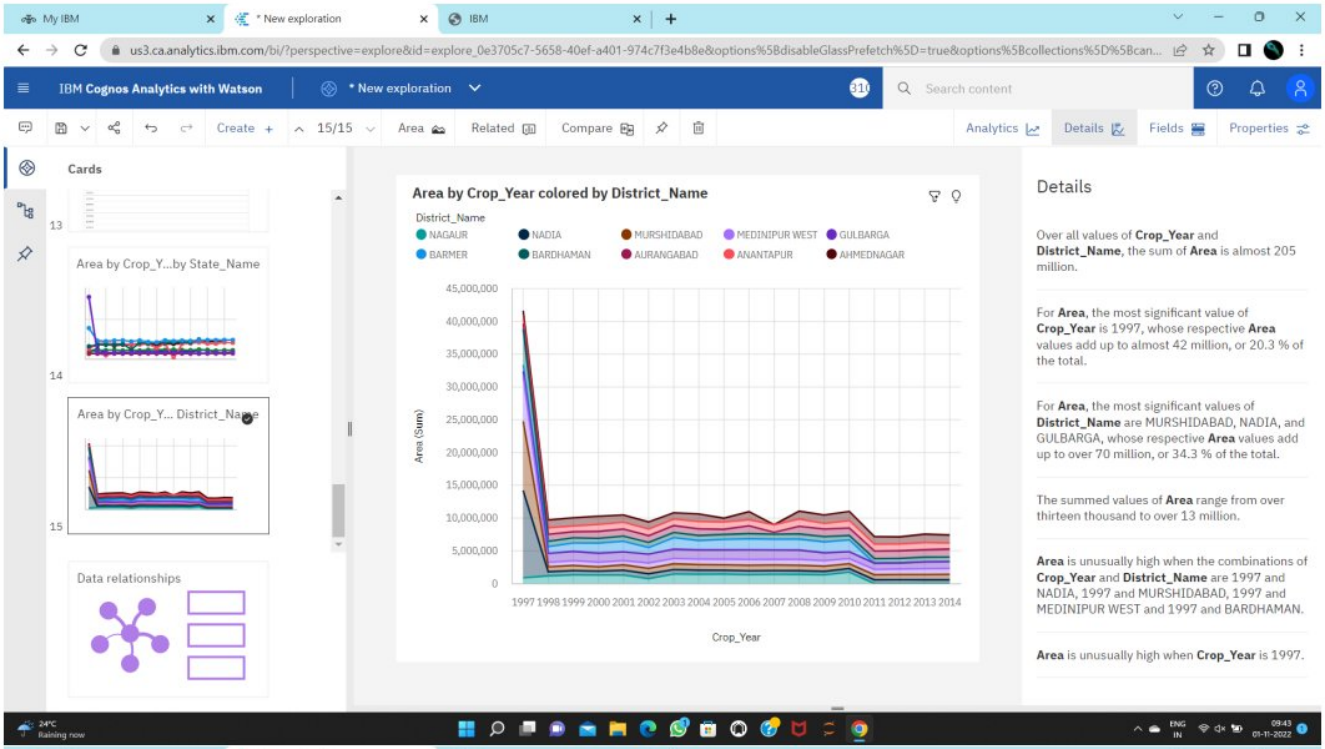
Search content
Create
33/33
Line and column
Related
Compare
Analytics
Details
Fields
Properties
Area by Season c...Name line chart
New exploration, 11/1/2022, 12:33 AM
Area and Produc...nd column chart
New exploration, 11/1/2022, 12:33 AM
Production by Se...ason area chart
New exploration, 11/1/2022, 12:32 AM
Area and Production by Season
Column
Production (Sum)
Line
Area (Sum)
Production (Sum)
Area (Sum)
Season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* New exploration
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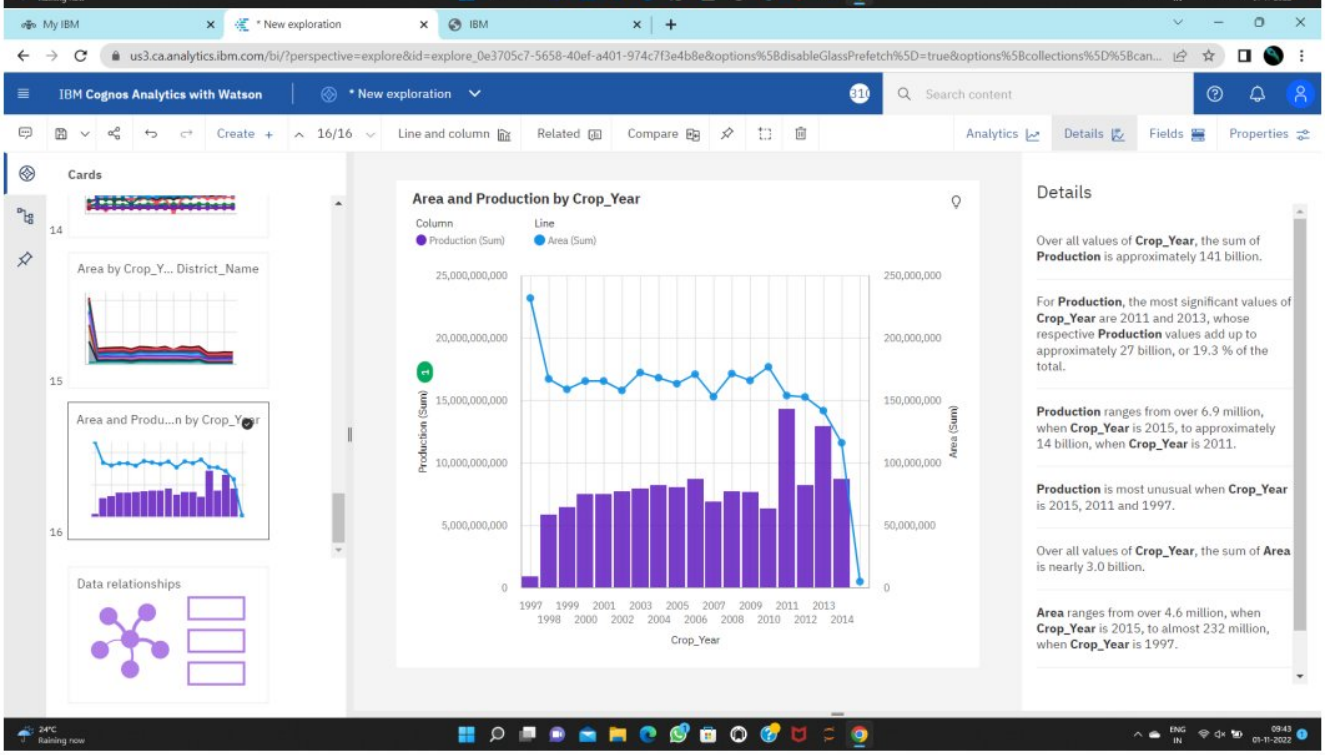
IBM Cognos Analytics with Watson
* New exploration
Search content
Create
15/15
Area
Related
Compare
Analytics
Details
Fields
Properties
Cards
13
Area by Crop_Y...by State_Name
14
Area by Crop_Y... District_Name
15
Data relationships
Area by Crop_Y... District_Name
Area by Crop_Year colored by District_Name
District_Name
NAGAUR
NADIA
MURSHIDABAD
MEDINIPUR WEST
GULBARGA
BARMER
BARDHAMAN
AURANGABAD
ANANTAPUR
AHMEDNAGAR
Area (Sum)
Crop_Year
Details
Over all values of Crop_Year and District_Name, the sum of Area is almost 205 million.
For Area, the most significant value of Crop_Year is 1997, whose respective Area values add up to almost 42 million, or 20.3 % of the total.
For Area, the most significant values of District_Name are MURSHIDABAD, NADIA, and GULBARGA, whose respective Area values add up to over 70 million, or 34.3 % of the total.
The summed values of Area range from over thirteen thousand to over 13 million.
Area is unusually high when the combinations of Crop_Year and District_Name are 1997 and NADIA, 1997 and MURSHIDABAD, 1997 and MEDINIPUR WEST and 1997 and BARDHAMAN.
Area is unusually high when Crop_Year is 1997.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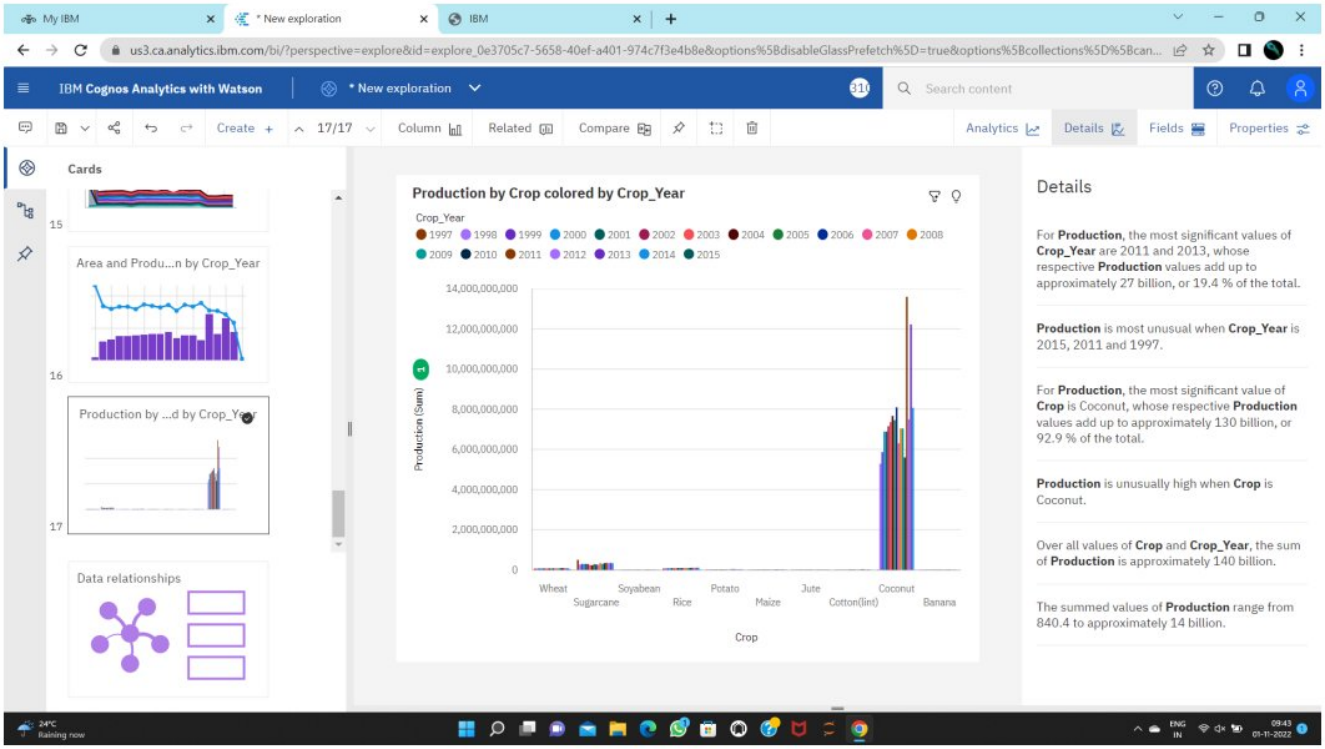
* New exploration
Search content
Create
16/16
Line and column
Related
Compare
Analytics
Details
Fields
Properties
Cards
14
Area by Crop_Y... District_Name
15
Area and Produ...n by Crop_Year
16
Data relationships
Area and Production by Crop_Year
Column
Production (Sum)
Line
Area (Sum)
Production (Sum)
Area (Sum)
Crop_Year
Details
Over all values of Crop_Year, the sum of Production is approximately 141 billion.
For Production, the most significant values of Crop_Year are 2011 and 2013, whose respective Production values add up to approximately 27 billion, or 19.3 % of the total.
Production ranges from over 6.9 million, when Crop_Year is 2015, to approximately 14 billion, when Crop_Year is 2011.
Production is most unusual when Crop_Year is 2015, 2011 and 1997.
Over all values of Crop_Year, the sum of Area is nearly 3.0 billion.
Area ranges from over 4.6 million, when Crop_Year is 2015, to almost 232 million, when Crop_Year is 1997.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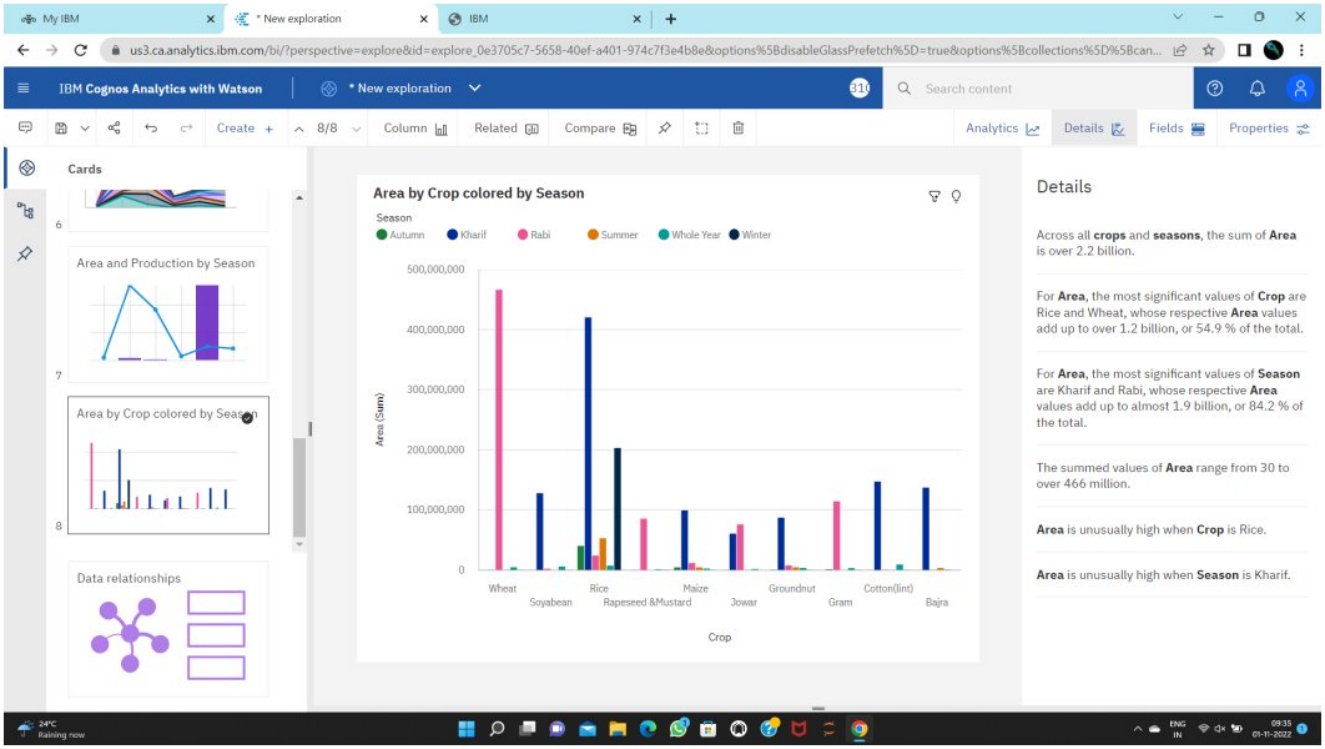
IBM Cognos Analytics with Watson
* New exploration
Search content
Create
17/17
Column
Related
Compare
Analytics
Details
Fields
Properties
Cards
15
Area and Produ...n by Crop_Year
16
Production by ...d by Crop_Year
17
Data relationships
Production by Crop colored by Crop_Year
Crop_Year
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008
2009 2010 2011 2012 2013 2014 2015
14,000,000,000
12,000,000,000
10,000,000,000
8,000,000,000
6,000,000,000
4,000,000,000
2,000,000,000
0
Production (Sum)
Wheat
Sugarcane
Soyabean
Rice
Potato
Maize
Jute
Cotton(lint)
Coconut
Banana
Crop
Details
For Production, the most significant values of Crop_Year are 2011 and 2013, whose respective Production values add up to approximately 27 billion, or 19.4 % of the total.
Production is most unusual when Crop_Year is 2015, 2011 and 1997.
For Production, the most significant value of Crop is Coconut, whose respective Production values add up to approximately 130 billion, or 92.9 % of the total.
Production is unusually high when Crop is Coconut.
Over all values of Crop and Crop_Year, the sum of Production is approximately 140 billion.
The summed values of Production range from 840.4 to approximately 14 billion.
24°C
Raining now
ENG
IN
09:43
01-11-2022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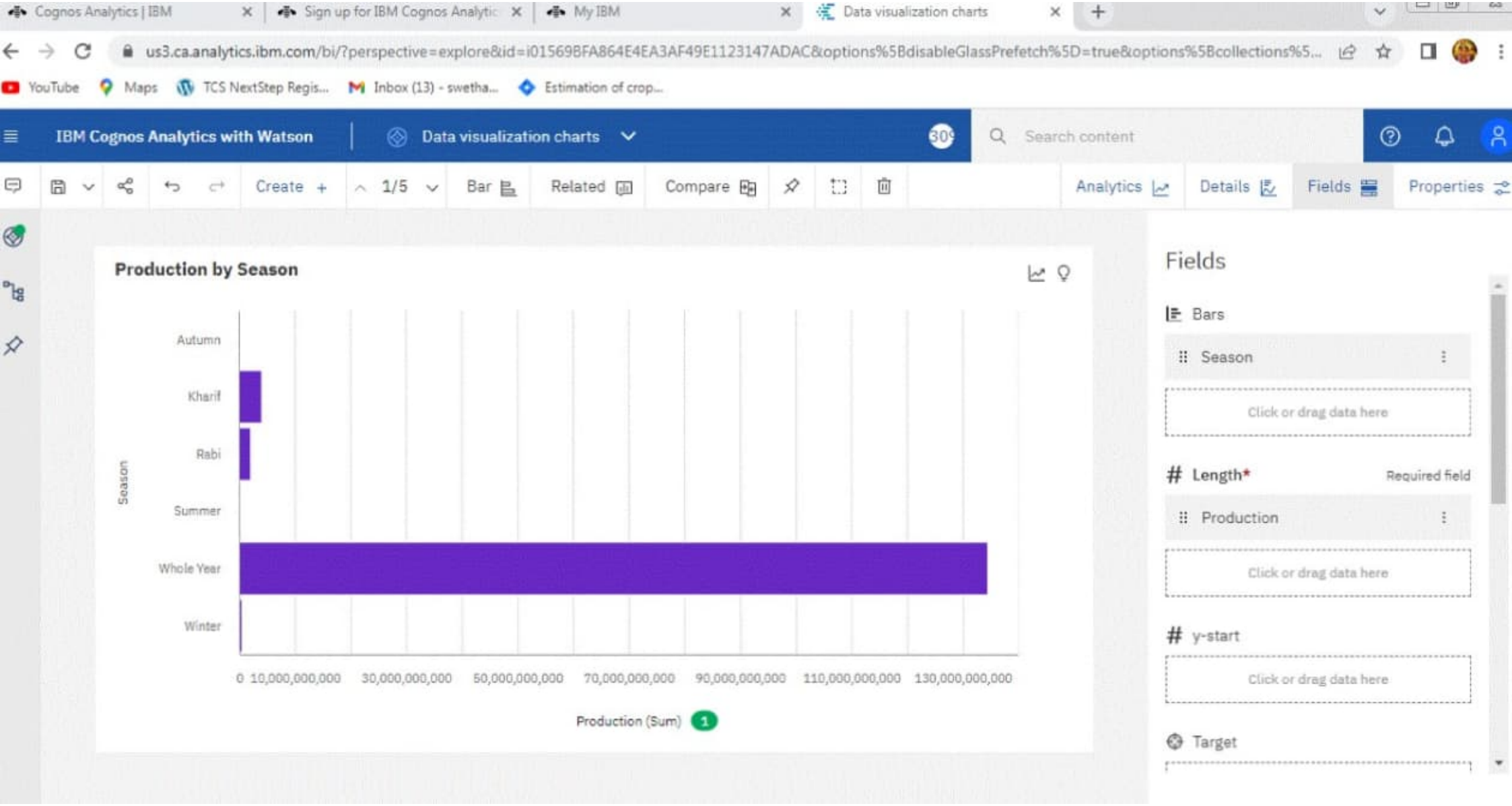
Search content
Create
8/8
Column
Related
Compare
Analytics
Details
Fields
Properties
Cards
Area and Production by Season
Area by Crop colored by Season
Data relationships
Area by Crop colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0
Area (Sum)
Wheat
Soyabean
Rice
Rapeseed &Mustard
Maize
Jowar
Groundnut
Gram
Cotton(lint)
Bajra
Crop
Details
Across all crops and seasons, the sum of Area is over 2.2 billion.
For Area, the most significant values of Crop are Rice and Wheat, whose respective Area values add up to over 1.2 billion, or 54.9 % of the total.
For Area, the most significant values of Season are Kharif and Rabi, whose respective Area values add up to almost 1.9 billion, or 84.2 % of the total.
The summed values of Area range from 30 to over 466 million.
Area is unusually high when Crop is Rice.
Area is unusually high when Season is Kharif.
24°C
Raining now
ENG
IN
09:35
01-11-2022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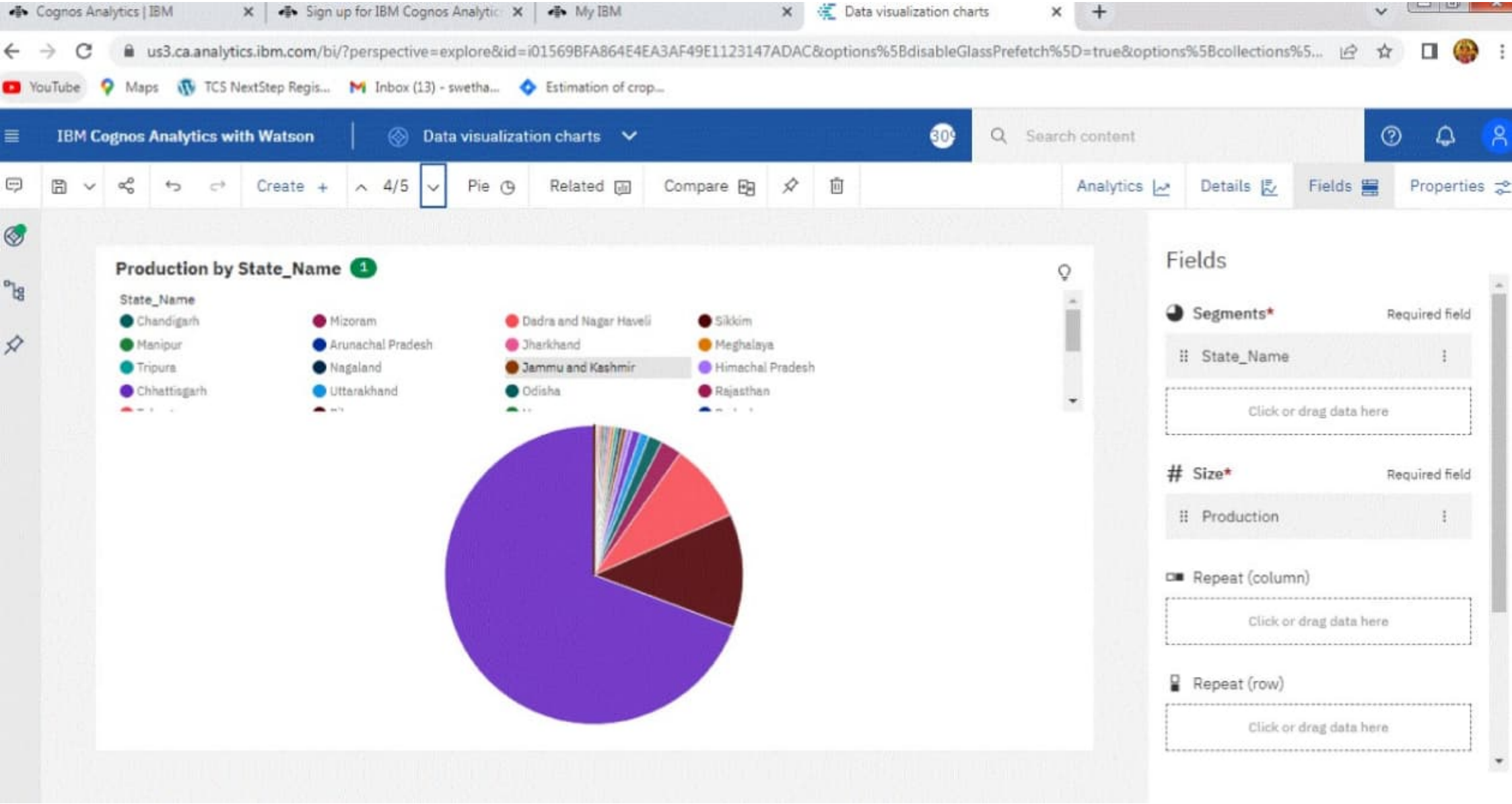
YouTube
Maps
TCS NextStep Regis...
Inbox (13) - swetha...
Estimation of crop...
IBM Cognos Analytics with Watson
Data visualization charts
Search content
Create
1/5
Bar
Related
Compare
Analytics
Details
Fields
Properties
Production by Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season
0
10,000,000,000
30,000,000,000
50,000,000,000
70,000,000,000
90,000,000,000
110,000,000,000
130,000,000,000
Production (Sum)
1
Fields
Bars
Season
Click or drag data here
Length*
Required field
Production
Click or drag data here
y-start
Click or drag data here
Target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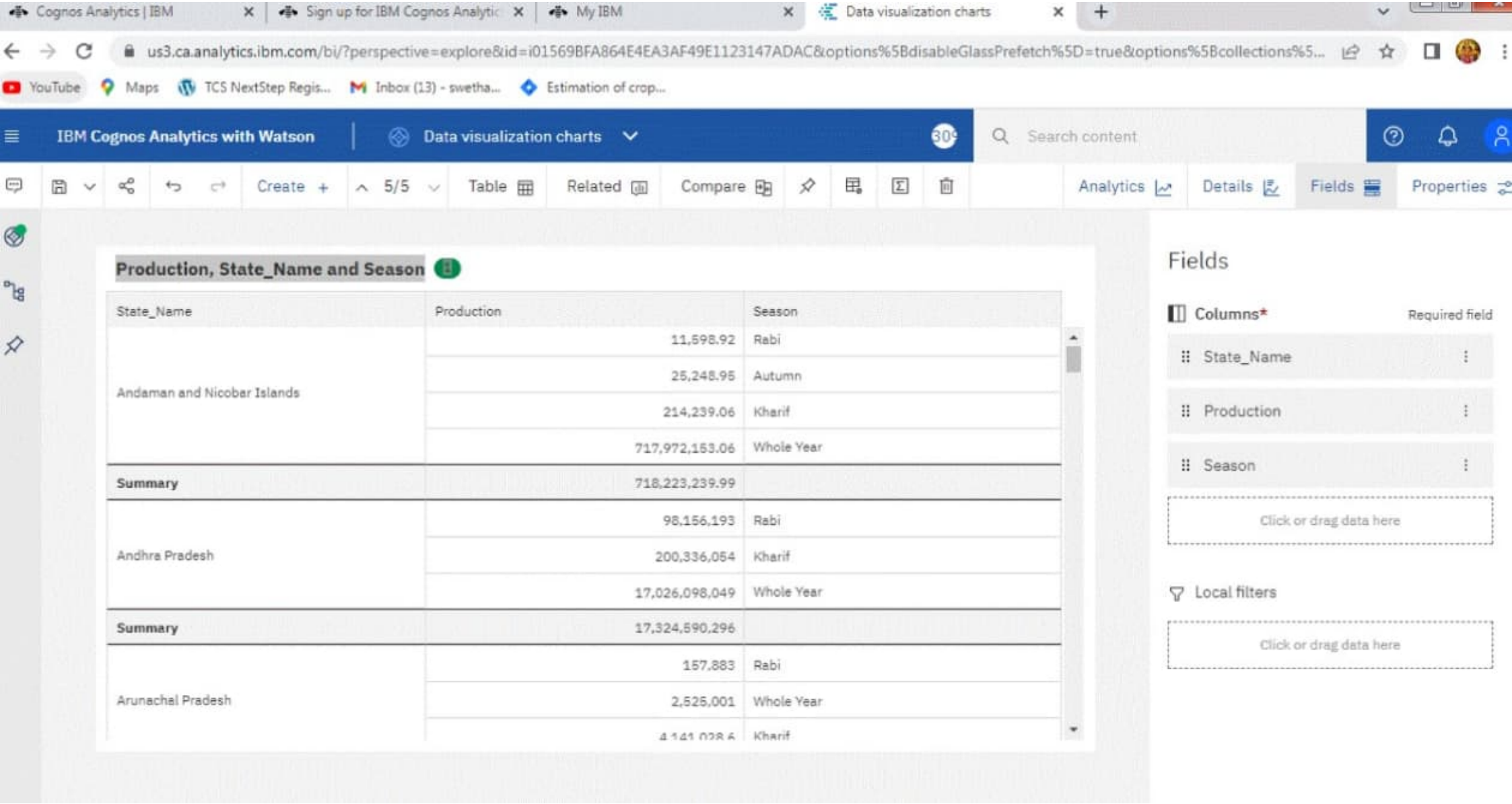
YouTube
Maps
TCS NextStep Regis...
Inbox (13) - swetha...
Estimation of crop...
IBM Cognos Analytics with Watson
Data visualization charts
Search content
Create
4/5
Pie
Related
Compare
Analytics
Details
Fields
Properties
Production by State_Name
1
State_Name
Chandigarh
Mizoram
Dadra and Nagar Haveli
Sikkim
Manipur
Arunachal Pradesh
Jharkhand
Meghalaya
Tripura
Nagaland
Jammu and Kashmir
Himachal Pradesh
Chhattisgarh
Uttarakhand
Odisha
Rajasthan
Fields
Segments*
Required field
State_Name
Click or drag data here
Size*
Required field
Production
Repeat (column)
Click or drag data here
Repeat (row)
Click or drag data here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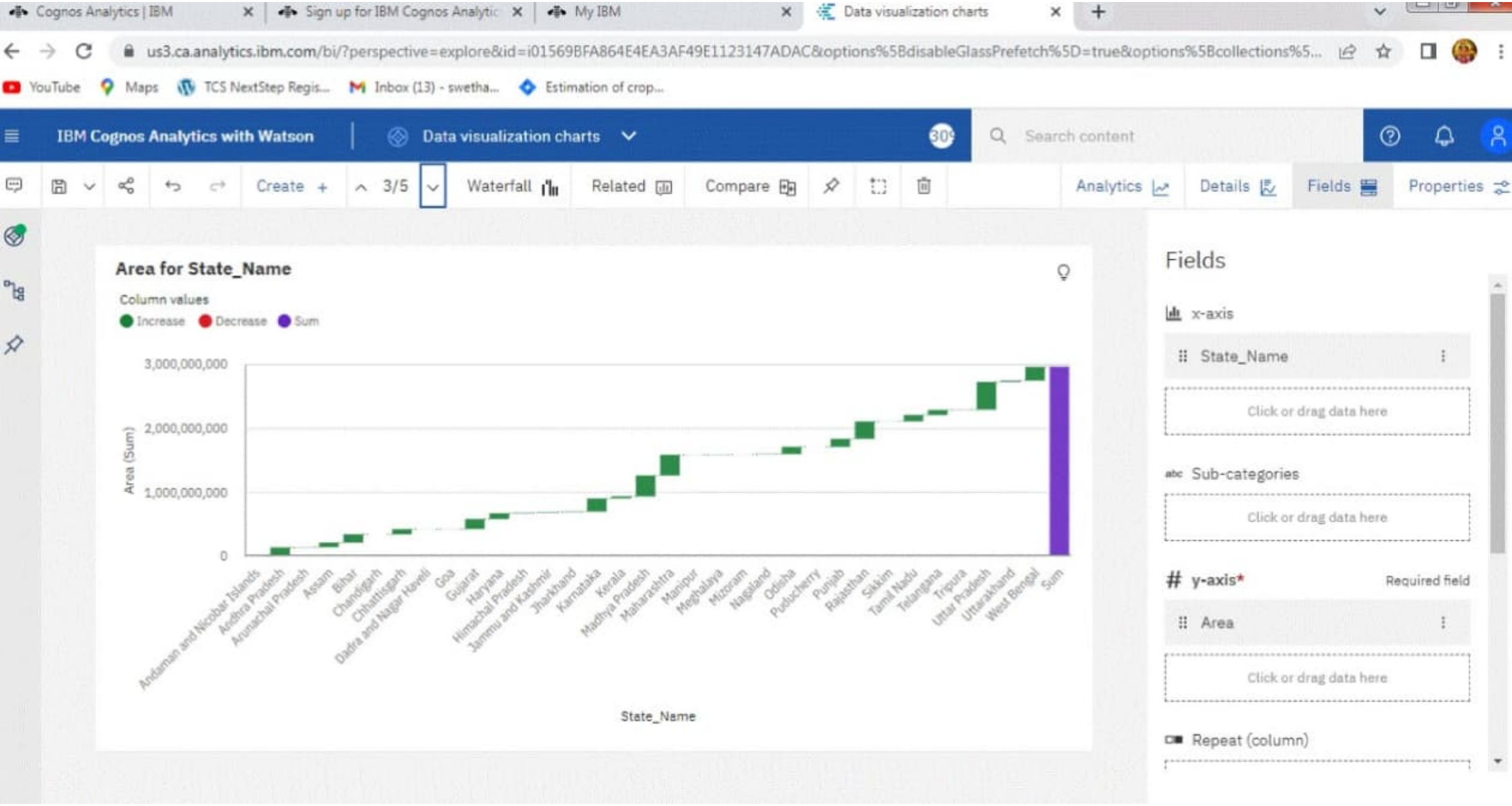
Fields
Properties
Production, State_Name and Season
State_Name
Production
Season
Andaman and Nicobar Islands
11,598.92
Rabi
25,248.95
Autumn
214,239.06
Kharif
717,972,153.06
Whole Year
Summary
718,223,239.99
Andhra Pradesh
98,156,193
Rabi
200,336,054
Kharif
17,026,098,049
Whole Year
Summary
17,324,590,296
Arunachal Pradesh
157,883
Rabi
2,525,001
Whole Year
Fields
Columns*
Required field
State_Name
Production
Season
Click or drag data here
Local filters
Click or drag data here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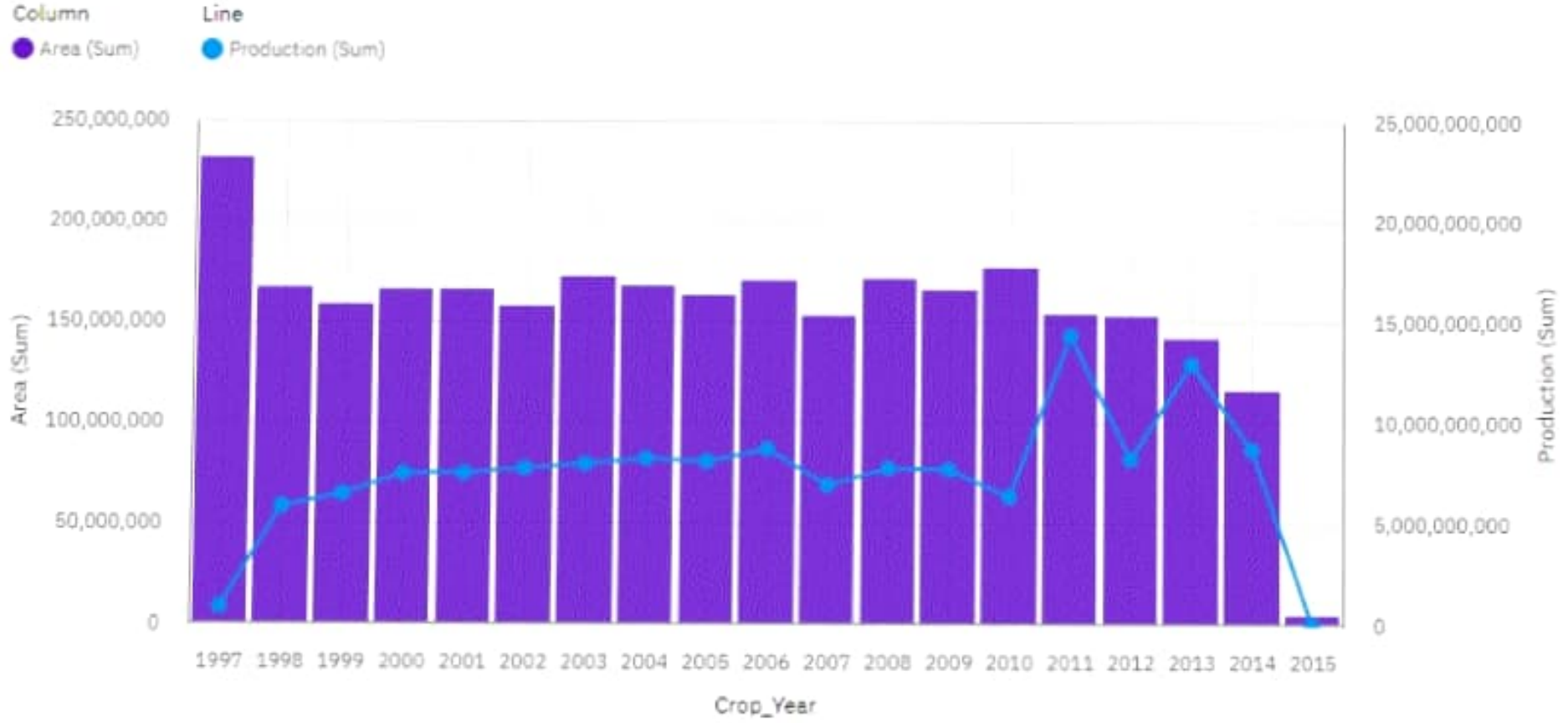
Fields
Properties
Area for State_Name
Column values
Increase
Decrease
Sum
3,000,000,000
2,000,000,000
1,000,000,000
0
Area (Sum)
Andaman and Nicobar Islands
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Dadra and Nagar Haveli
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Nagaland
Odisha
Puducherry
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
Sum
State_Name
Fields
x-axis
State_Name
Click or drag data here
Sub-categories
Click or drag data here
y-axis*
Required field
Area
Click or drag data here
Repeat (column)

Production and Area by Crop_Year