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

LINK :

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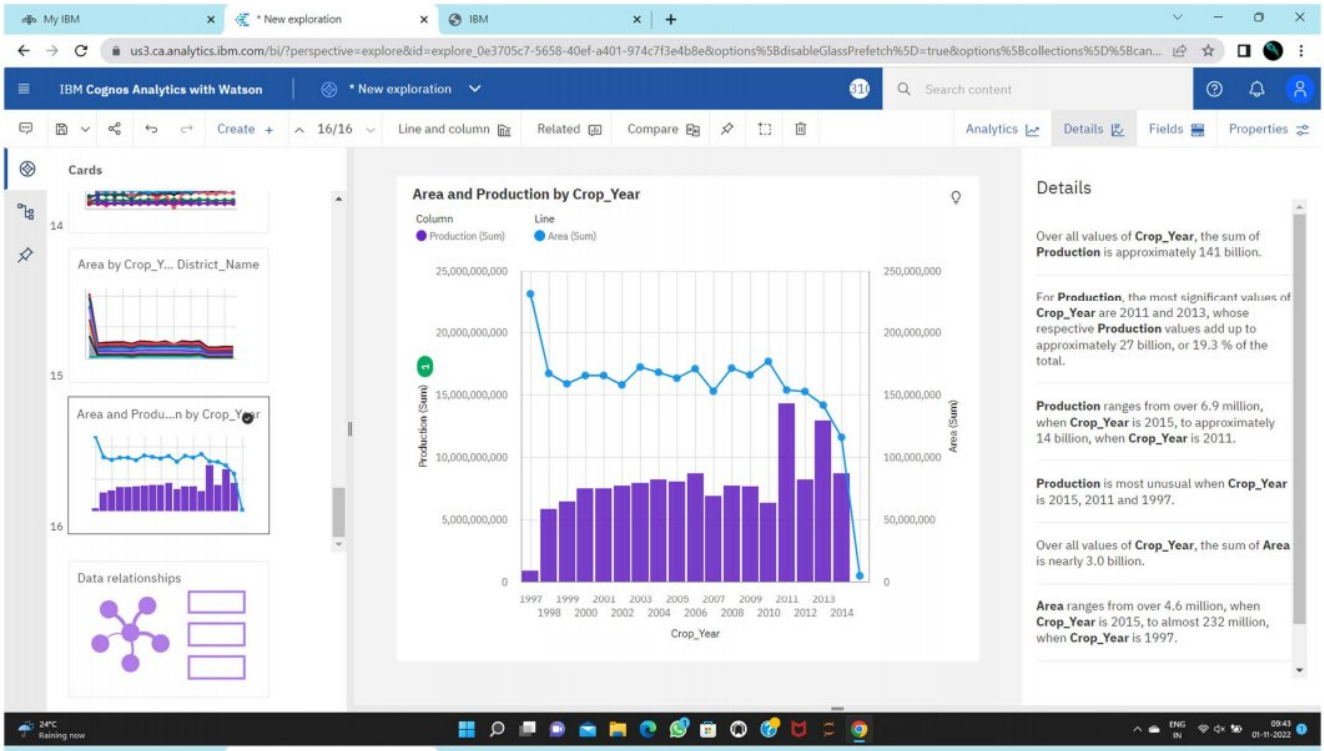
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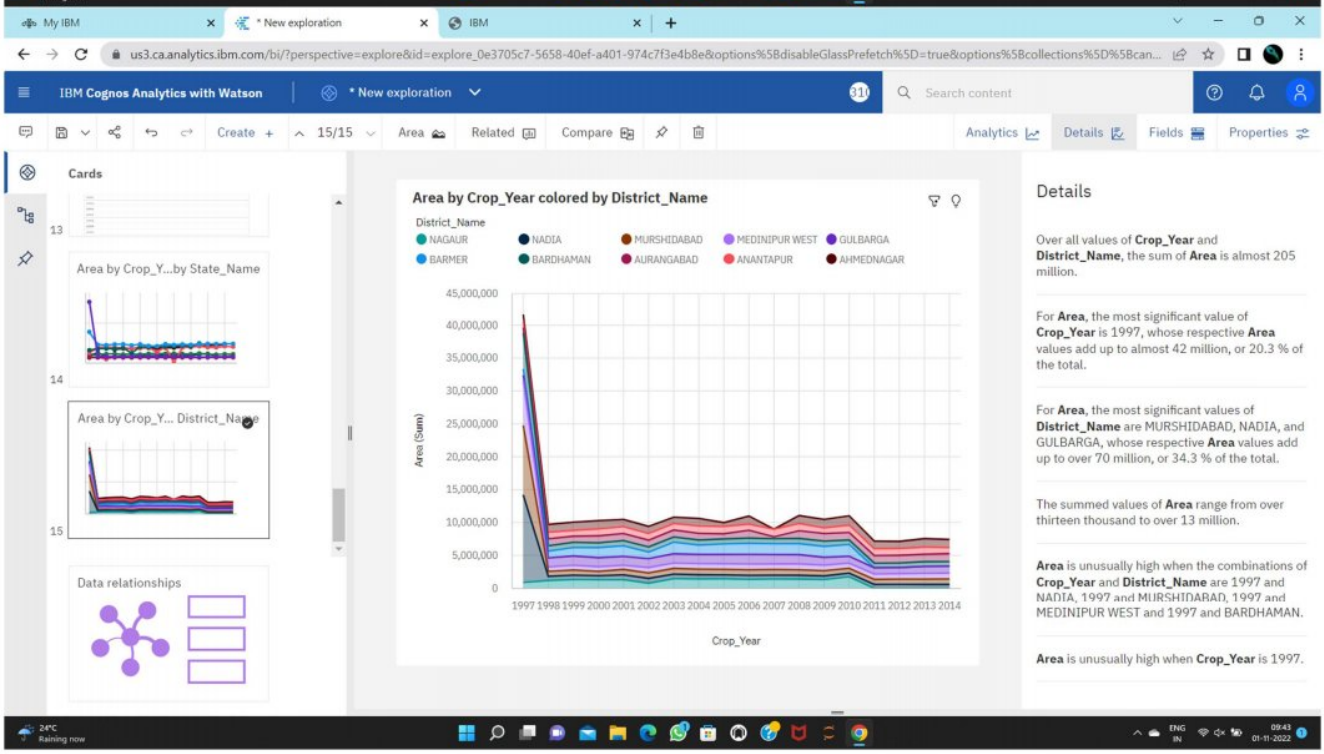
Search content
Create
16/16
Line and column
Related
Compare
Analytics
Details
Fields
Properties
Cards
Area by Crop_Y... District_Name
Area and Produ...n by Crop_Year
Data relationships
Area and Production by Crop_Year
Column
Production (Sum)
Line
Area (Sum)
Production (Sum)
Area (Sum)
Crop_Year
Details
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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Search content
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Details
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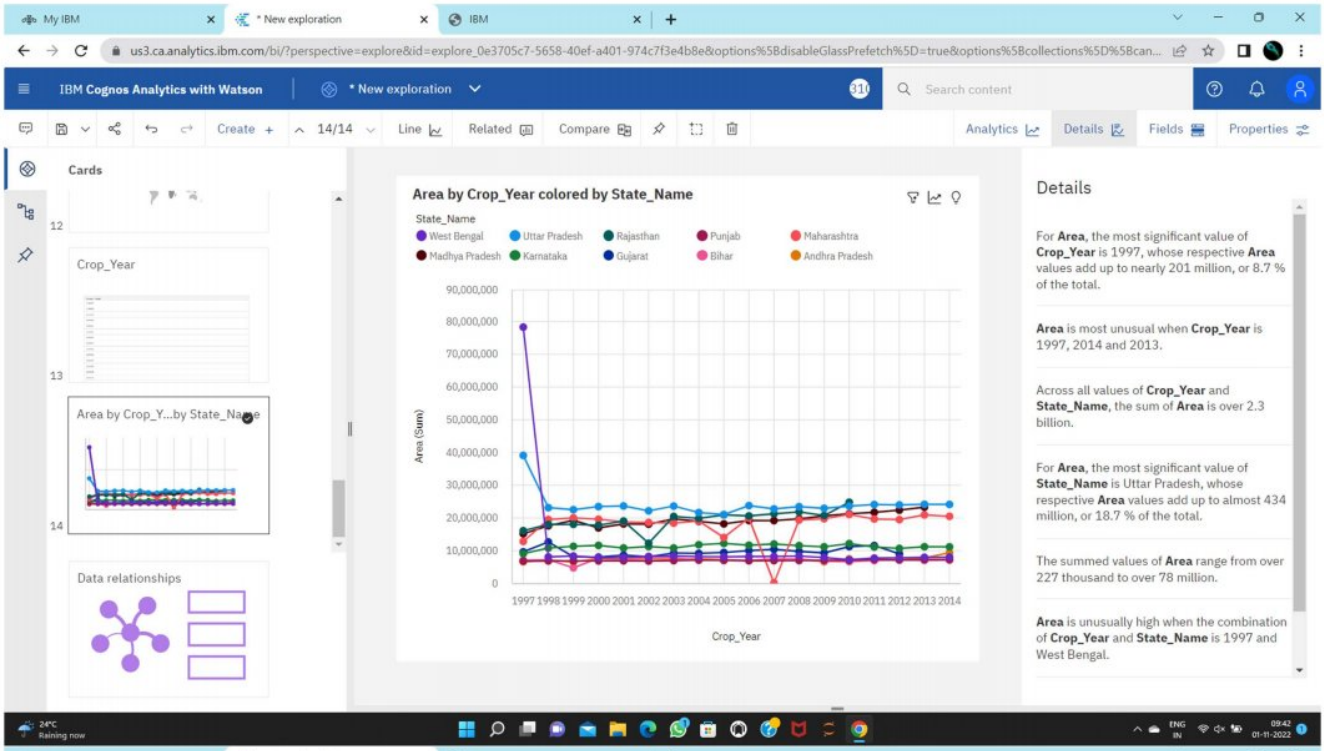
Cards
Area by Crop_Y...by State_Name
Area by Crop_Y... District_Name
Data relationships
Area by Crop_Year colored by District_Name
District_Name
NAGAUR
NADIA
MURSHIDABAD
MEDINIPUR WEST
GULBARGA
BARMER
BARDHAMAN
AURANGABAD
ANANTAPUR
AHMEDNAGAR
Area (Sum)
Crop_Year
Details
Over all values of Crop_Year 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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Search content
Create
14/14
Line
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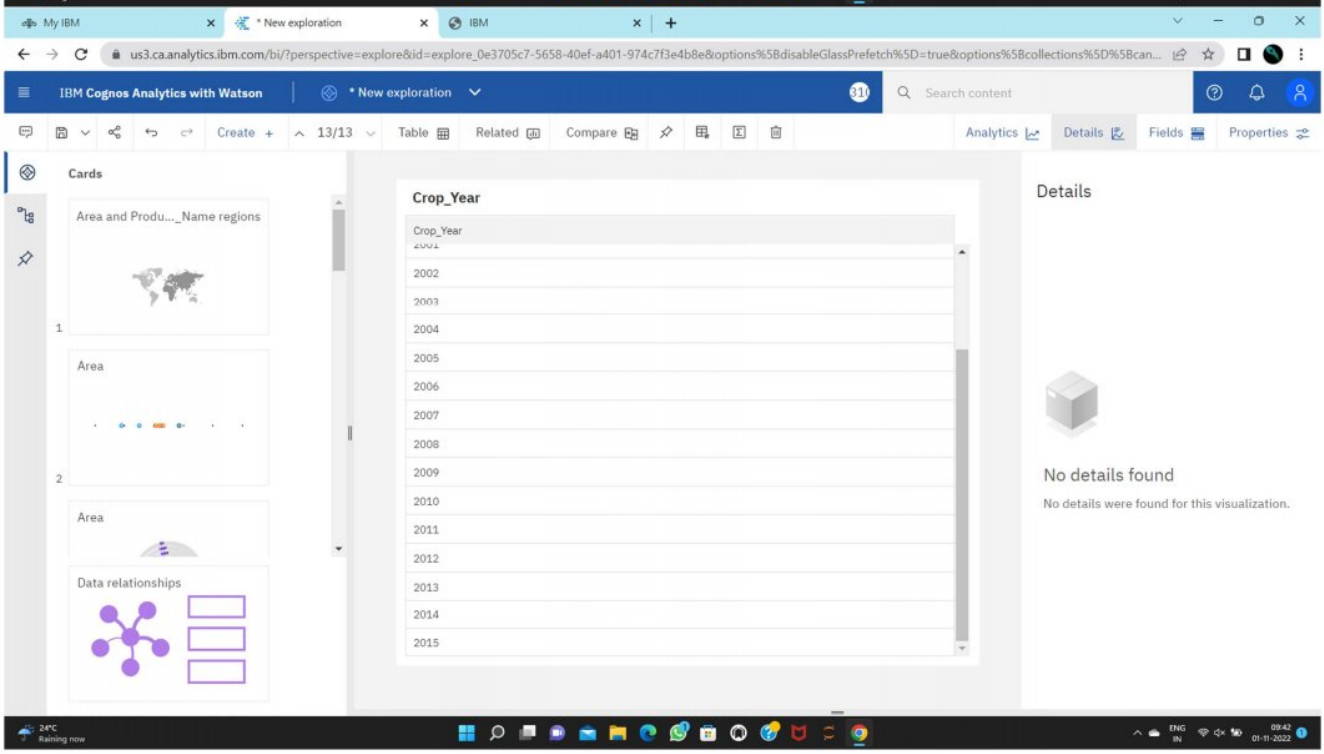
Compare
Analytics
Details
Fields
Properties
Cards
Crop_Year
Area by Crop_Y...by State_Name
Data relationships
Area by Crop_Year colored by State_Name
State_Name
West Bengal
Uttar Pradesh
Rajasthan
Punjab
Maharashtra
Madhya Pradesh
Karnataka
Gujarat
Bihar
Andhra Pradesh
Area (Sum)
Crop_Year
Details
For Area, the most significant value of Crop_Year is 1997, whose respective Area values add up to nearly 201 million, or 8.7 % of the total.
Area is most unusual when Crop_Year is 1997, 2014 and 2013.
Across all values of Crop_Year and State_Name, the sum of Area is over 2.3 billion.
For Area, the most significant value of State_Name is Uttar Pradesh, whose respective Area values add up to almost 434 million, or 18.7 % of the total.
The summed values of Area range from over 227 thousand to over 78 million.
Area is unusually high when the combination of Crop_Year and State_Name is 1997 and West Bengal.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Search content
Create
13/13
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Related
Compare
Analytics
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Fields
Properties
Cards
Area and Produ..._Name regions
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Data relationships
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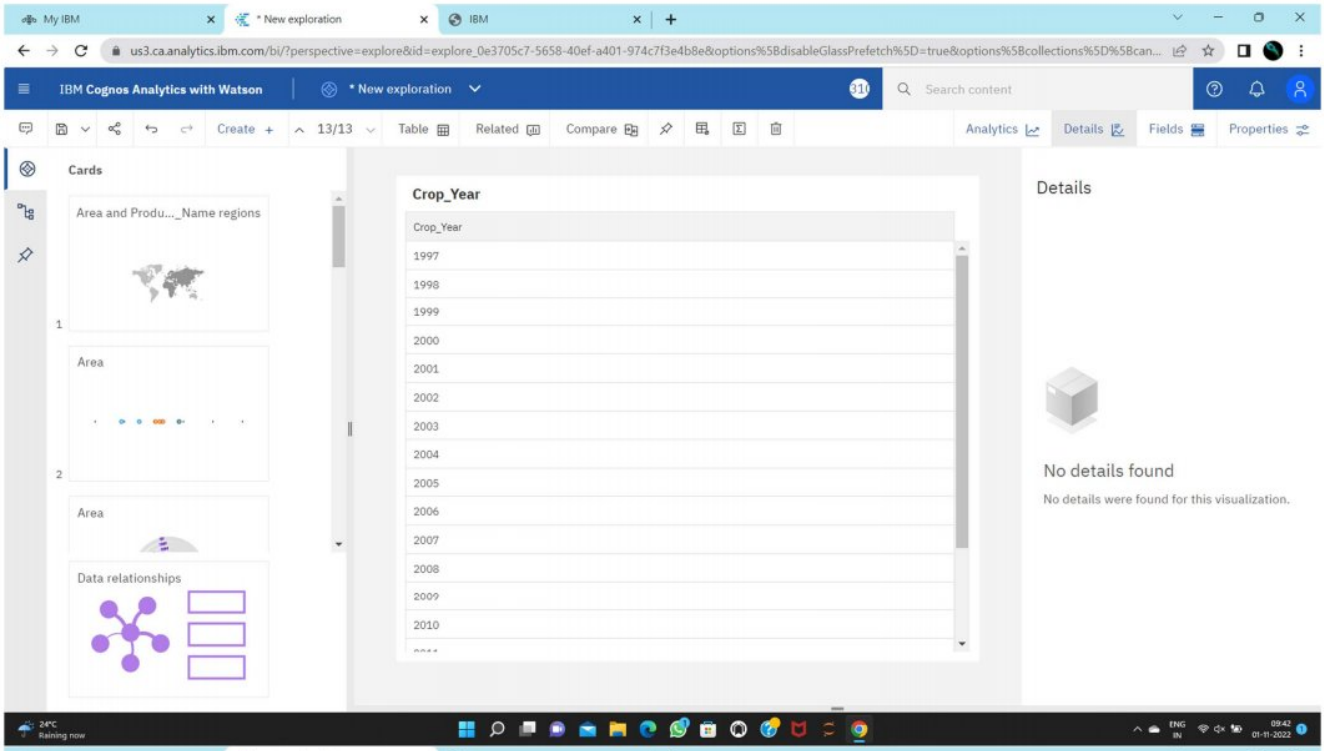
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Data relationships
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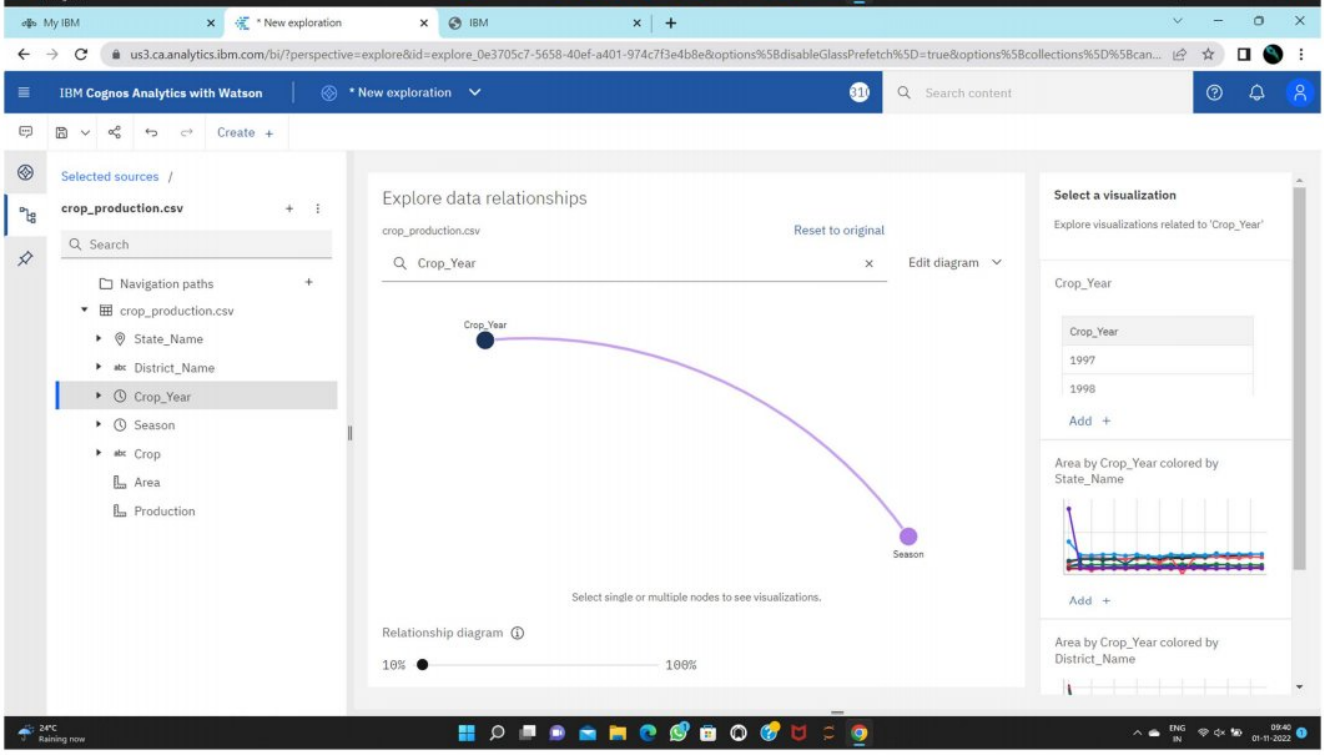
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State_Name
District_Name
Crop_Year
Season
Crop
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Production
Explore data relationships
crop_production.csv
Reset to original
Crop_Year
Edit diagram
Crop_Year
Season
Select single or multiple nodes to see visualizations.
Relationship diagram
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Select a visualization
Explore visualizations related to 'Crop_Year'
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1997
1998
Add
Area by Crop_Year colored by State_Name
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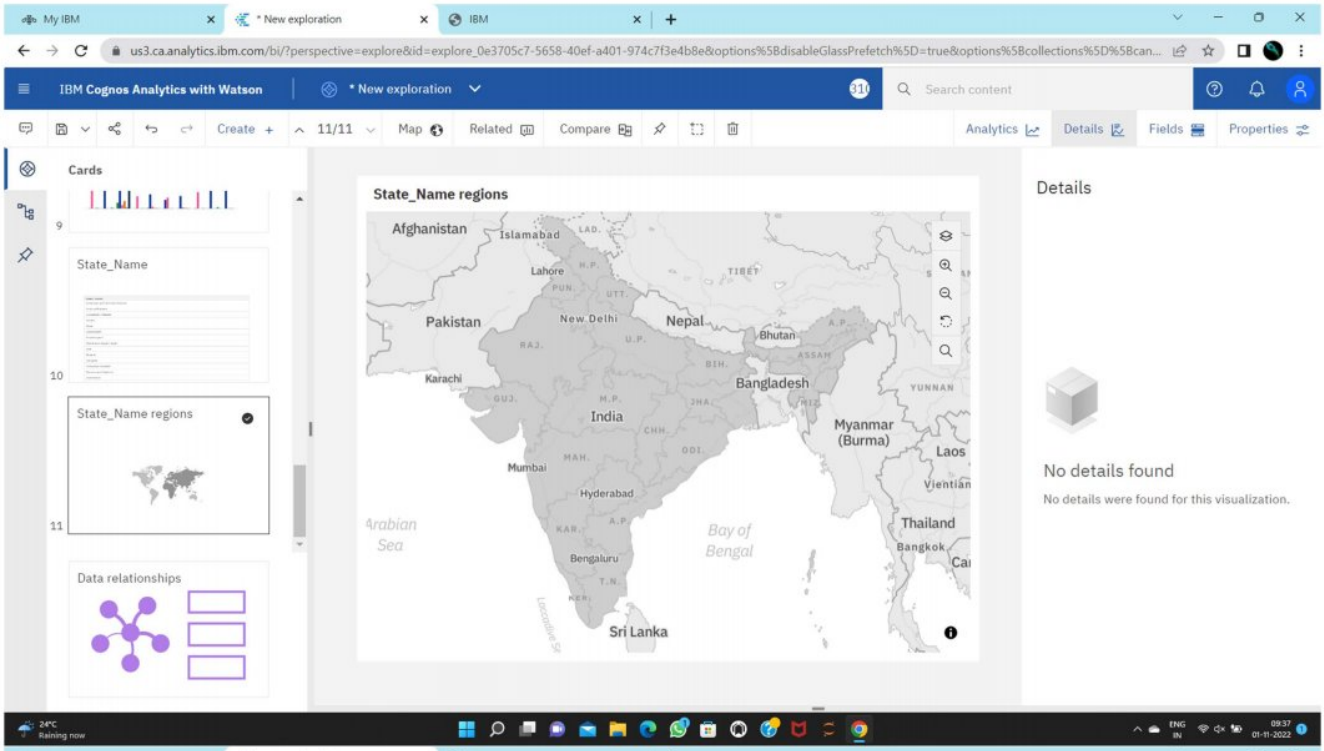
Area by Crop_Year colored by District_Name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Search content
Create
11/11
Map
Related
Compare
Analytics
Details
Fields
Properties
Cards
State_Name
State_Name regions
Data relationships
State_Name regions
Afghanistan
Islamabad
Lahore
Pakistan
New Delhi
Nepal
Bhutan
Karachi
Bangladesh
India
Myanmar (Burma)
Laos
Mumbai
Hyderabad
Thailand
Bangkok
Arabian Sea
Bay of Bengal
Bengaluru
Sri Lanka
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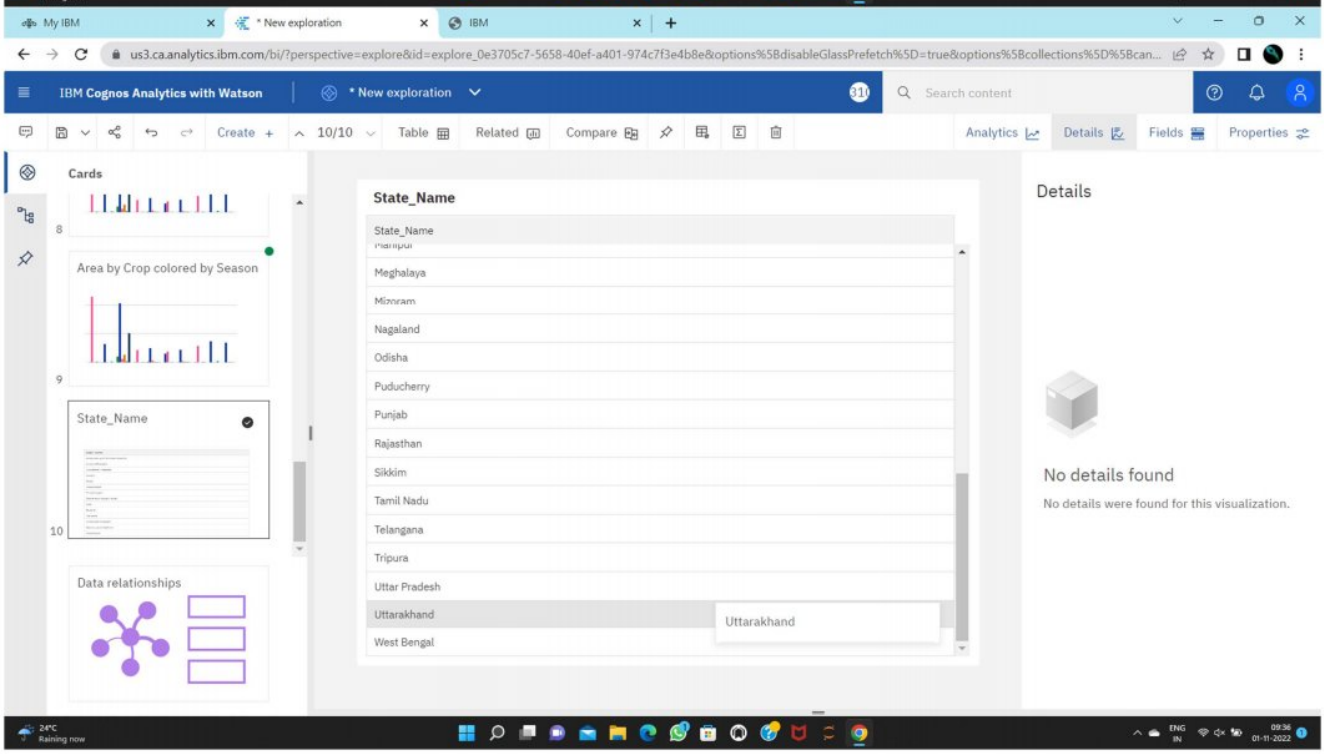
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Search content
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10/10
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Analytics
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Area by Crop colored by Season
State_Name
Data relationships
State_Name
State_Name
Meghalaya
Mizoram
Nagaland
Odisha
Puducherry
Punjab
Rajasthan
Sikkim
Tamil Nadu
Telangana
Tripura
Uttar Pradesh
Uttarakhand
West Bengal
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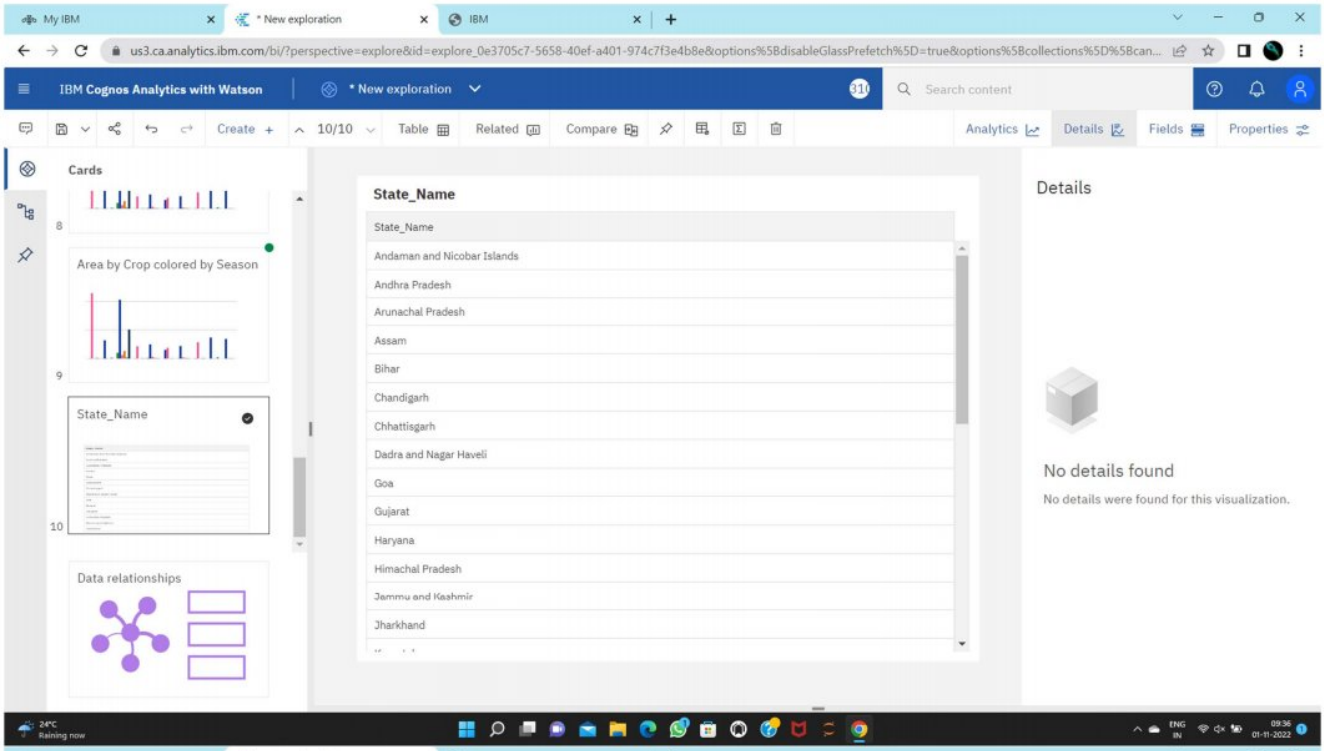
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Table
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Details
Fields
Properties
Cards
Area by Crop colored by Season
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Data relationships
State_Name
State_Name
Andaman and Nicobar Islands
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Dadra and Nagar Haveli
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
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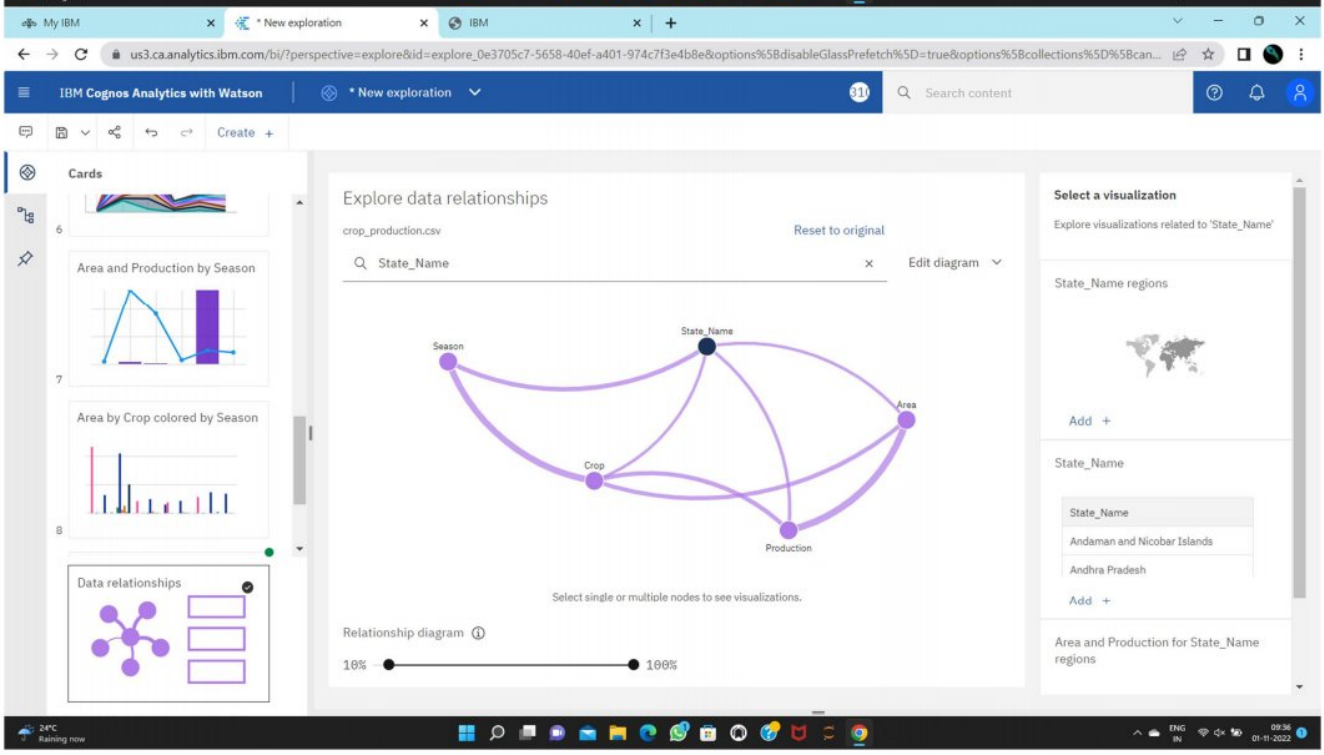
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Area and Production by Season
Area by Crop colored by Season
Data relationships
Explore data relationships
crop_production.csv
Reset to original
State_Name
Edit diagram
Season
State_Name
Area
Crop
Production
Select single or multiple nodes to see visualizations.
Relationship diagram
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Explore visualizations related to 'State_Name'
State_Name regions
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Andaman and Nicobar Islands
Andhra Pradesh
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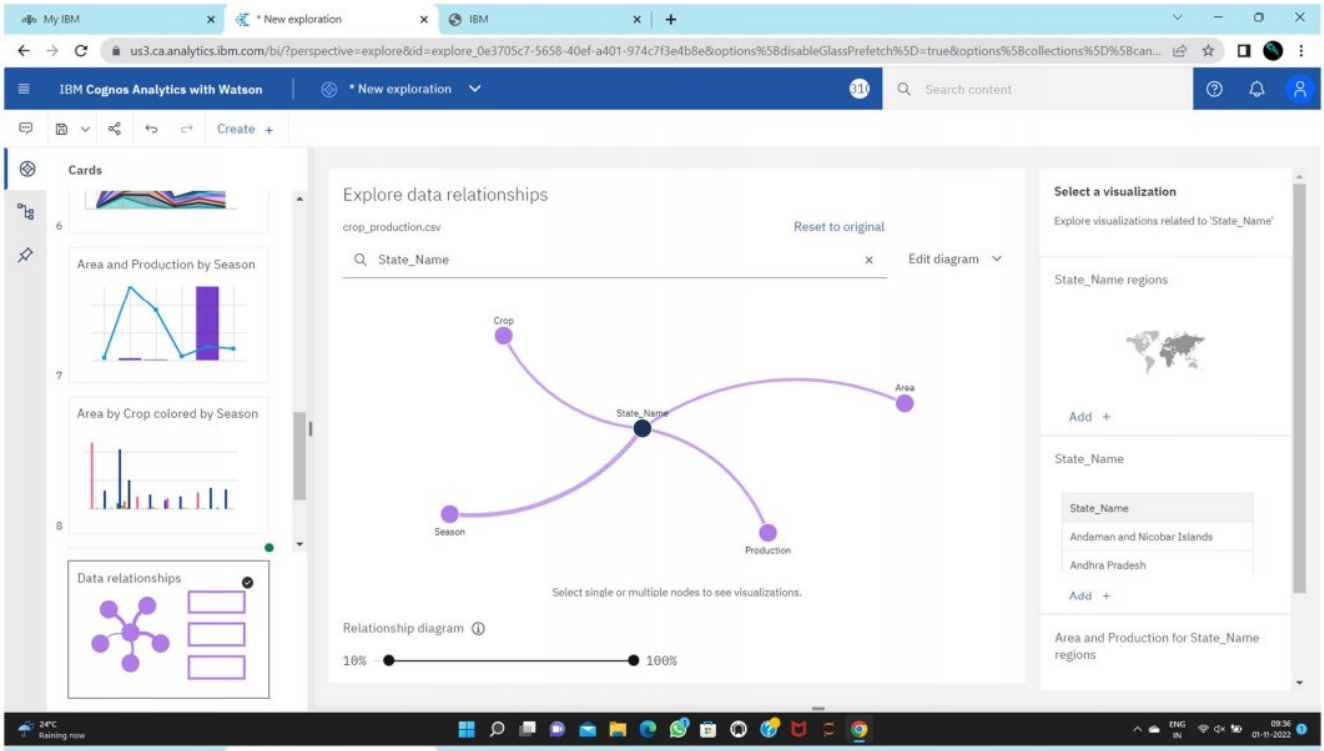
Area and Production for State_Name regions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State_Name
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Crop
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Select single or multiple nodes to see visualizations.
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State_Name regions
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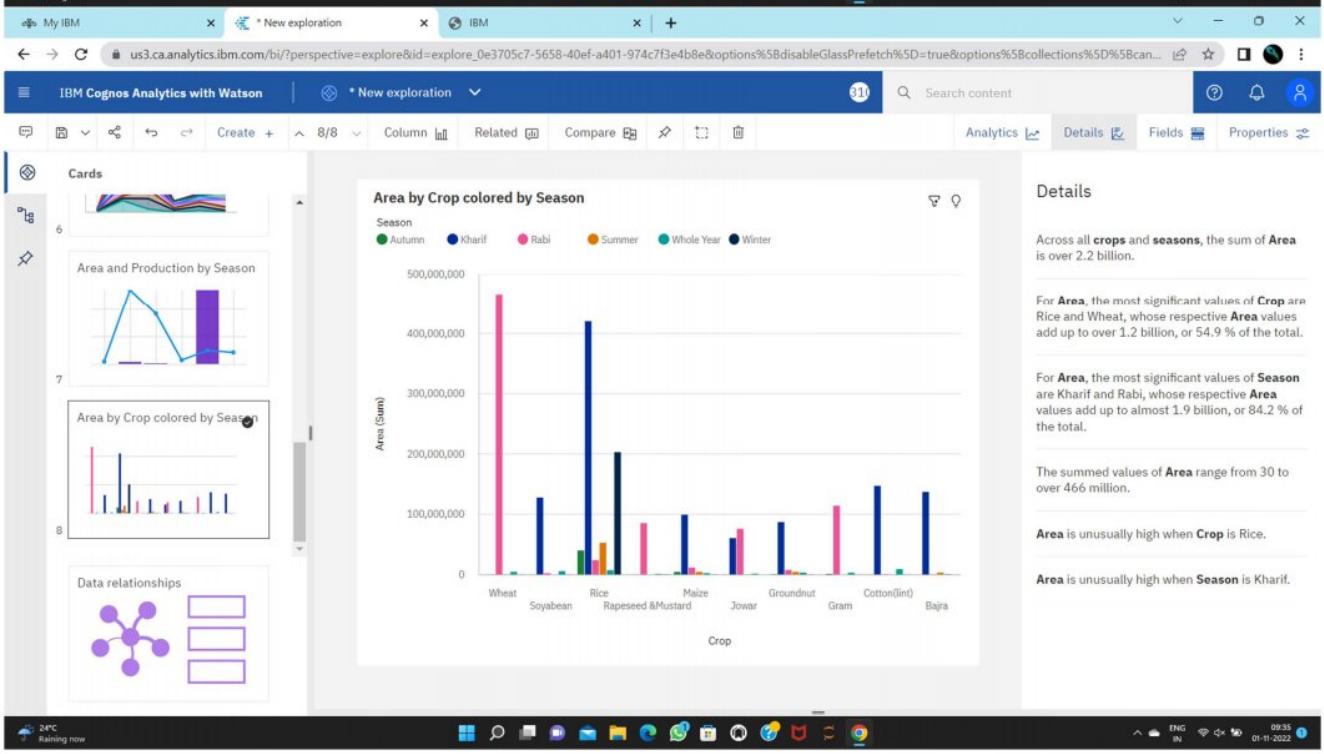
State_Name
State_Name
Andaman and Nicobar Islands
Andhra Pradesh
Add
Area and Production for State_Name regions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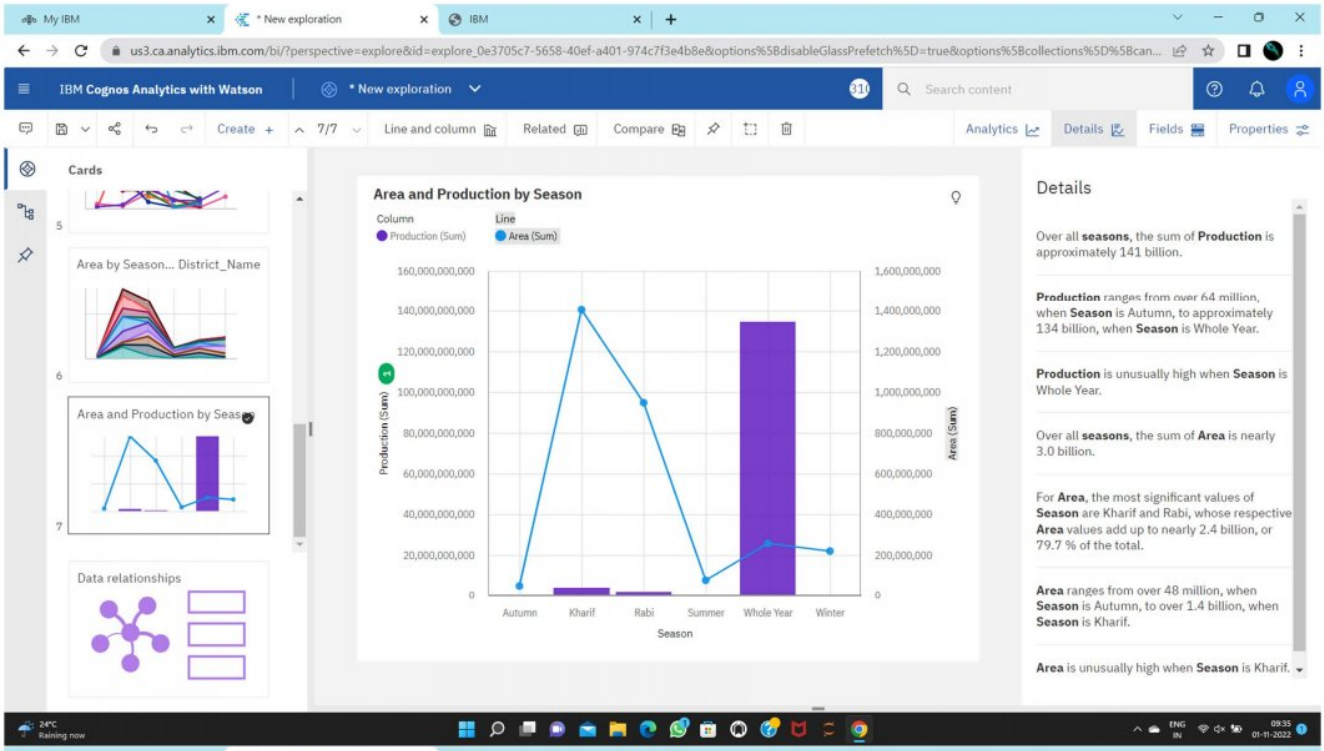
Area and Production by Season
Area by Crop colored by Season
Data relationships
Area by Crop colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0
Area (Sum)
Wheat
Soyabean
Rice
Rapeseed &Mustard
Maize
Jowar
Groundnut
Gram
Cotton(lint)
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.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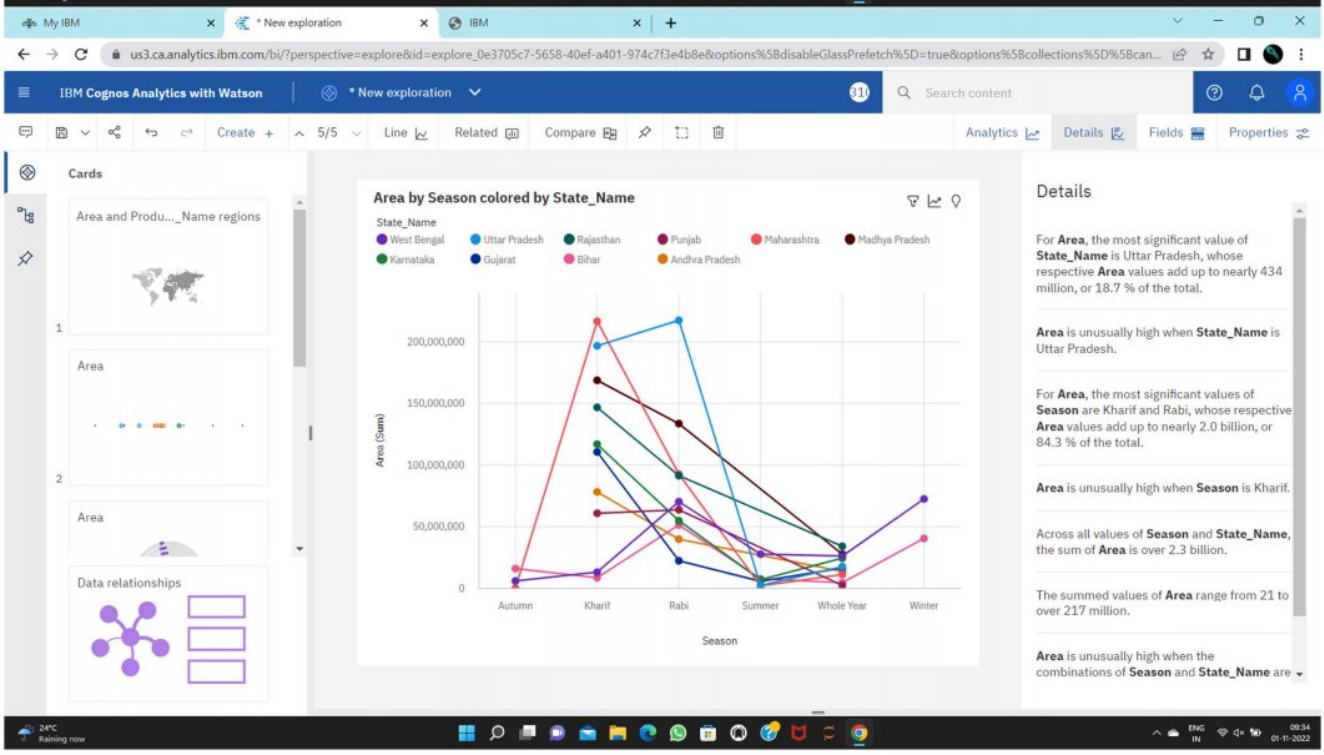
Area by Season... District_Name
Area and Production by Seas...
Data relationships
Area and Production by Season
Column
Production (Sum)
Line
Area (Sum)
Production (Sum)
Area (Sum)
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season
Details
Over all seasons, the sum of Production is approximately 141 billion.
Production ranges from over 64 million, when Season is Autumn, to approximately 134 billion, when Season is Whole Year.
Production is unusually high when Season is Whole Year.
Over all seasons, the sum of Area is nearly 3.0 billion.
For Area, the most significant values of Season are Kharif and Rabi, whose respective Area values add up to nearly 2.4 billion, or 79.7 % of the total.
Area ranges from over 48 million, when Season is Autumn, to over 1.4 billion, when Season is Kharif.
Area is unusually high when Season is Kharif.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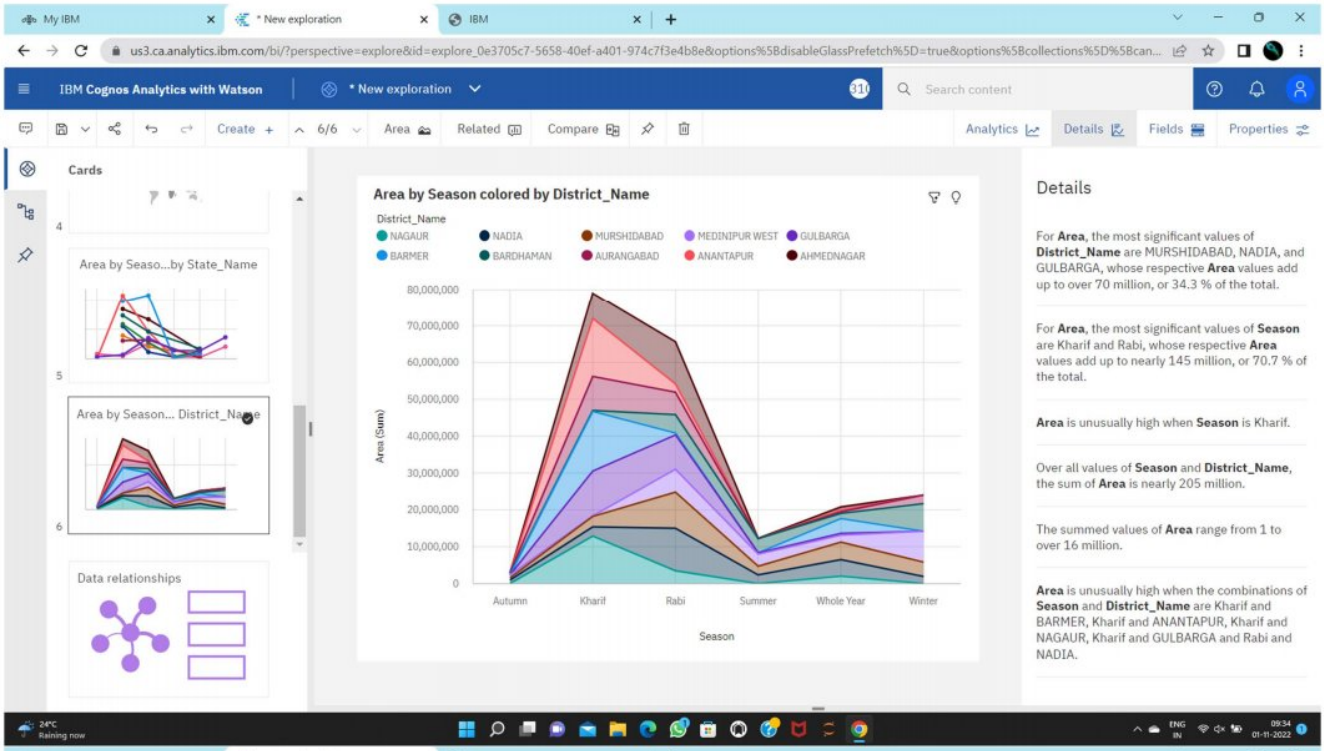
Data relationships
Area by Season colored by State_Name
State_Name
West Bengal
Uttar Pradesh
Rajasthan
Punjab
Maharashtra
Madhya Pradesh
Karnataka
Gujarat
Bihar
Andhra Pradesh
Area (Sum)
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season
Details
For Area, the most significant value of State_Name is Uttar Pradesh, whose respective Area values add up to nearly 434 million, or 18.7 % of the total.
Area is unusually high when State_Name is Uttar Pradesh.
For Area, the most significant values of Season are Kharif and Rabi, whose respective Area values add up to nearly 2.0 billion, or 84.3 % of the total.
Area is unusually high when Season is Kharif.
Across all values of Season and State_Name, the sum of Area is over 2.3 billion.
The summed values of Area range from 21 to over 217 million.
Area is unusually high when the combinations of Season and State_Name are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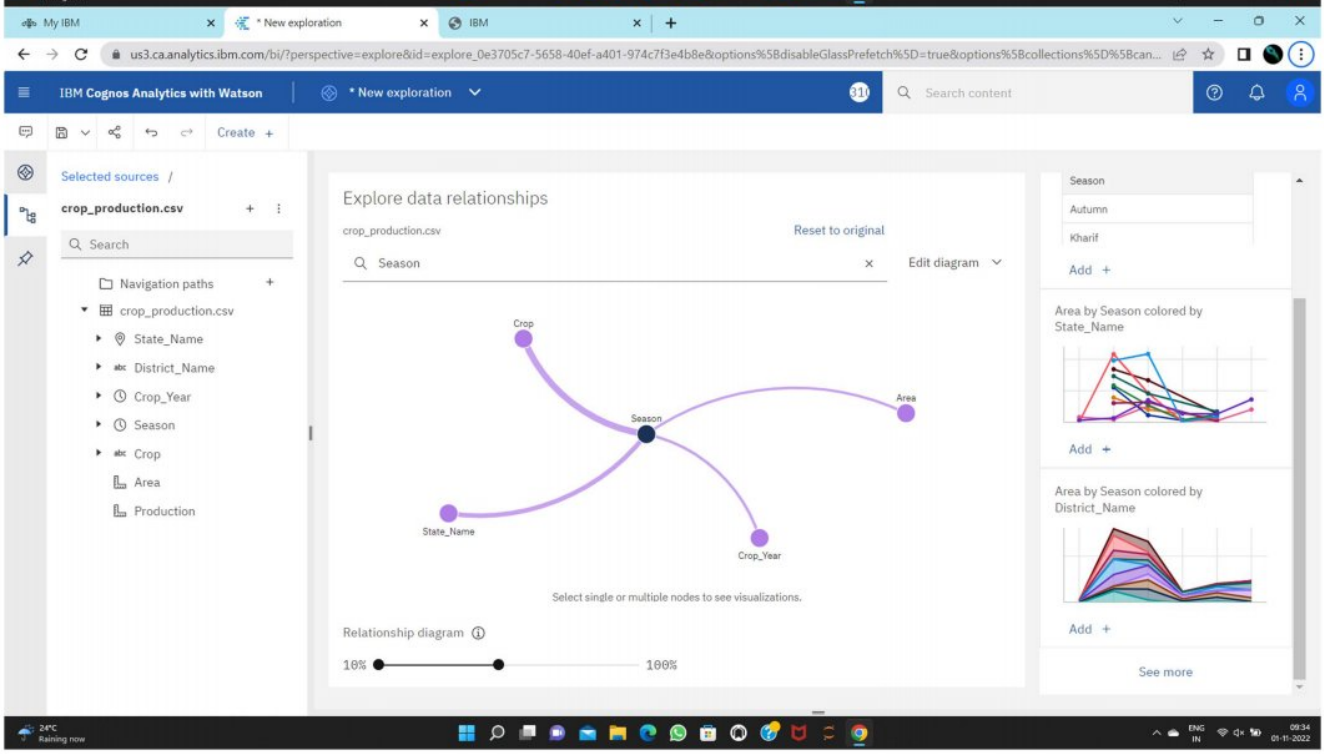
Area by Season... District_Name
Data relationships
Area by Season colored by District_Name
District_Name
NAGAUR
NADIA
MURSHIDABAD
MEDINIPUR WEST
GULBARGA
BARMER
BARDHAMAN
AURANGABAD
ANANTAPUR
AHMEDNAGAR
80,000,000
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
0
Area (Sum)
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season
Details
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.
For Area, the most significant values of Season are Kharif and Rabi, whose respective Area values add up to nearly 145 million, or 70.7 % of the total.
Area is unusually high when Season is Kharif.
Over all values of Season and District_Name, the sum of Area is nearly 205 million.
The summed values of Area range from 1 to over 16 million.
Area is unusually high when the combinations of Season and District_Name are Kharif and BARMER, Kharif and ANANTAPUR, Kharif and NAGAUR, Kharif and GULBARGA and Rabi and NADIA.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Search content
Create
Selected sources /
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Navigation paths
crop_production.csv
State_Name
District_Name
Crop_Year
Season
Crop
Area
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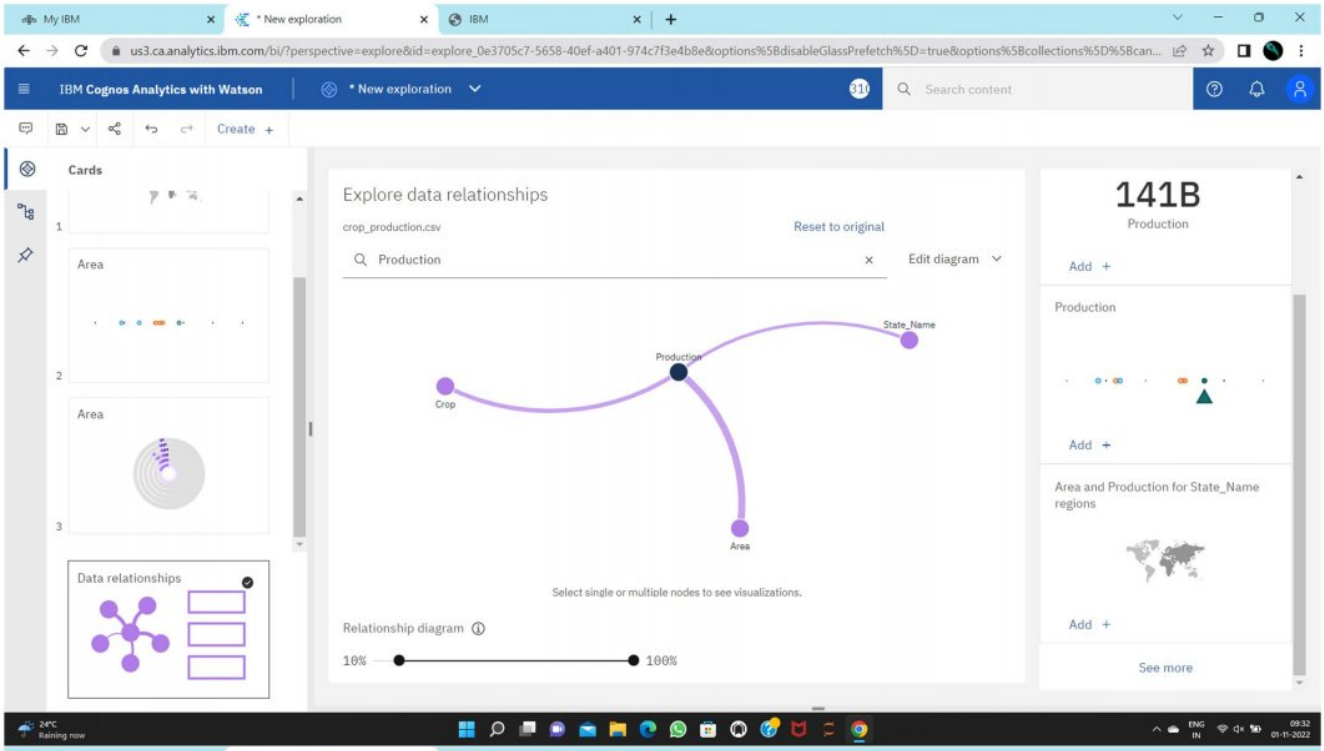
Explore data relationships
crop_production.csv
Reset to original
Season
Edit diagram
Crop
Season
Area
State_Name
Crop_Year
Select single or multiple nodes to see visualizations.
Relationship diagram
10%
100%
Season
Autumn
Kharif
Add
Area by Season colored by State_Name
Add
Area by Season colored by District_Name
Add
See more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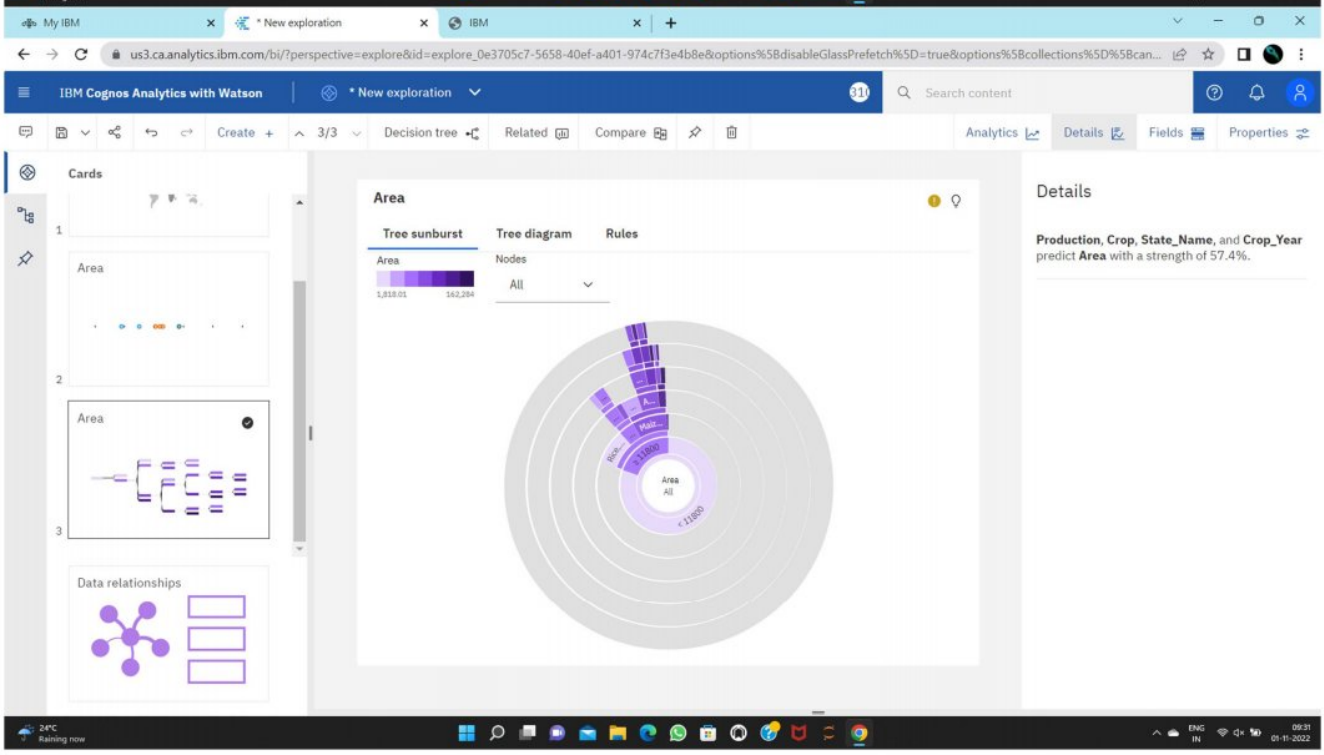
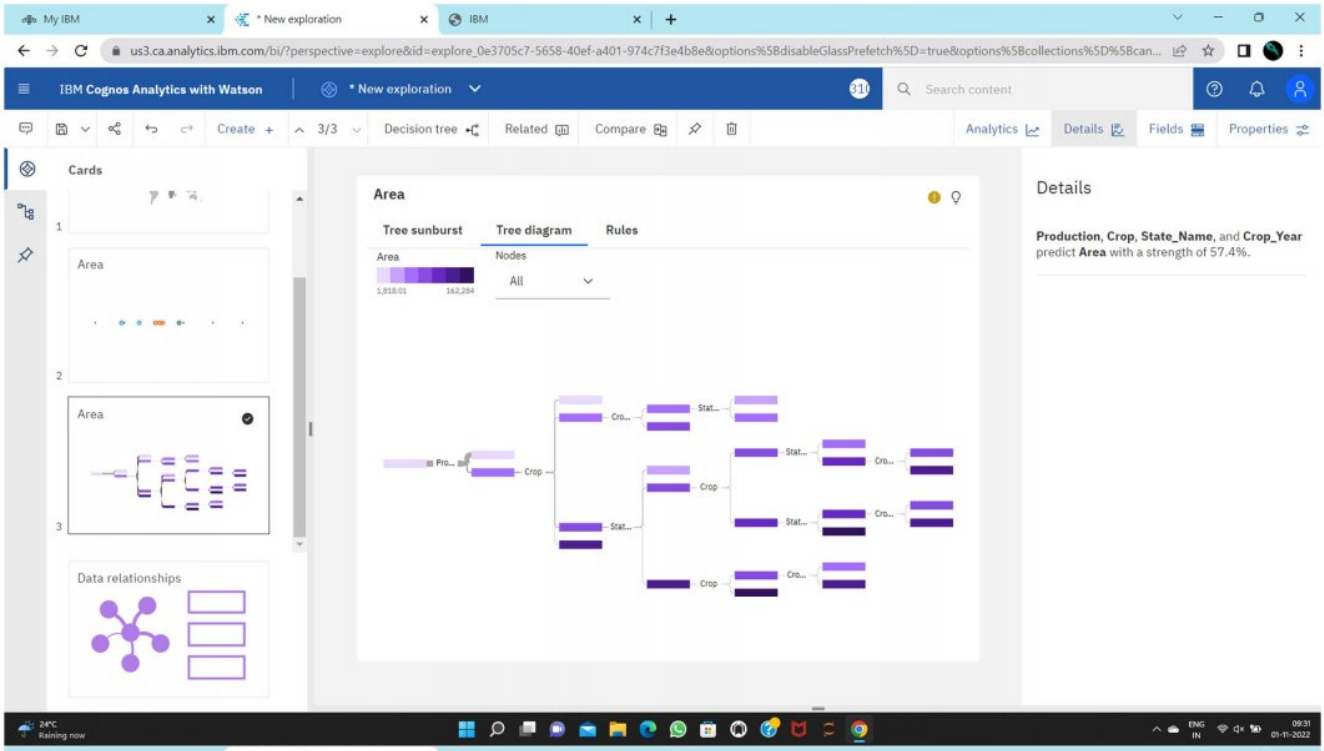
Search content
Create
Cards
Area
Area
Data relationships
Explore data relationships
crop_production.csv
Reset to original
Production
Edit diagram
State_Name
Production
Crop
Area
Select single or multiple nodes to see visualizations.
Relationship diagram
10%
100%
141B
Production
Add
Production
Add
Area and Production for State_Name regions
Add
See more
24°C
Raining now
ENG
IN
09:32
01-11-2022


My IBM
* New exploration
IBM
us3.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_0e3705c7-5658-40ef-a401-974c7f3e4b8e&options%5BdisableGlassPrefetch%5D=true&options%5Bcollections%5D%5Bcan...
IBM Cognos Analytics with Watson
* New exploration
Search content
Create
3/3
Decision tree
Related
Compare
Analytics
Details
Fields
Properties
Cards
Area
Area
Data relationships
Area
Tree sunburst
Tree diagram
Rules
Area
1,818.01
162,284
Nodes
All
Details
Production, Crop, State_Name, and Crop_Year predict Area with a strength of 57.4%.
24°C
Raining now
ENG
IN
09:31
01-11-2022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* New exploration
IBM
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Search content
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3/3
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Area
Tree sunburst
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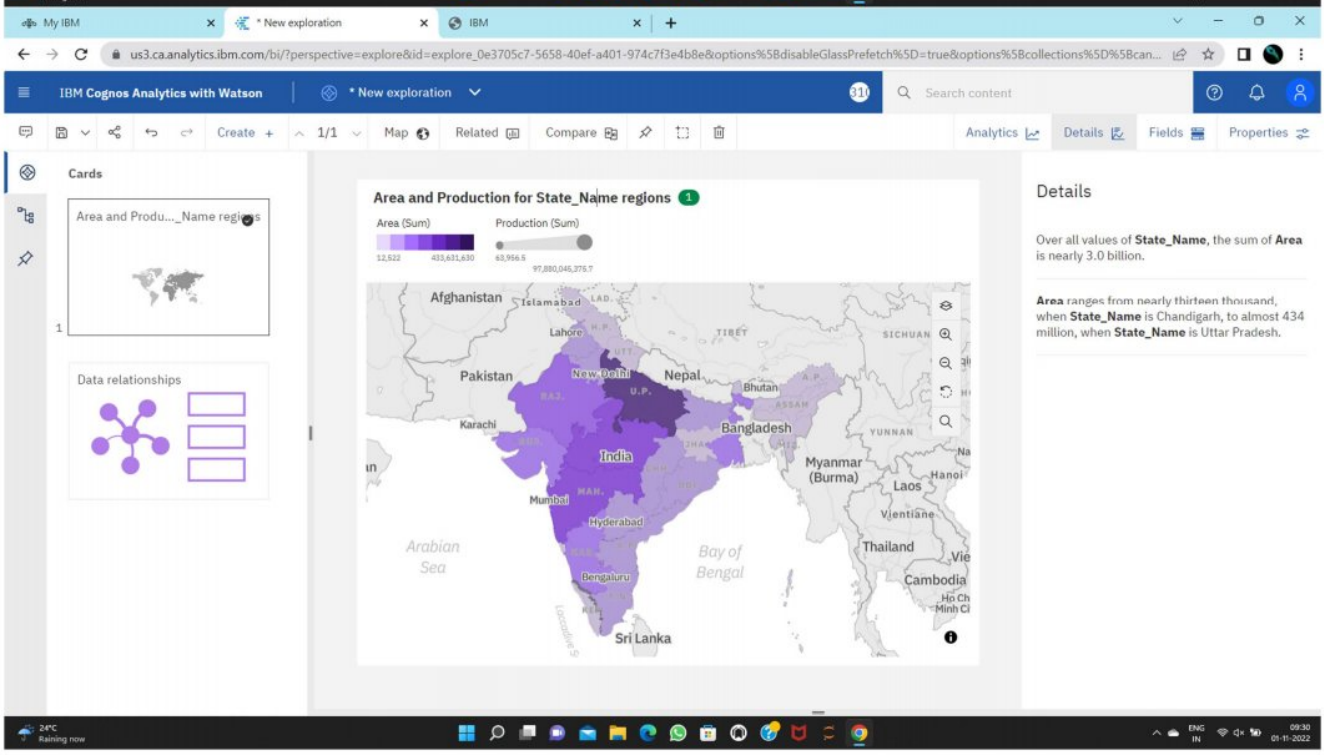
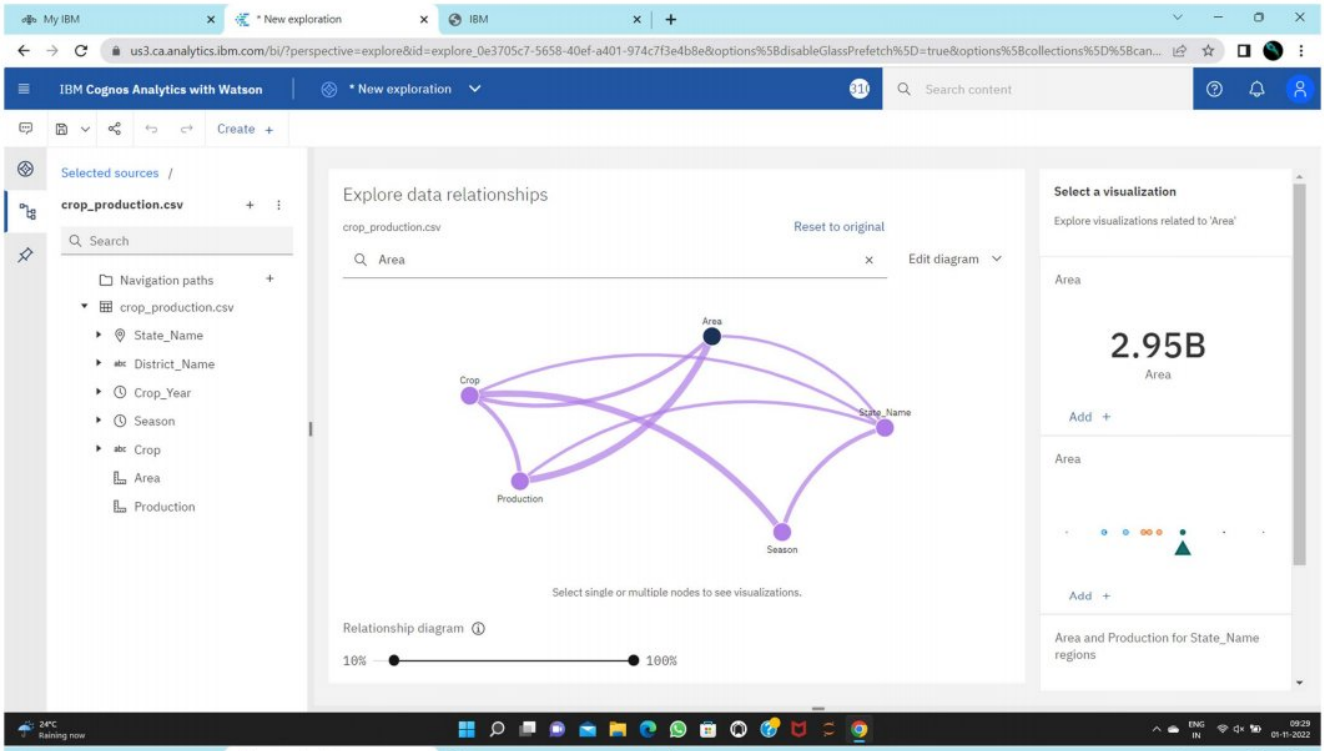
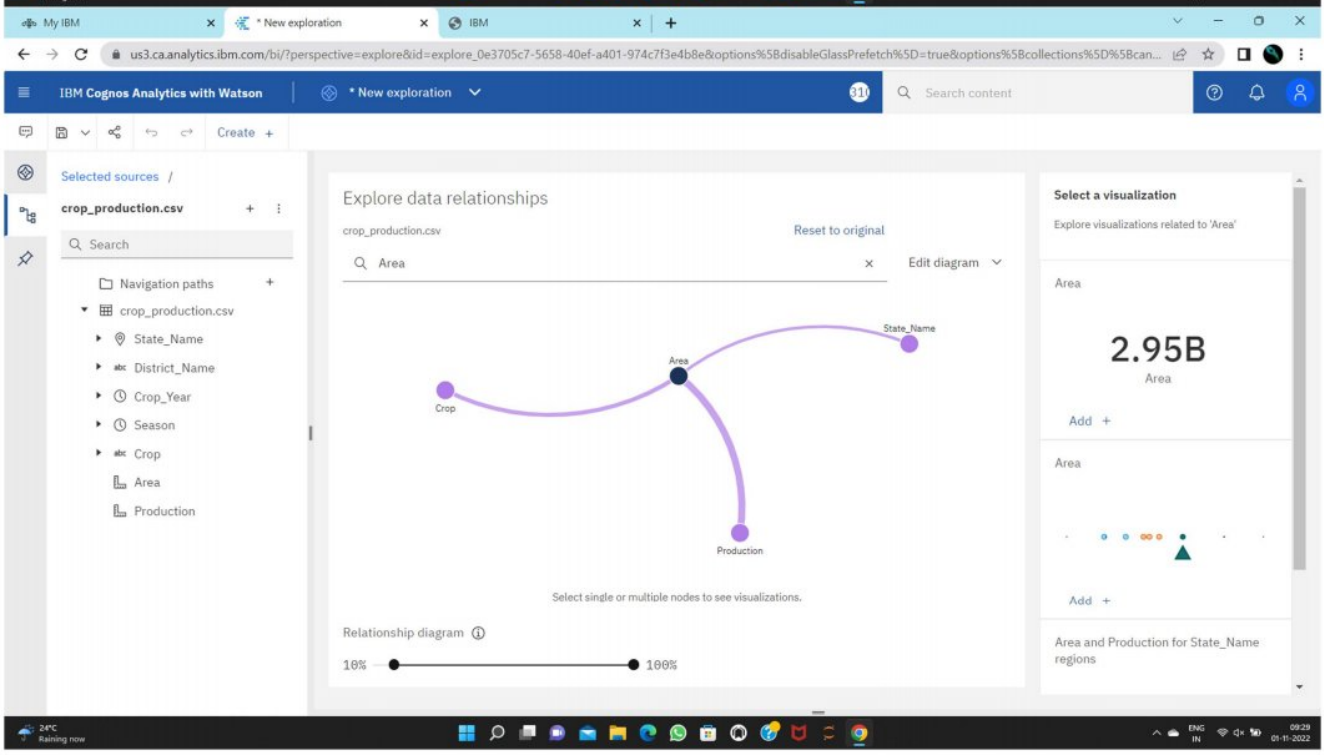
Nodes
All
Details
Production, Crop, State_Name, and Crop_Year predict Area with a strength of 57.4%.
Data relationships


My IBM
* New exploration
IBM
us3.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_0e3705c7-5658-40ef-a401-974c7f3e4b8e&options%5BdisableGlassPrefetch%5D=true&options%5Bcollections%5D%5Bcan...
IBM Cognos Analytics with Watson
* New exploration
Search content
Create
1/1
Map
Related
Compare
Analytics
Details
Fields
Properties
Cards
Area and Production for State_Name regions
Area (Sum)
Production (Sum)
Details
Over all values of State_Name, the sum of Area is nearly 3.0 billion.
Area ranges from nearly thirteen thousand, when State_Name is Chandigarh, to almost 434 million, when State_Name is Uttar Pradesh.
Data relationships
Afghanistan
Islamabad
Lahore
Pakistan
New Delhi
Nepal
Bhutan
Bangladesh
Karachi
India
Mumbai
Hyderabad
Bengaluru
Sri Lanka
Myanmar (Burma)
Laos
Hanoi
Vientiane
Thailand
Cambodia
Arabian Sea
Bay of Bengal
TIBET
SICHUAN
YUNNAN


My IBM
* New exploration
IBM
us3.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_0e3705c7-5658-40ef-a401-974c7f3e4b8e&options%5BdisableGlassPrefetch%5D=true&options%5Bcollections%5D%5Bcan...
IBM Cognos Analytics with Watson
* New exploration
Search content
Create +
Selected sources /
crop_production.csv
Search
Navigation paths
crop_production.csv
State_Name
District_Name
Crop_Year
Season
Crop
Area
Production
Explore data relationships
crop_production.csv
Reset to original
Area
Edit diagram
Area
Crop
State_Name
Production
Season
Select single or multiple nodes to see visualizations.
Relationship diagram
10%
100%
Select a visualization
Explore visualizations related to 'Area'
Area
2.95B
Area
Add +
Area
Add +
Area and Production for State_Name regions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crop_production.csv
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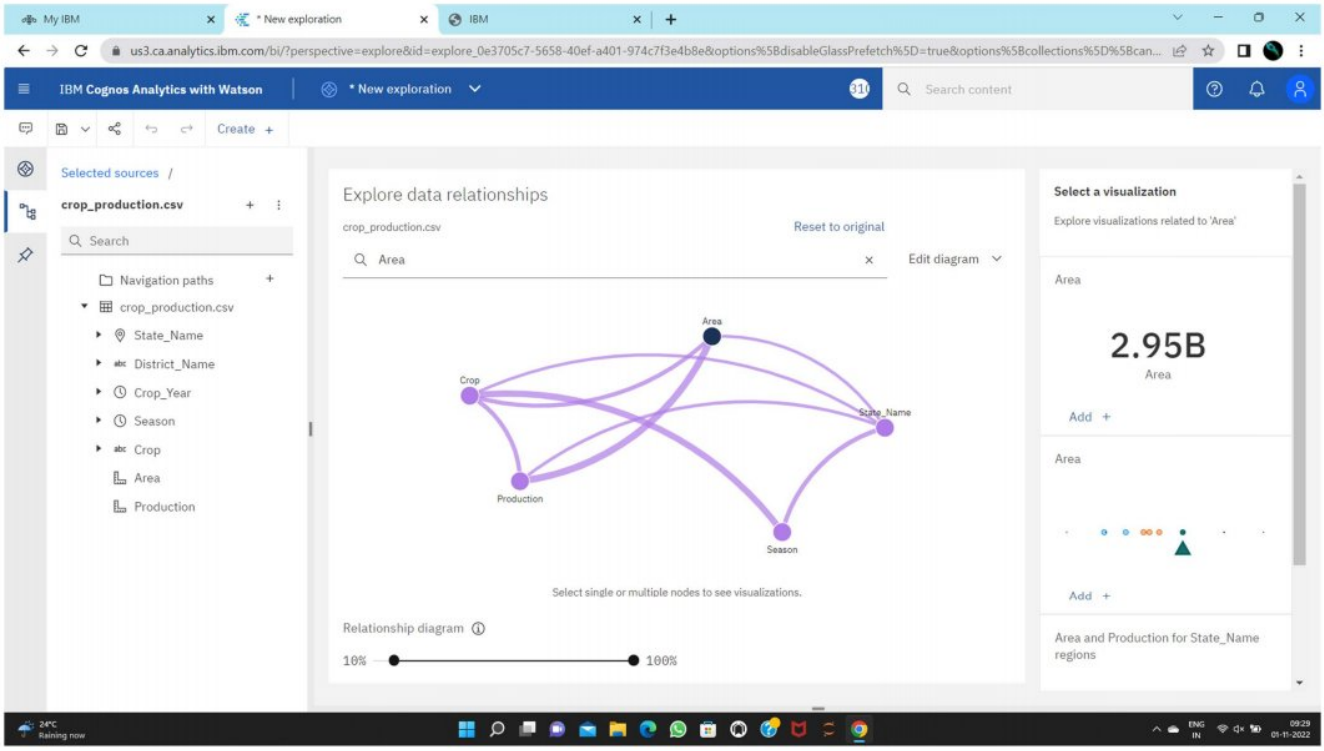
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Search content
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Selected sources /
crop_production.csv
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Crop
State_Name
Production
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Select a visualization
Explore visualizations related to 'Area'
Area
2.95B
Area
Add
Area
Add
Area and Production for State_Name regions
24°C
Raining now
ENG
IN
09:29
01-11-2022