Project Development Phase
Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID05425
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	10 Marks

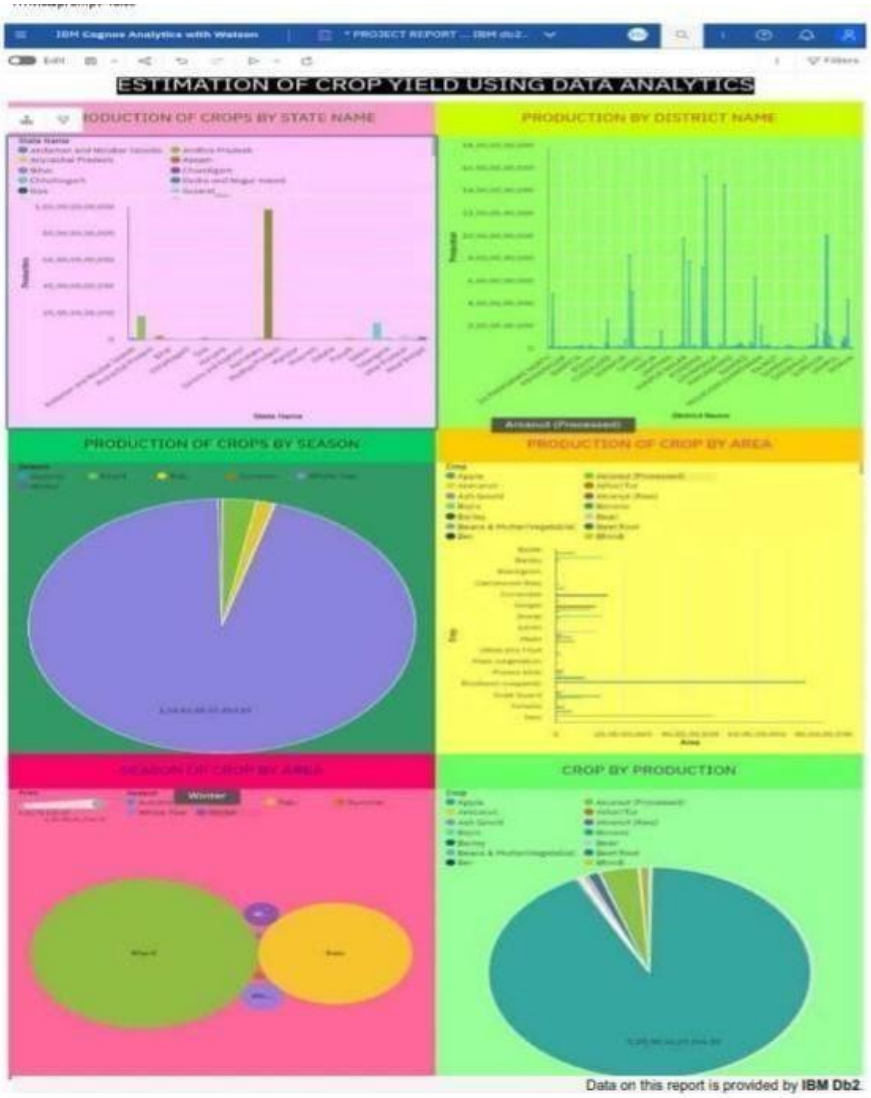
Model Performance Testing:

Project team shall fill the following information in model performance testing template.

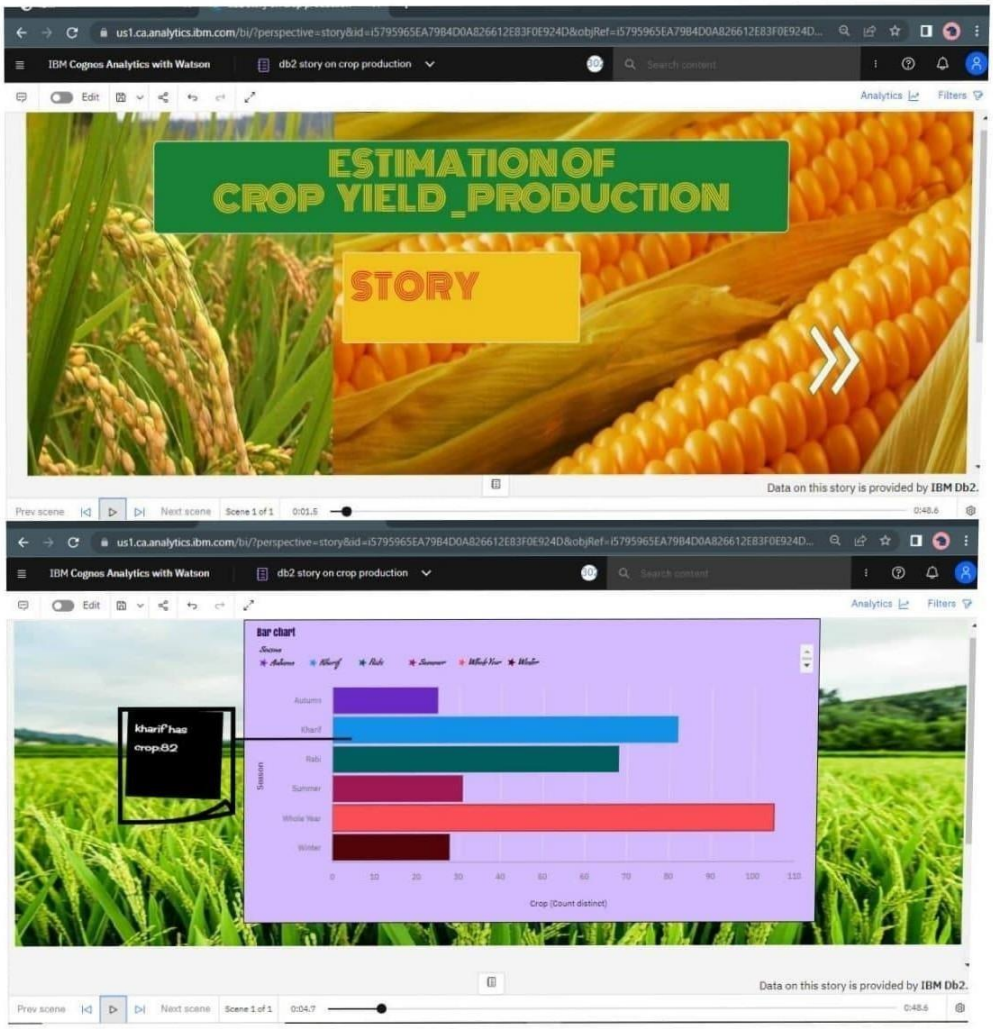
S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visulizations / Graphs – 4 / 16 "https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pat hRef=.public_folders%2FDATA%2BMODULE%2BDb2%2FDashboard%2B using%2BIBM%2BDb2&closeWindowOnLastView=true&ui_ap pbar=false&ui_navbar=false&shareMode=embedded&a ction=view&mode=dashboard&subView=model0000018462c 23cbc_00000000" width="320" height="200" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
2.	Data Responsiveness	CROP PRODUCTION DATASET 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)	To connect IBM Db2 database cloud with cognos analytics By using IBM Db2 to create Dashbord,Report,Story,Visualization andExploratory data analytics(EDA)
4.	Utilization of Data Filters	Utilization of data filters - 25

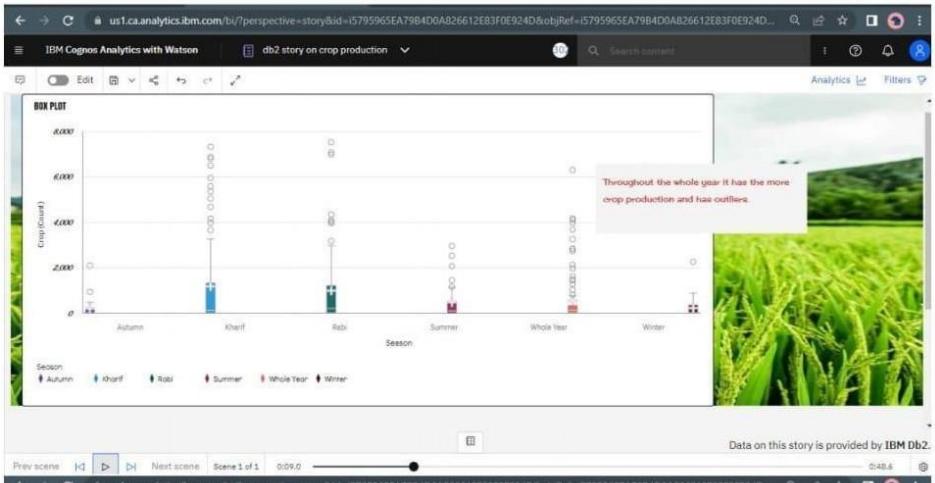
5.	Effective User Story	No of Scene Added – 12 <iframe src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&path Ref=.my_folders%2Fdb2%2Bstory%2Bon%2Bcrop%2Bproduction& closeWindowOnLastView=true&ui_appbar=false&ui_navbar=f alse&shareMode=embedded&action=view&sceneId =model0000018452cdd762_00000000&sceneTime=0" width="320" height="200" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
6.	Descriptive Reports	No of Visulizations / Graphs – 1 / 6 <iframe src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FREP ORT%2FPROJECT%2BREPORT%2BUSING%2BIBM%2Bdb2..&closeW indowOnLastView=true&ui_appbar=false&ui_navbar=fals e&shareMode=embedded&action=run&format=HTML&amp ;prompt=false" width="320" height="200" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>

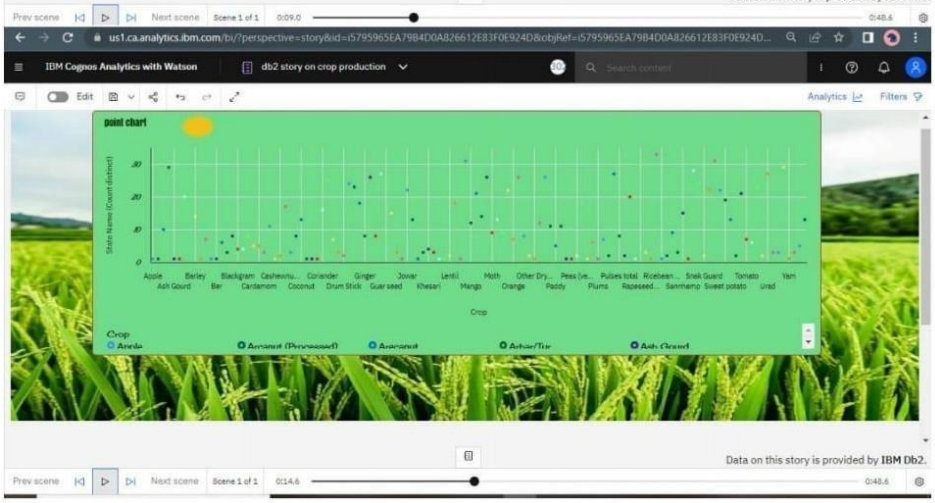
REPORT:

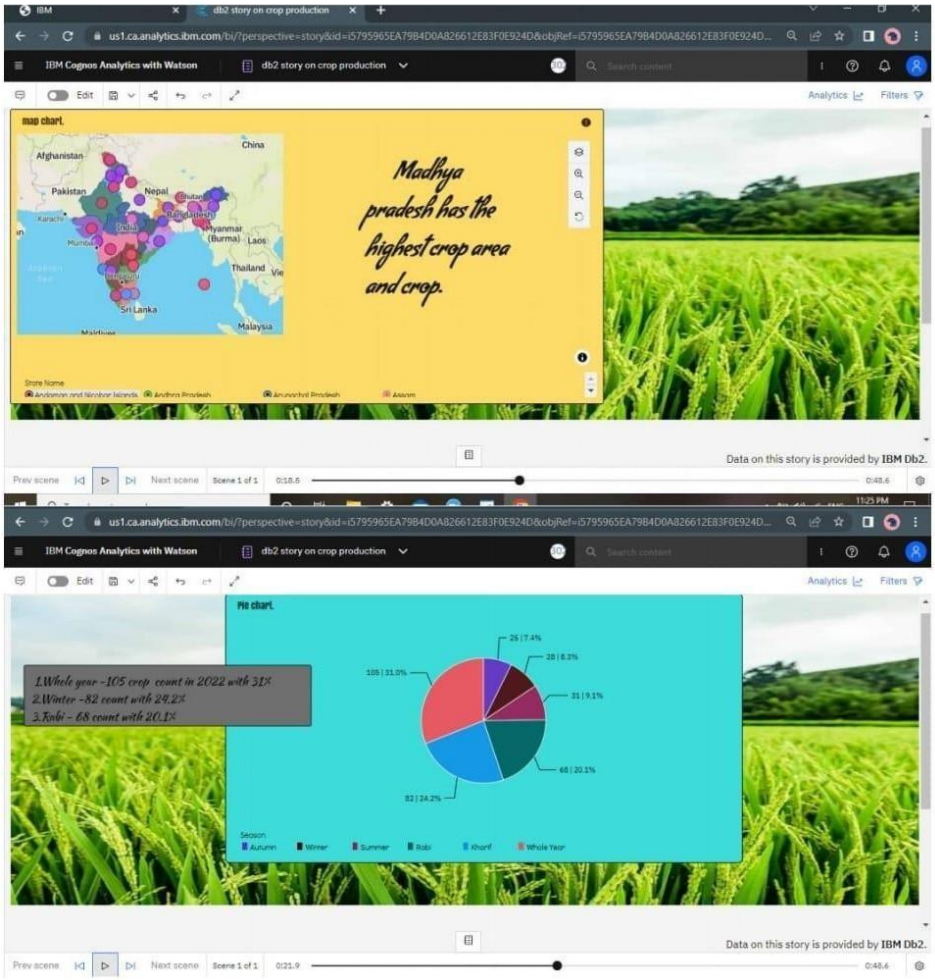

IBM Cognos Analytics with Watson
ESTIMATION OF CROP YIELD USING DATA ANALYTICS
PRODUCTION OF CROPS BY STATE NAME
PRODUCTION BY DISTRICT NAME
PRODUCTION OF CROPS BY SEASON
PRODUCTION OF CROP BY AREA
CROP BY PRODUCTION
Winter
Data on this report is provided by IBM Db2.

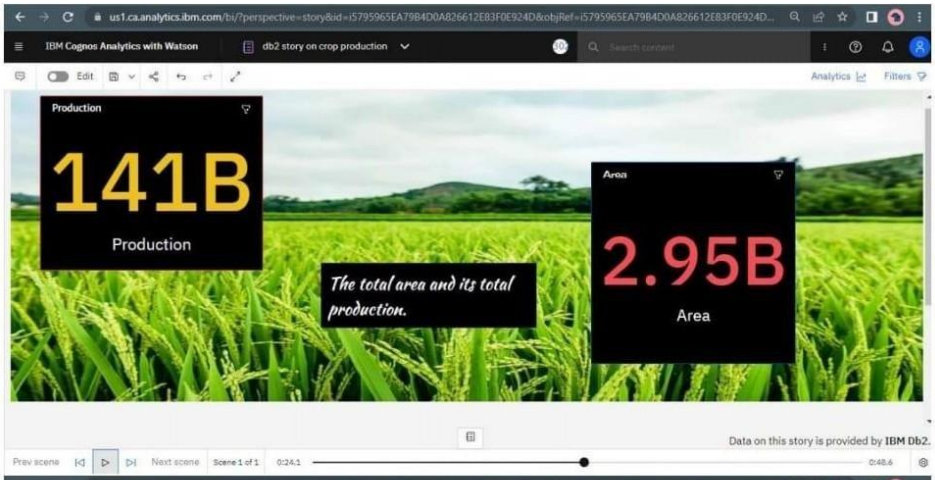
STORY:

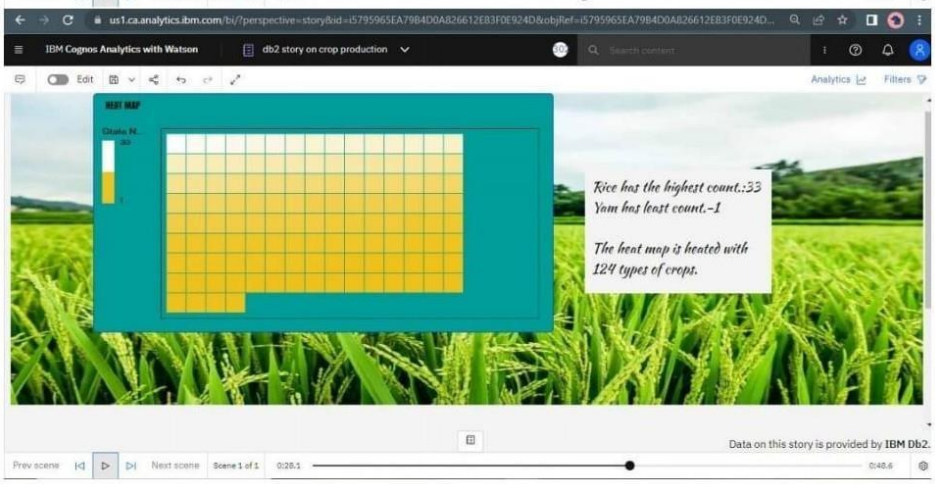

us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
ESTIMATION OF CROP YIELD_PRODUCTION
STORY
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:01.5
0:48.6
us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
Bar chart
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season
0
10
20
30
40
50
60
70
80
90
100
110
Crop (Count distinct)
kharif has crop:82
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:04.7
0:48.6

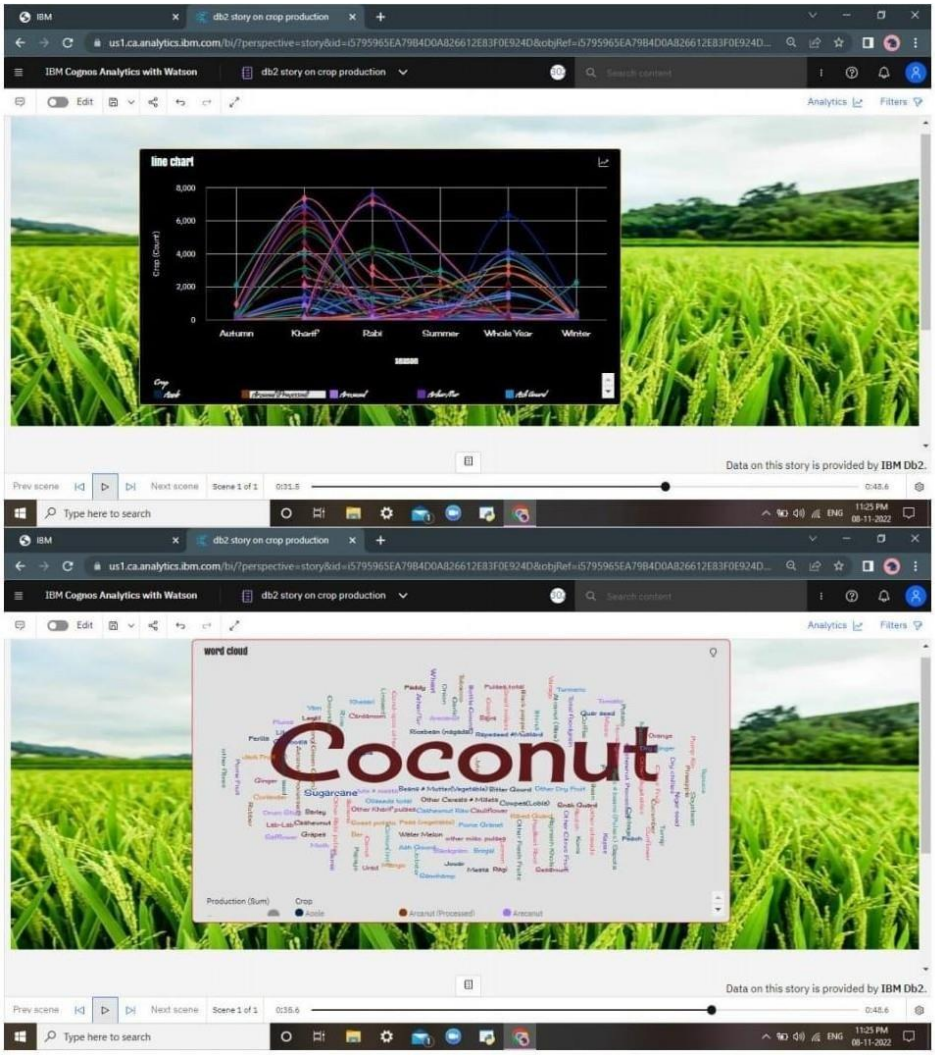

us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
BOX PLOT
Throughout the whole year it has the more crop production and has outliers.
Crop (Count)
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1


us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
point chart
State Name (Count distinct)
Crop
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1

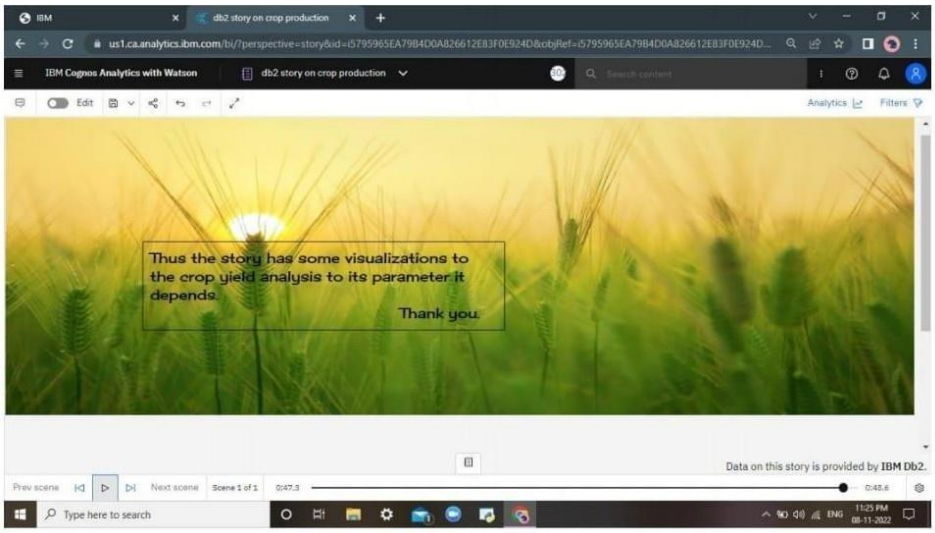

IBM
db2 story on crop production
us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
map chart.
China
Afghanistan
Pakistan
Nepal
Bhutan
Bangladesh
Myanmar (Burma)
Laos
Thailand
Sri Lanka
Malaysia
Madhya pradesh has the highest crop area and crop.
Store Name
Andaman and Nicobar Islands
Andhra Pradesh
Arunachal Pradesh
Assam
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:48.6
11:25 PM
us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
Pie chart.
1.Whole year -105 crop count in 2022 with 31%
2.Winter -82 count with 24.2%
3.Rabi - 68 count with 20.1%
26 | 7.4%
28 | 8.3%
31 | 9.1%
68 | 20.1%
82 | 24.2%
105 | 31.0%
Season
Autumn
Winter
Summer
Rabi
Kharif
Whole Year
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:21.9
0:48.6


us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
Production
141B
Production
The total area and its total production.
Area
2.95B
Area
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:24.1
0:48.6

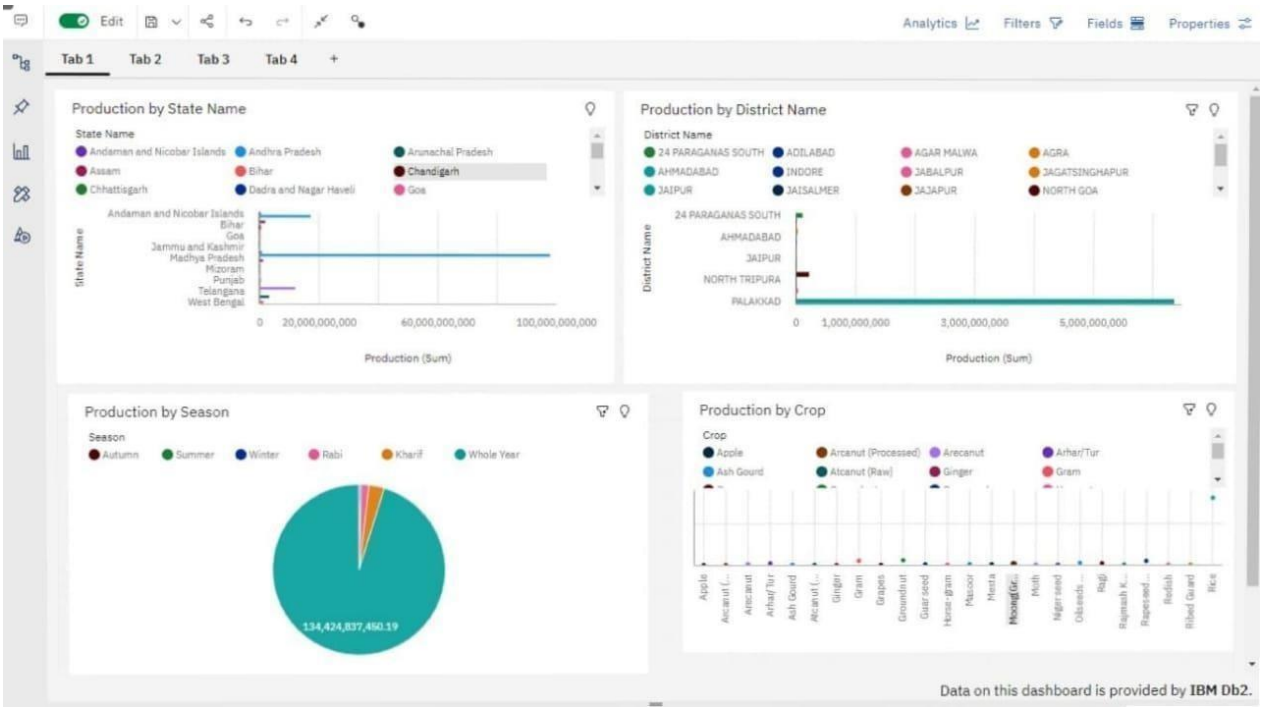

us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
HEAT MAP
Rice has the highest count.:33
Yam has least count.-1
The heat map is heated with 124 types of crops.
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:28.1
0:48.6

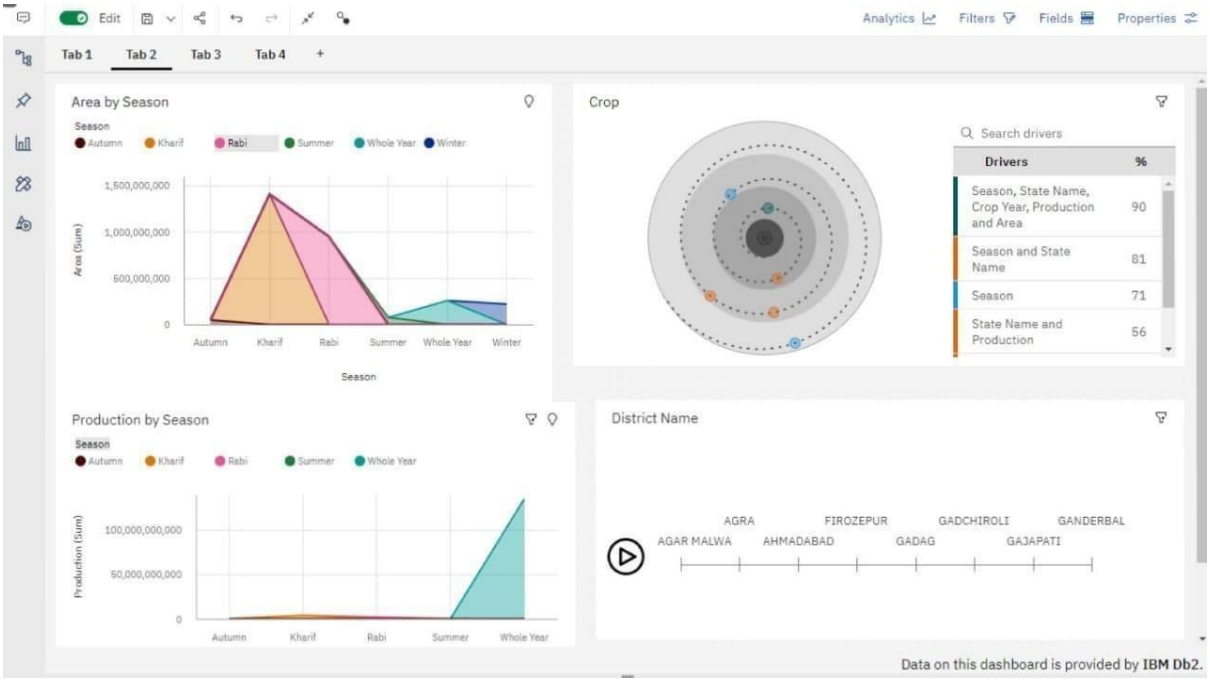

IBM
db2 story on crop production
us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
line chart
Crop (Count)
8,000
6,000
4,000
2,000
0
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:31.6
0:48.6
Type here to search
ENG
11:25 PM
08-11-2022

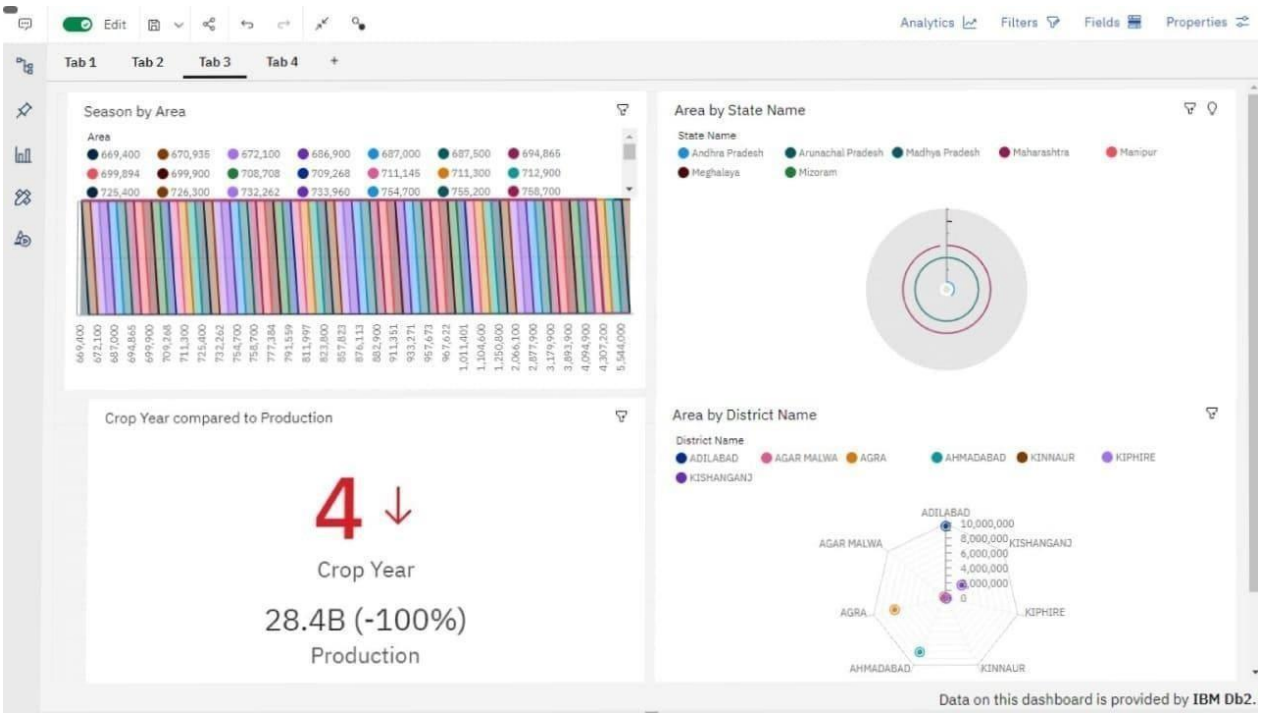
IBM
db2 story on crop production
us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
word cloud
Coconut
Sugarcane
Production (Sum)
Crop
Apple
Arecanut (Processed)
Arecanut
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:35.6
0:48.6
Type here to search
ENG
11:25 PM
08-11-2022

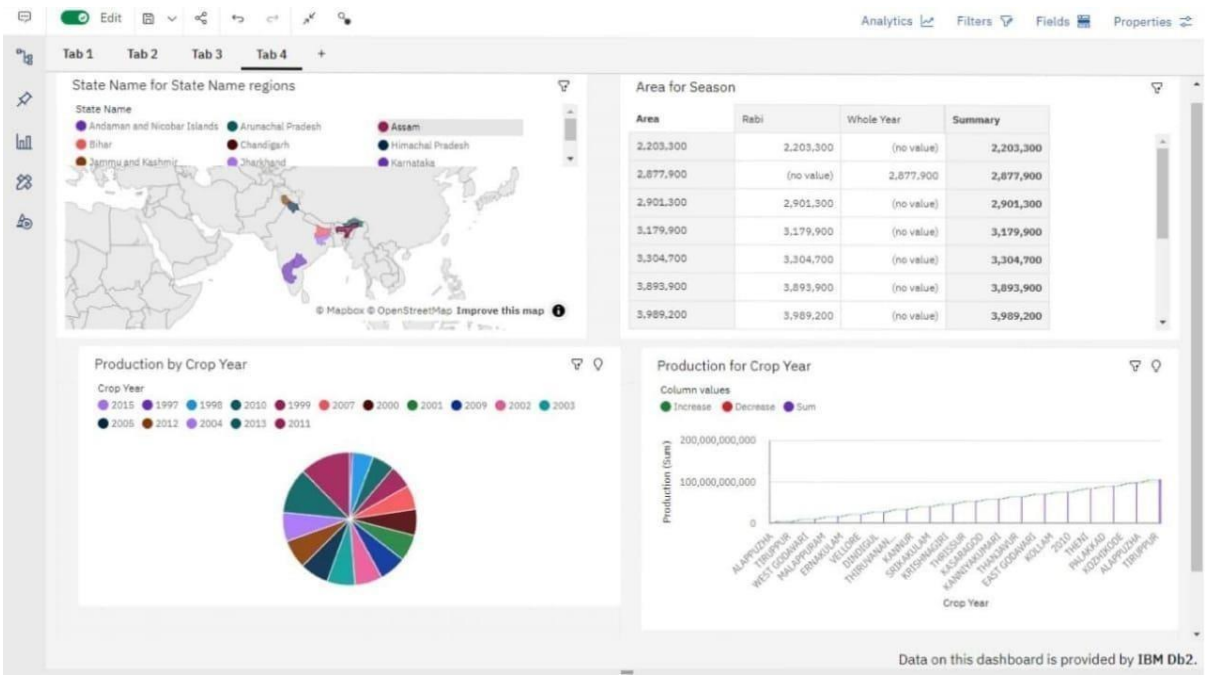

IBM
db2 story on crop production
us1.ca.analytics.ibm.com/bi/?perspective=story&id=i5795965EA79B4D0A826612E83F0E924D&objRef=i5795965EA79B4D0A826612E83F0E924D...
IBM Cognos Analytics with Watson
db2 story on crop production
Edit
Analytics
Filters
Thus the story has some visualizations to the crop yield analysis to its parameter it depends.
Thank you.
Data on this story is provided by IBM Db2.
Prev scene
Next scene
Scene 1 of 1
0:47.3
0:48.6
Type here to search
ENG
11:25 PM
08-11-2022

DASHBOARD:


Edit
Analytics
Filters
Fields
Properties
Tab 1
Tab 2
Tab 3
Tab 4
Production by State Name
State Name
Andaman and Nicobar Islands
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Dadra and Nagar Haveli
Goa
Production (Sum)
Production by District Name
District Name
24 PARAGANAS SOUTH
ADILABAD
AGAR MALWA
AGRA
AHMADABAD
INDORE
JABALPUR
JAGATSINGHAPUR
JAIPUR
JAISALMER
JAJAPUR
NORTH GOA
PALAKKAD
Production by Season
Season
Autumn
Summer
Winter
Rabi
Kharif
Whole Year
134,424,837,460.19
Production by Crop
Crop
Apple
Arcanut (Processed)
Arecanut
Arhar/Tur
Ash Gourd
Atcanut (Raw)
Ginger
Gram
Data on this dashboard is provided by IBM Db2.


Edit
Analytics
Filters
Fields
Properties
Tab 1
Tab 2
Tab 3
Tab 4
Area by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Area (Sum)
Crop
Search drivers
Drivers
%
Season, State Name, Crop Year, Production and Area
90
Season and State Name
81
Season
71
State Name and Production
56
Production by Season
Production (Sum)
District Name
AGRA
FIROZEPUR
GADCHIROLI
GANDERBAL
AGAR MALWA
AHMADABAD
GADAG
GAJAPATI
Data on this dashboard is provided by IBM Db2.


Edit
Analytics
Filters
Fields
Properties
Tab 1
Tab 2
Tab 3
Tab 4
Season by Area
Area
669,400
670,935
672,100
686,900
687,000
687,500
694,865
699,894
699,900
708,708
709,268
711,145
711,300
712,900
725,400
726,300
732,262
733,960
754,700
755,200
758,700
Area by State Name
State Name
Andhra Pradesh
Arunachal Pradesh
Madhya Pradesh
Maharashtra
Manipur
Meghalaya
Mizoram
Crop Year compared to Production
4
Crop Year
28.4B (-100%)
Production
Area by District Name
District Name
ADILABAD
AGAR MALWA
AGRA
AHMADABAD
KINNAUR
KIPHIRE
KISHANGANJ
10,000,000
8,000,000
6,000,000
4,000,000
2,000,000
0
Data on this dashboard is provided by IBM Db2.


Edit
Analytics
Filters
Fields
Properties
Tab 1
Tab 2
Tab 3
Tab 4
State Name for State Name regions
State Name
Andaman and Nicobar Islands
Arunachal Pradesh
Assam
Bihar
Chandigarh
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
© Mapbox © OpenStreetMap Improve this map
Area for Season
Area
Rabi
Whole Year
Summary
2,203,300
2,203,300
(no value)
2,203,300
2,877,900
(no value)
2,877,900
2,877,900
2,901,300
2,901,300
(no value)
2,901,300
3,179,900
3,179,900
(no value)
3,179,900
3,304,700
3,304,700
(no value)
3,304,700
3,893,900
3,893,900
(no value)
3,893,900
3,989,200
3,989,200
(no value)
3,989,200
Production by Crop Year
Crop Year
2015
1997
1998
2010
1999
2007
2000
2001
2009
2002
2003
2005
2012
2004
2013
2011
Production for Crop Year
Column values
Increase
Decrease
Sum
200,000,000,000
100,000,000,000
0
Production (Sum)
ALAPPUZHA
TIRUPUR
WEST GODAVARI
MALAPPURAM
ERNAKULAM
VELLORE
DINDIGUL
THIRUVANAN...
KANNUR
SRIKAKULAM
KRISHNAGIRI
THRISSUR
KASARAGOD
KANNIYAKUMARI
THANJAVUR
EAST GODAVARI
KOLLAM
2010
THENI
PALAKKAD
KOZHIKODE
ALAPPUZHA
TIRUPPUR
Crop Year
Data on this dashboard is provided by IBM Db2.