

SR UNIVERSITY

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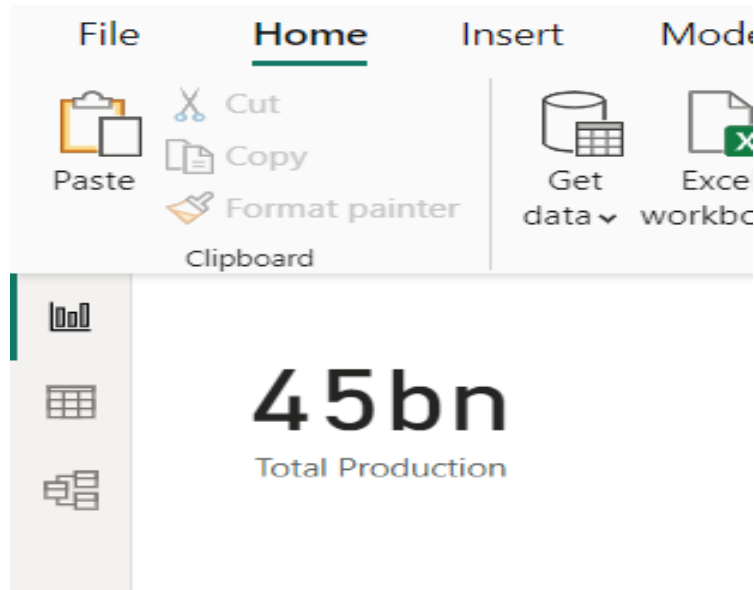
R. POOJA REDDY

**Week-03: DAX Functions on The Data
Production Analysis of Indian States**

Explanation:

- In Power BI we have to select for the Table view then we have to select for the New Measure
- In that we have to write the formula that requires. Later we have to click enter.
- After that go and select Report View in that Visualizations choose card chart and in that add the information that will show the results data.
- In MSP it is same up to choosing formula then after that goes to total chart.
- Now select format to visual and then general here select Effects in that change to fx .
- As selecting format Style is field effect and then Select field as MSP.
- Now we can observe the changes as required to the slicer settings.

Total Production of The data :



1 Total Production = SUM(Crop_Data[Production[Tons]])					
Name	District_Name	Crop_Year	Season	Crop	
Pradesh	PILIBHIT	2009	Kharif	Moong(Green Gram)	

The formula we used for Total Production:

Total Production =
SUM(Crop_Data[Production[Tons]])

Average Production of The data :

611.81K

Average Production

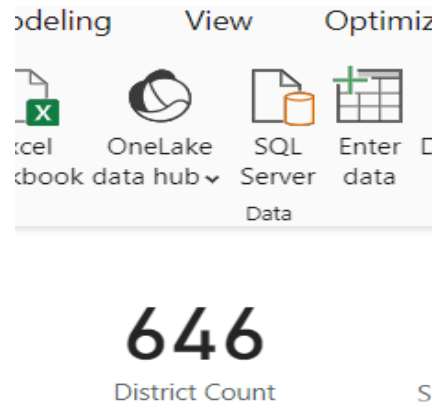
```
1 Average Production = average(Crop_Data[Production[Tons]])
```

me	District_Name	Crop_Year	Season	Crop	Area[Heacters]	Prod
lesh	PILIBHIT	2009	Kharif	Moong(Green Gram)	1	
lesh	AMBEDKAR NAGAR	2012	Kharif	Small millets	1	
lesh	MUZAFFARNAGAR	2012	Kharif	Sannhamp	1	

The formula we used for Average Production:

Average Production = `average(Crop_Data[Production[Tons]])`

District Count of The data :



Structure

Formatting

Properties

✓

1 District Count = `DISTINCTCOUNT(Crop_Data[District_Name])`

lame	District_Name	Crop_Year	Season	Crop	Area[Hea
adesh	PILIBHIT	2009	Kharif	Moong(Green Gram)	
adesh	AMBEDKAR NAGAR	2012	Kharif	Small millets	
adesh	MUZAFFARNAGAR	2012	Kharif	Sannhamp	
adesh	VARANASI	2018	Kharif	Groundnut	

The formula we used for District Count:

District Count =
`DISTINCTCOUNT(Crop_Data[District_Name])`

State Count of The data :

33

State Count

Structure

Formatting

✓

1 State Count = `DISTINCTCOUNT(Crop_Data[State_Name])`

Name	District_Name	Crop_Year	Season	Crop
Uttar Pradesh	PILIBHIT	2009	Kharif	Moong
Uttar Pradesh	AMBEDKAR NAGAR	2012	Kharif	Small millets
Uttar Pradesh	MUZAFFARNAGAR	2012	Kharif	Sannhamp

The formula we used for State Count:

State Count =
`DISTINCTCOUNT(Crop_Data[State_Name])`

Season Count of The data :



6

Season Count

Structure

Formatting

✓

1 Season Count = DISTINCTCOUNT(Crop_Data[Season])

name	District_Name	Crop_Year	Season	Crop
idesh	PILIBHIT	2009	Kharif	Moong(Gree
idesh	AMBEDKAR NAGAR	2012	Kharif	Small millets
idesh	MUZAFFARNAGAR	2012	Kharif	Sannhamp
idesh	VARANASI	2018	Kharif	Groundnut

The formula we used for Season Count:

Season Count = DISTINCTCOUNT(Crop_Data[Season])

Crops Count of The data :

122

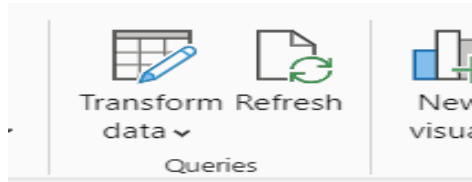
Crops Count

Structure		Formatting		
1 Crops Count = DISTINCTCOUNT(Crop_Data[Crop])				
ne	District_Name	Crop_Year	Season	Crop
esh	PILIBHIT	2009	Kharif	Moong(Gr
esh	AMBEDKAR NAGAR	2012	Kharif	Small mille
esh	MUZAFFARNAGAR	2012	Kharif	Sannhamp
esh	VARANASI	2018	Kharif	Groundnu

The formula we used for Crops Count:

Crops Count = DISTINCTCOUNT(Crop_Data[Crop])

Years Count of The data :



19
Years Count

Structure

Formatting

✓

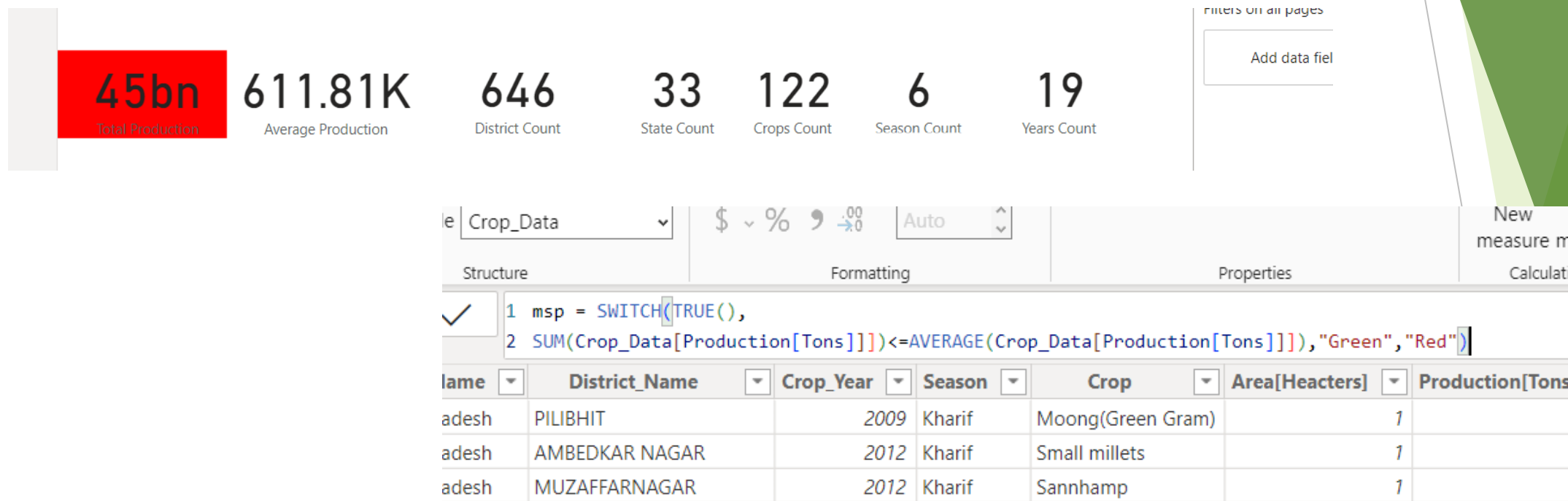
1 Years Count = `DISTINCTCOUNT(Crop_Data[Crop_Year])`

Name	District_Name	Crop_Year	Season	Crop
Madhya Pradesh	PILIBHIT	2009	Kharif	Moong(Green Gram)
Madhya Pradesh	AMBEDKAR NAGAR	2012	Kharif	Small millets

The formula we used for Years Count:

Years Count =
`DISTINCTCOUNT(Crop_Data[Crop_Year])`

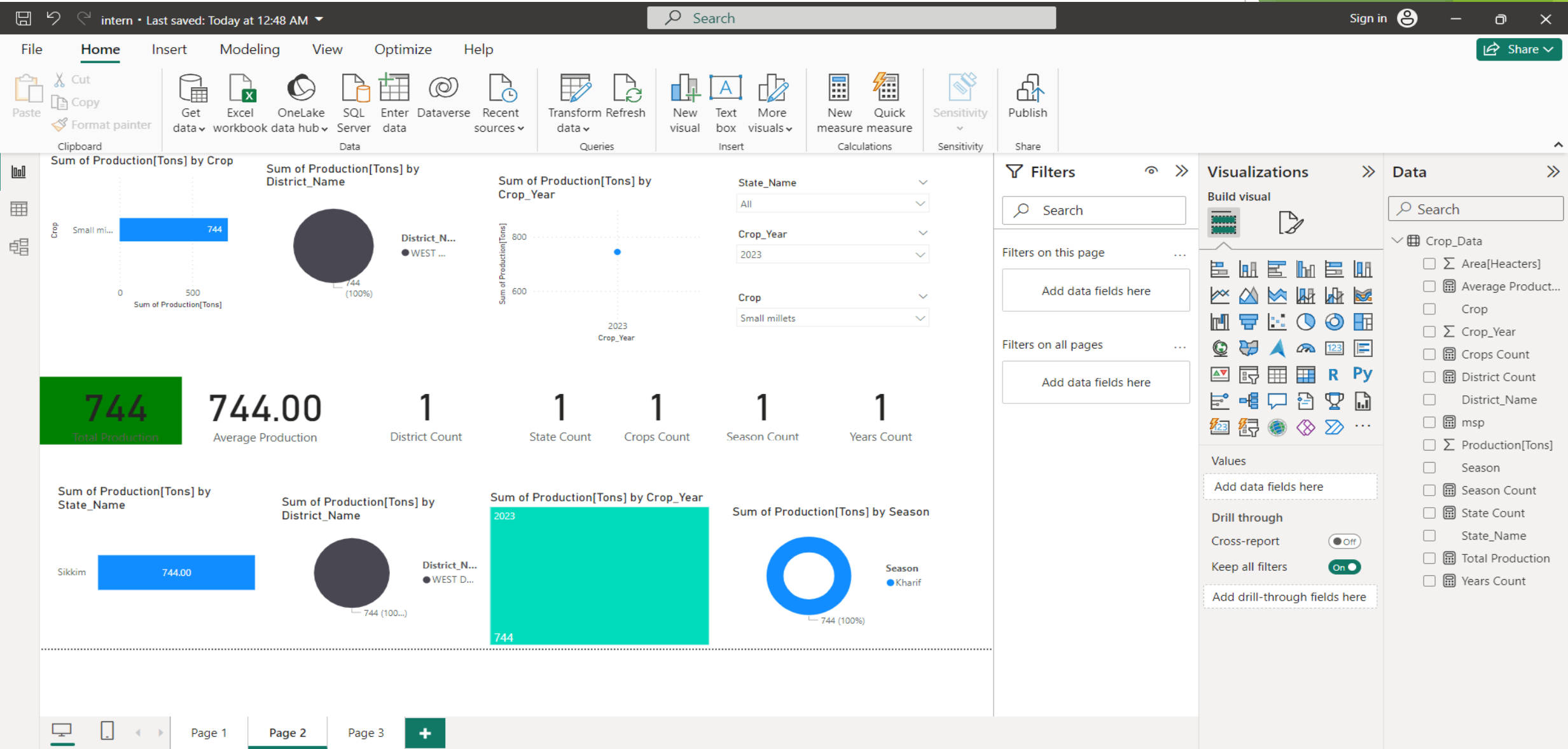
Minimum Supporting Price of The data :



The formula we used for MSP:

```
msp = SWITCH(TRUE(),  
SUM(Crop_Data[Production[Tons]])<=AVERAGE(Crop_Data[Production[Tons]]), "Green", "Red")
```

Summary :



FileHomeInsertModelingViewOptimizeHelp

PasteCutCopyFormat painterClipboard

Get dataExcel workbook data hubOneLake Server dataEnter dataDatawarehouseRecent sourcesData

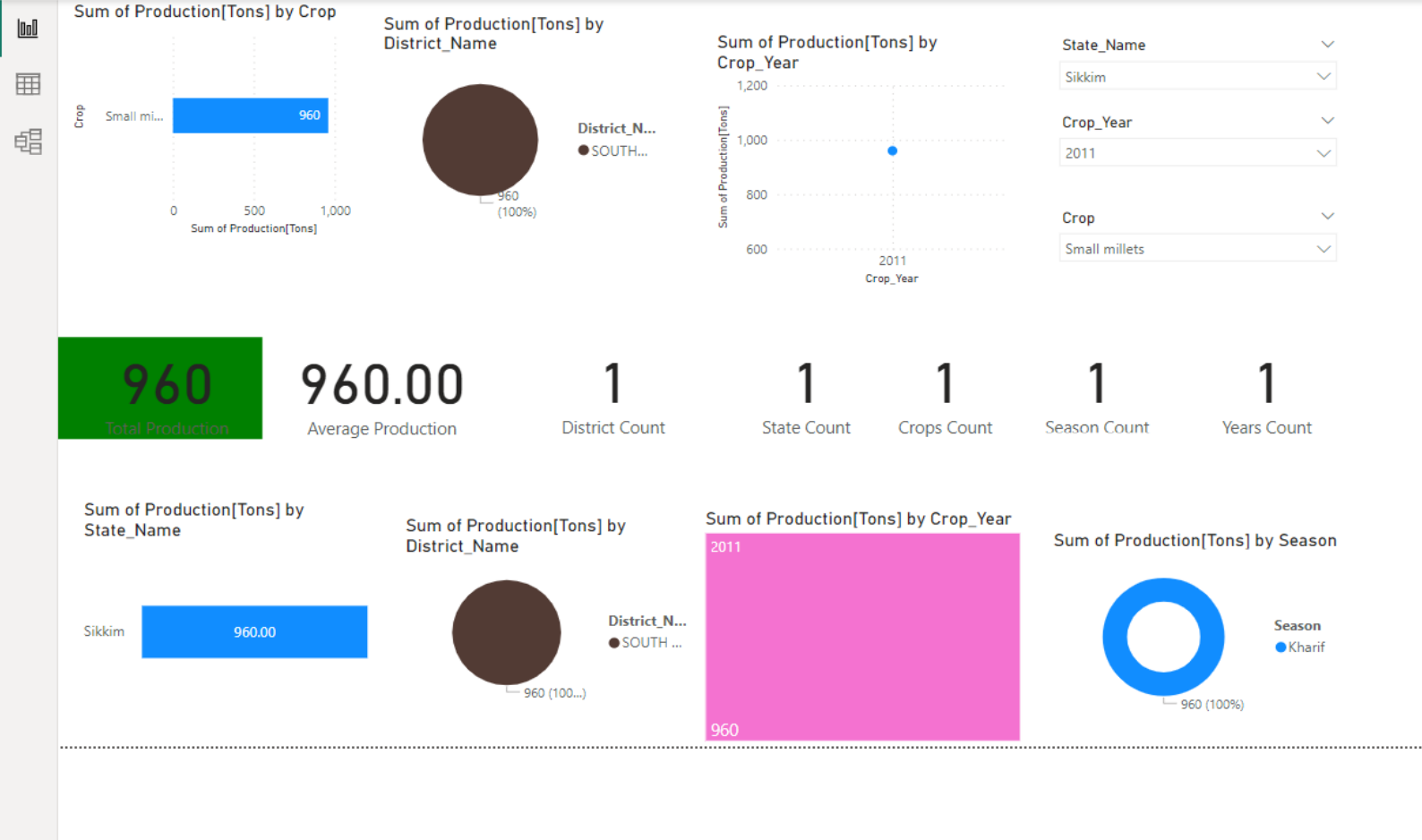
Transform dataRefresh dataQueries

New visualText boxMore visualsInsert

New measureQuick measureCalculations

SensitivitySensitivity

PublishShare



Filters

Search

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Visualizations

Build visual

Values

Add data fields here

Drill through

Cross-report: Off

Keep all filters: On

Add drill-through fields here

Data

Search

Crop_Data

☐ Σ Area[Heacters]

☐ Average Product...

☐ Crop

☐ Σ Crop_Year

☐ Crops Count

☐ District Count

☐ District_Name

☐ msp

☐ Σ Production[Tons]

☐ Season

☐ Season Count

☐ State Count

☐ State_Name

☐ Total Production

☐ Years Count

FileHomeInsertModelingViewOptimizeHelp

PasteCutCopyFormat painter

Get dataExcelOneLakeSQL ServerEnter dataDatawarehouseRecent sources

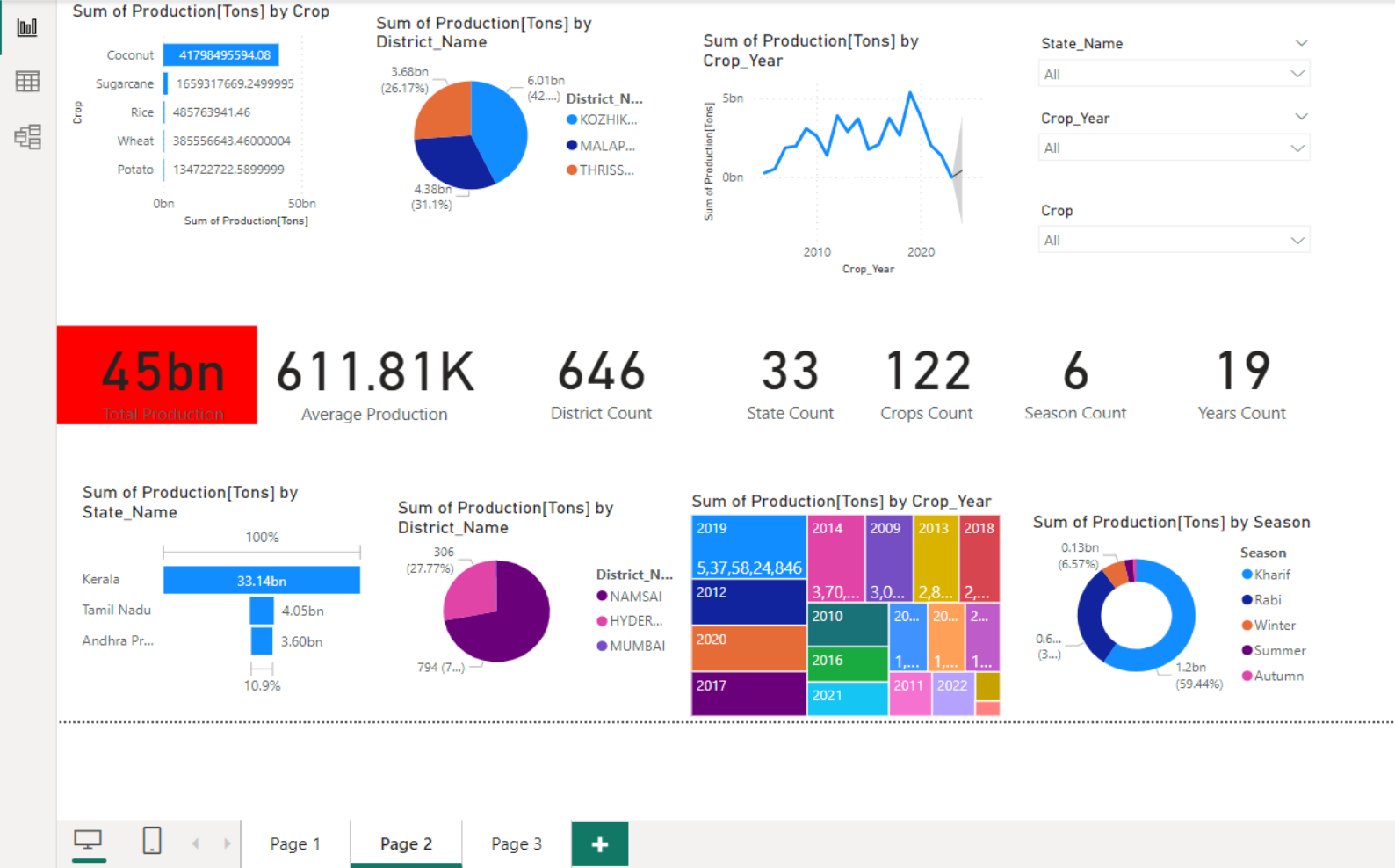
Transform dataRefresh data

New visualText boxMore visuals

New measureQuick measure

Sensitivity

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Filters on all pages

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Visualizations

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Visual icons

Data

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☐ Σ Area[Heacters]

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☐ District_Name

☐ msp

☐ Σ Production[Tons]

☐ Season

☐ Season Count

☐ State Count

☐ State_Name

☐ Total Production

☐ Years Count

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

FileHomeInsertModelingViewOptimizeHelp

Paste

CutCopy

Format painter

Get data

Excel workbook data hub

OneLake Server

SQL Server

Enter data

Dataverse data

Recent sources

Transform data

Refresh data

New visual

Text box

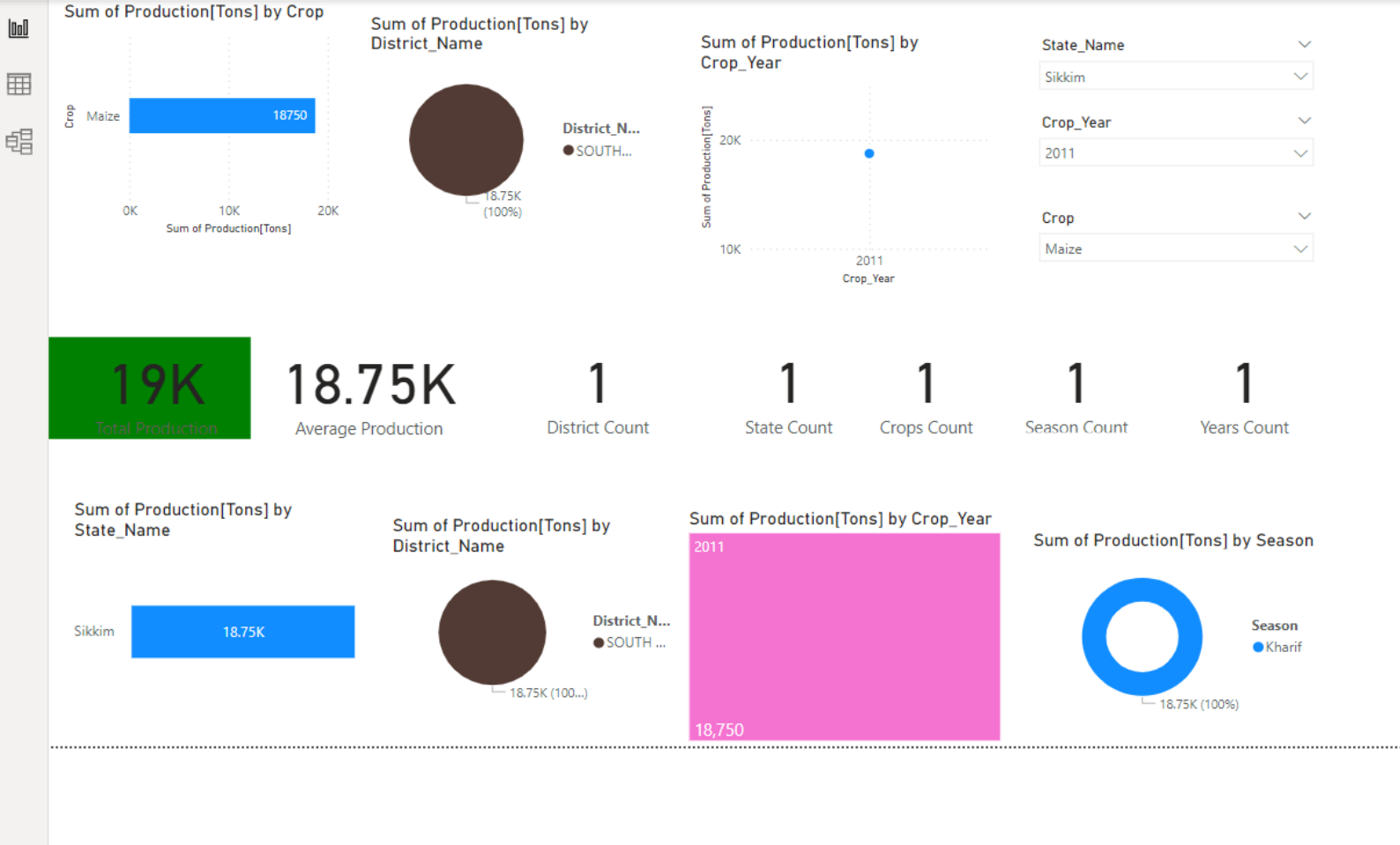
More visuals

New measure

Quick measure

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☐ District_Name

☐ msp

☐ Σ Production[Tons]

☐ Season

☐ Season Count

☐ State Count

☐ State_Name

☐ Total Production

☐ Years Count

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here