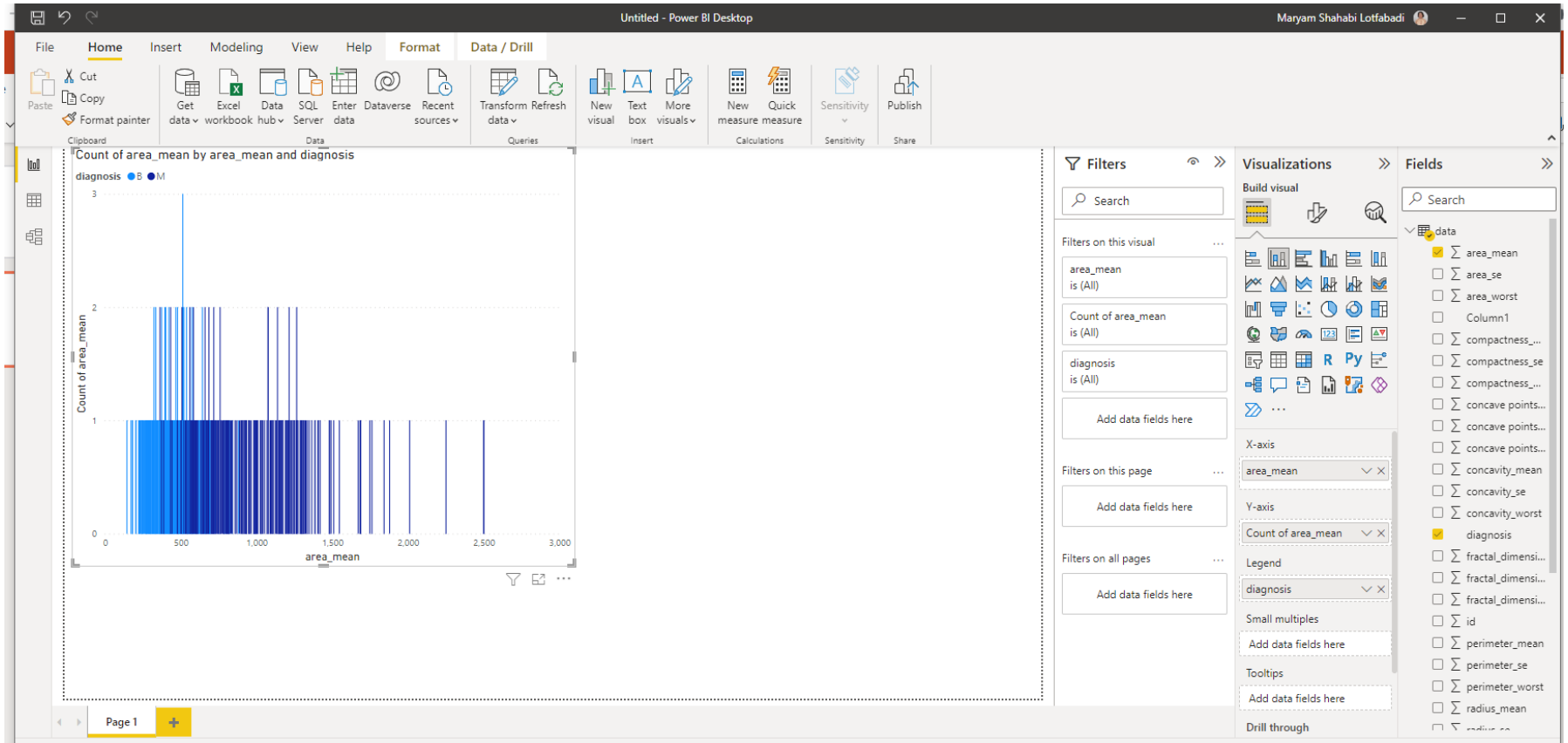
Machine learning in Power BI

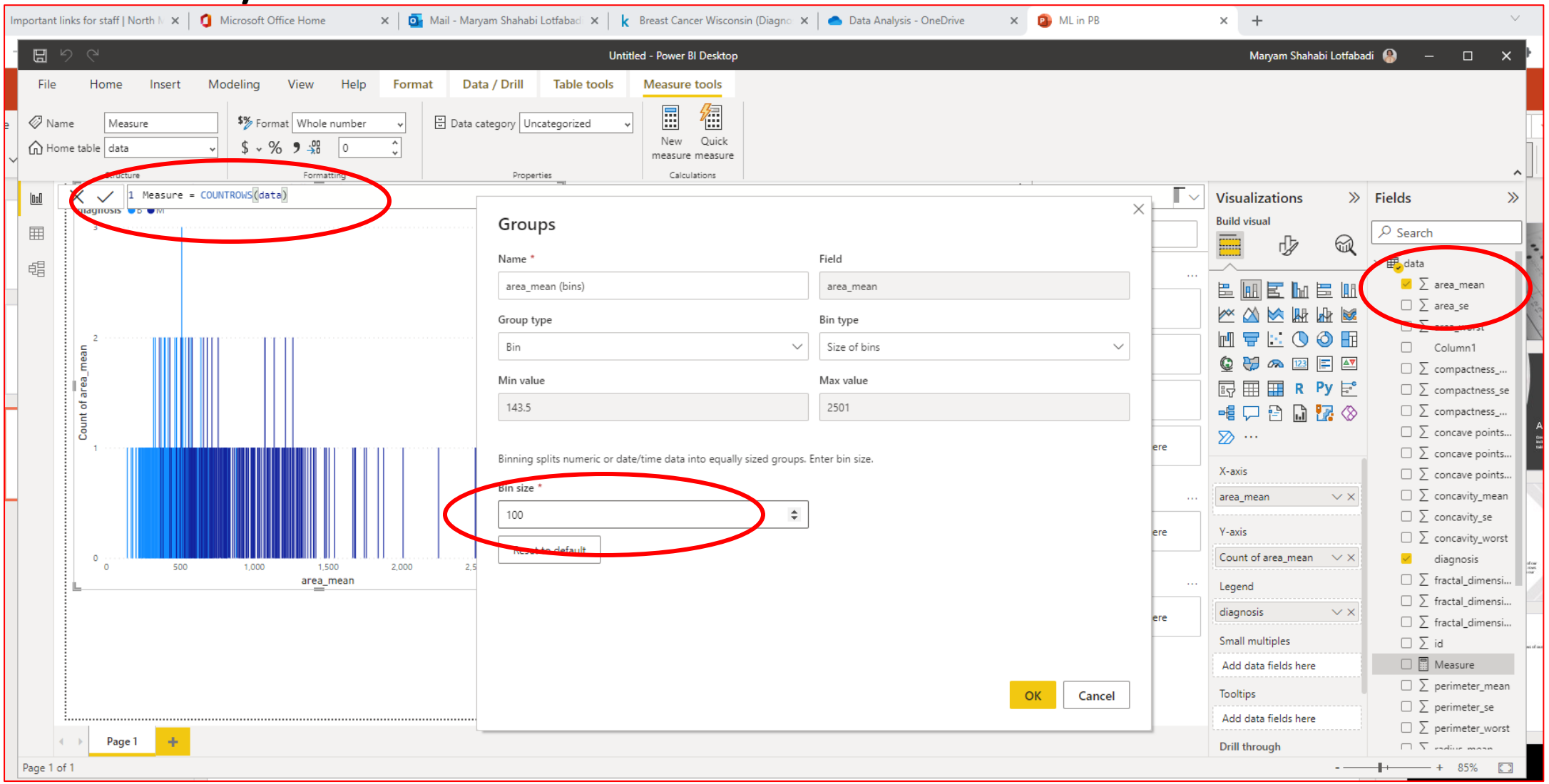
https://www.youtube.com/watch?v=ZFReB25ZJWs&t=1058s

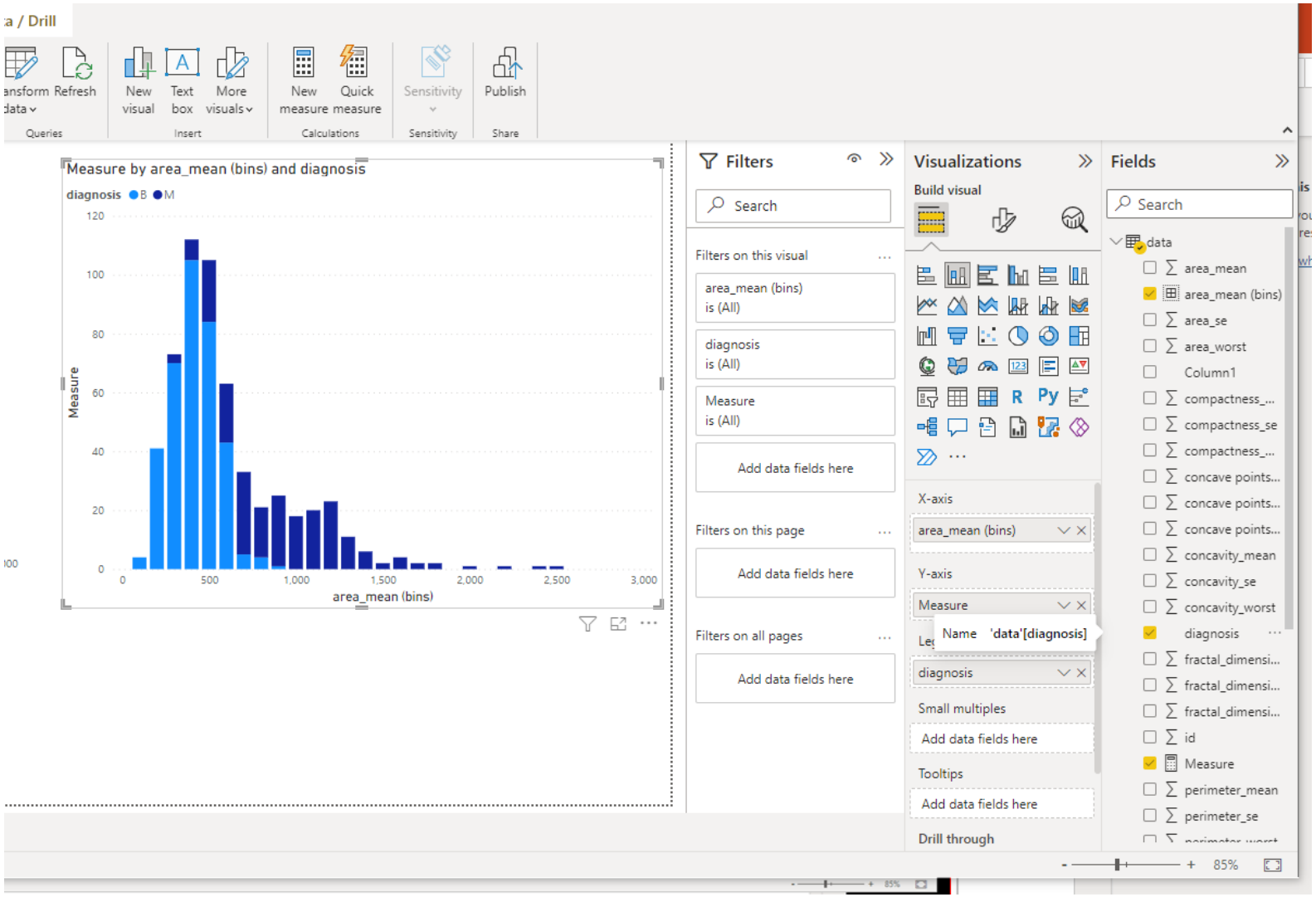
Activity: Breast Cancer Wisconsin (Diagnostic) Data Set

- Create column chart that shows the distribution of area mean and uses diagnosis on different colors.



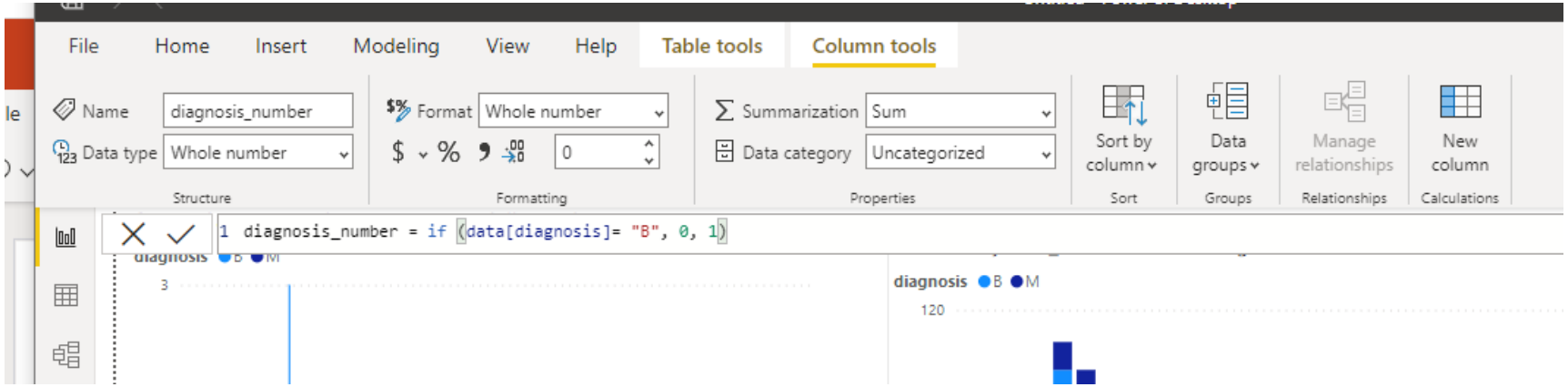
Activity:


Important links for staff | North
Microsoft Office Home
Mail - Maryam Shahabi Lotfabad
Breast Cancer Wisconsin (Diagno
Data Analysis - OneDrive
ML in PB
Untitled - Power BI Desktop
Maryam Shahabi Lotfabadi
File
Home
Insert
Modeling
View
Help
Format
Data / Drill
Table tools
Measure tools
Name
Measure
Home table
data
Format
Whole number
Data category
Uncategorized
New measure
Quick measure
1 Measure = COUNTROWS(data)
Count of area_mean
area_mean
Groups
Name *
area_mean (bins)
Field
area_mean
Group type
Bin
Bin type
Size of bins
Min value
143.5
Max value
2501
Binning splits numeric or date/time data into equally sized groups. Enter bin size.
Bin size *
100
Reset to default
OK
Cancel
Visualizations
Build visual
X-axis
area_mean
Y-axis
Count of area_mean
Legend
diagnosis
Small multiples
Add data fields here
Tooltips
Add data fields here
Drill through
Fields
Search
data
area_mean
area_se
Column1
compactness_...
compactness_se
compactness_...
concave points...
concave points...
concave points...
concavity_mean
concavity_se
concavity_worst
diagnosis
fractal_dimensi...
fractal_dimensi...
fractal_dimensi...
id
Measure
perimeter_mean
perimeter_se
perimeter_worst
Page 1
Page 1 of 1
85%

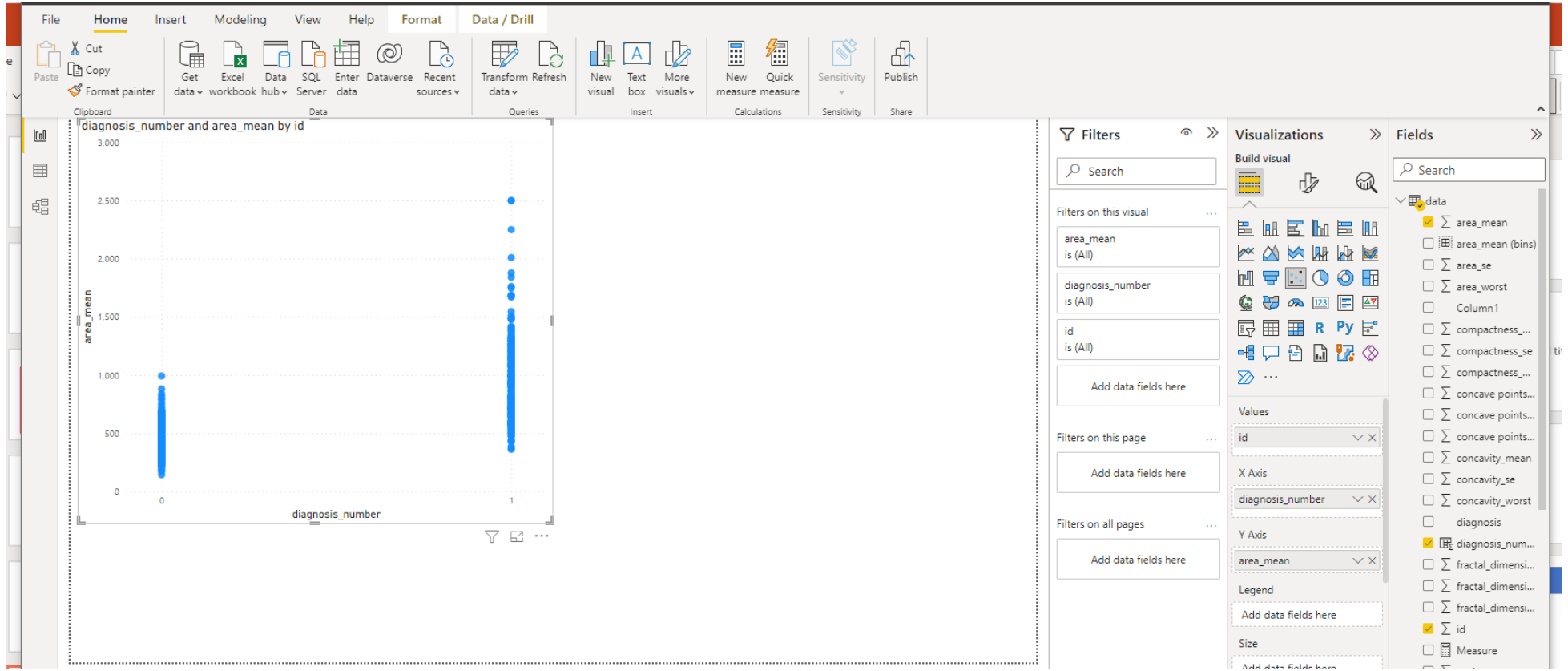

a / Drill
ansform data
Refresh
Queries
New visual
Text box
More visuals
Insert
New measure
Quick measure
Calculations
Sensitivity
Sensitivity
Publish
Share
Measure by area_mean (bins) and diagnosis
diagnosis B M
Measure
area_mean (bins)
0
500
1,000
1,500
2,000
2,500
3,000
0
20
40
60
80
100
120
Filters
Search
Filters on this visual
area_mean (bins) is (All)
diagnosis is (All)
Measure is (All)
Add data fields here
Filters on this page
Add data fields here
Filters on all pages
Add data fields here
Visualizations
Build visual
X-axis
area_mean (bins)
Y-axis
Measure
Name 'data'[diagnosis]
diagnosis
Small multiples
Add data fields here
Tooltips
Add data fields here
Drill through
Fields
Search
data
area_mean
area_mean (bins)
area_se
area_worst
Column1
compactness_...
compactness_se
compactness_...
concave points...
concave points...
concave points...
concavity_mean
concavity_se
concavity_worst
diagnosis
fractal_dimensi...
fractal_dimensi...
fractal_dimensi...
id
Measure
perimeter_mean
perimeter_se
85%

Activity:

- Plotting the rows individually not just grouped.
- Modeling / new column



- Create scatter chart. Like below then from format your visual/ x Axis/ set the range min to –0.1 and max to 1.1



Activity

- Add another column : Jitter = RAND() and create another scatter plot.