

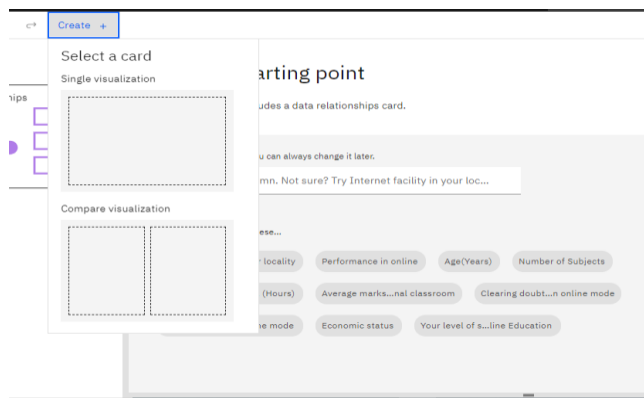
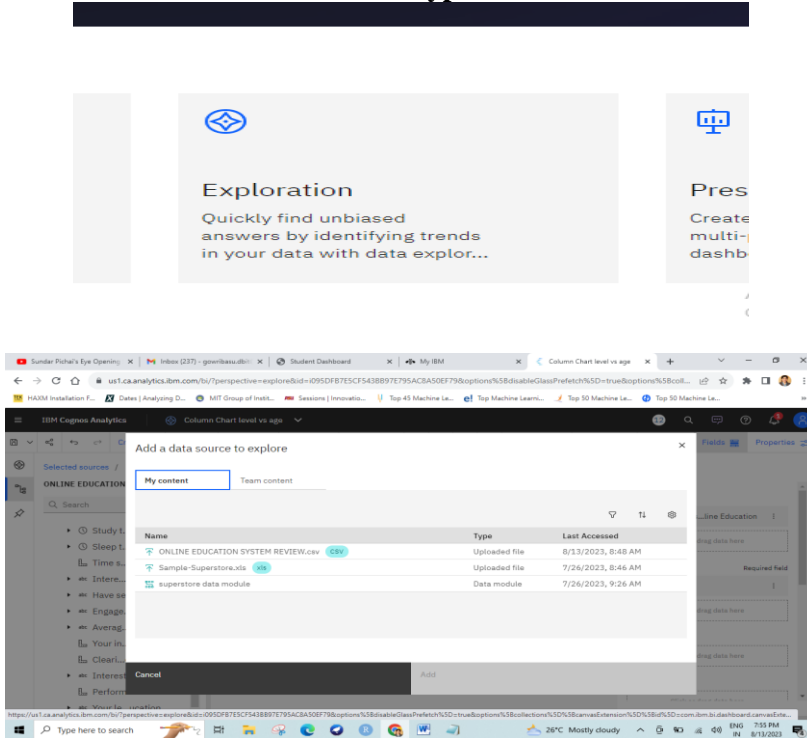
Explorations

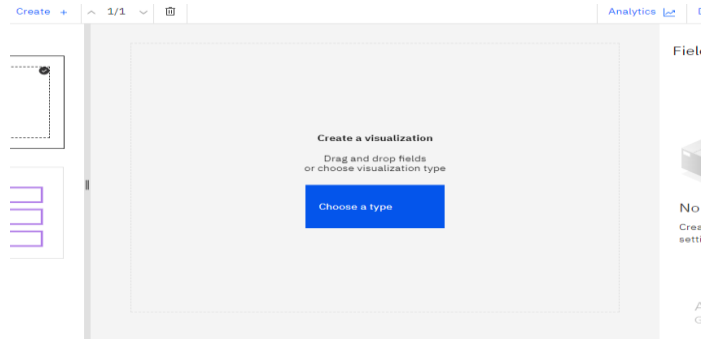
Data Visualization

Activity 1.1: Column Chart:

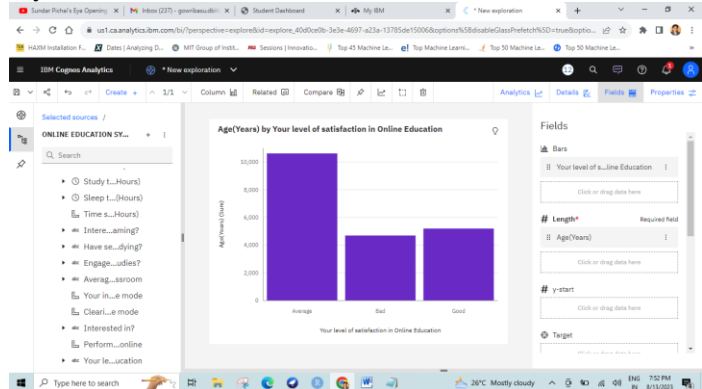
A Column chart can compare the data across different categories. The height of the bars represents the measured value of each category. It can be represented as vertical and horizontal type bar charts. The procedure to create a bar chart is given as follows.

Note: Before creating our first visualization, click on explorations and select the data from ‘My Content’ and then select ‘Add’ you will be redirected to the exploration interface, then click on create and select ‘single visualization’ and then choose the visualization type





- Drag 'Your level of satisfaction with online education' into Bars
- Drag 'Age' into Rows.
- It creates a Bar chart by default.

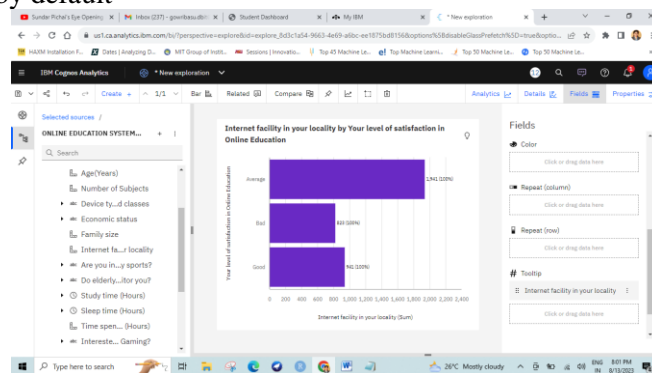


Activity 1.2: Bar Chart:

A bar chart can compare data across different categories, The height of the bars represents the measured value of each category. It can be represented as vertical and horizontal type bar charts. The procedure to create a bar chart is given as follows.

Step 1) Go to a new exploration page by clicking on 'create +' option.

- Drag 'Your level of satisfaction in online education' into Bars.
- Drag 'internet facility in your locality' in length
- It creates a bar chart by default



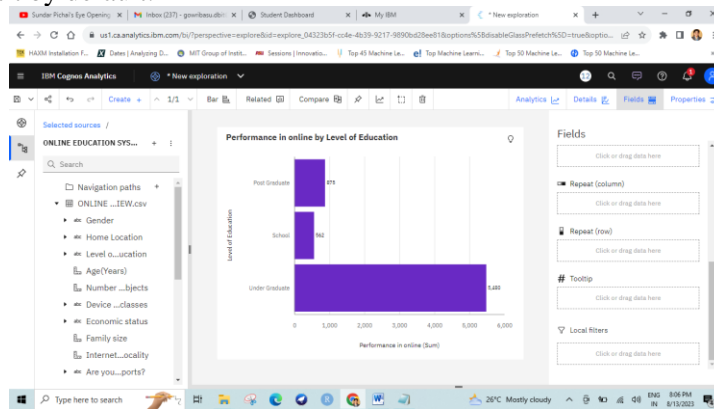
Activity 1.3: Bar chart:

A bar chart can compare data across different categories, The height of the bars represents the measured value of each category. It can be represented as vertical and horizontal type bar charts. The procedure to create a bar chart is given as follows.

Step 1) Go to a new exploration page by clicking on 'create +' option.

- Drag 'Level of Education' into Bars
- Drag 'Performance in online' in length

- It creates a Bar chart by default.

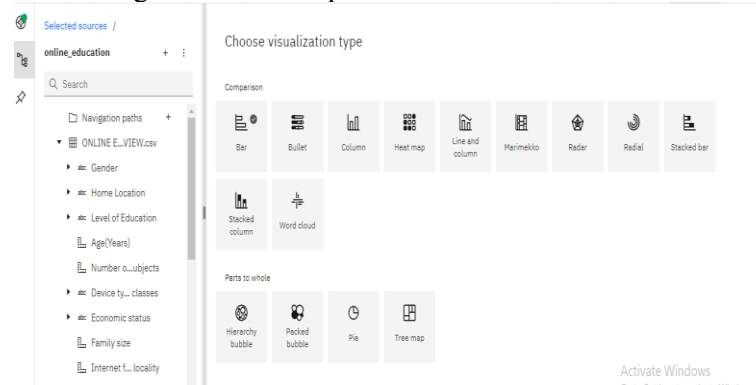


Activity 1.4: Pie Chart:

A pie chart can show the segment-wise data. It can show the contribution of measure over different members in a dimension. The angle of the pie determines the measured value. Different colors can be assigned to pie to represent the members in a dimension.

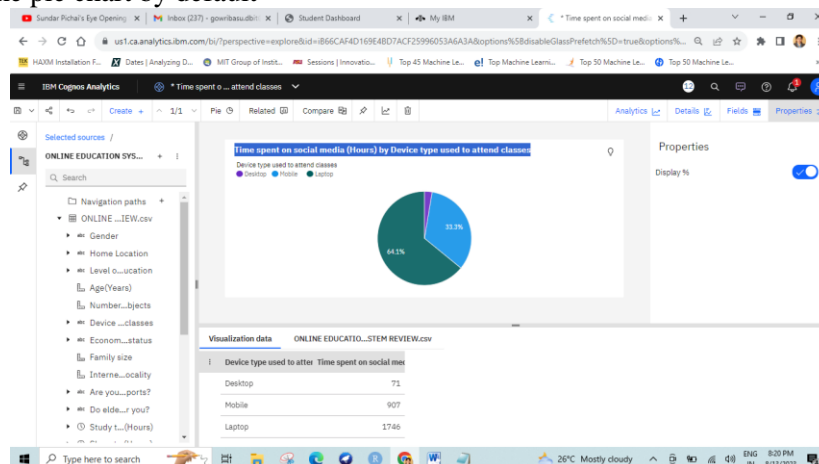
Step 1) Go to a new exploration page by clicking on ‘create +’ option.

- Select pie chart after clicking on ‘create +’ option



Step 2) Drag ‘Device type used to attend online classes’ in segment field and drag ‘Time spent on social media (hours)’ in size field

- You will get the pie chart by default

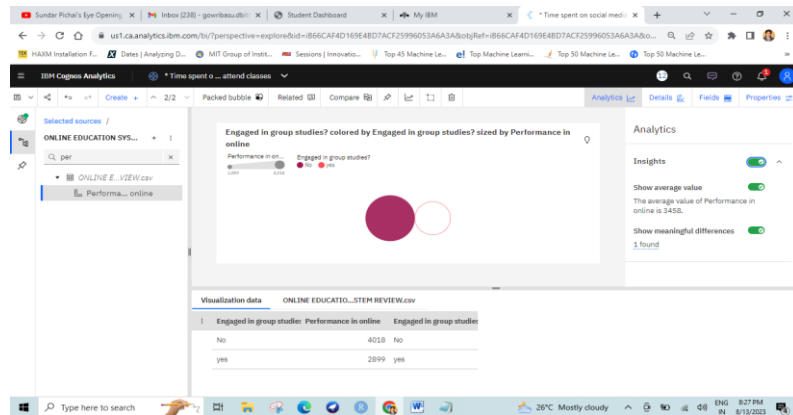


Activity 1.5: Packed Bubble:

The packed bubble charts are used to display data in a cluster of circles. Dimensions define the individual bubbles, and measures define the size and color of the individual circles.

Step 1) Go to a new exploration page by clicking on ‘create +’ option. and from that select the ‘packed bubbles’ chart

- Drag ‘Engaged in group studies’ into Bubbles and color.
- Drag ‘Performance in online’ into Size.



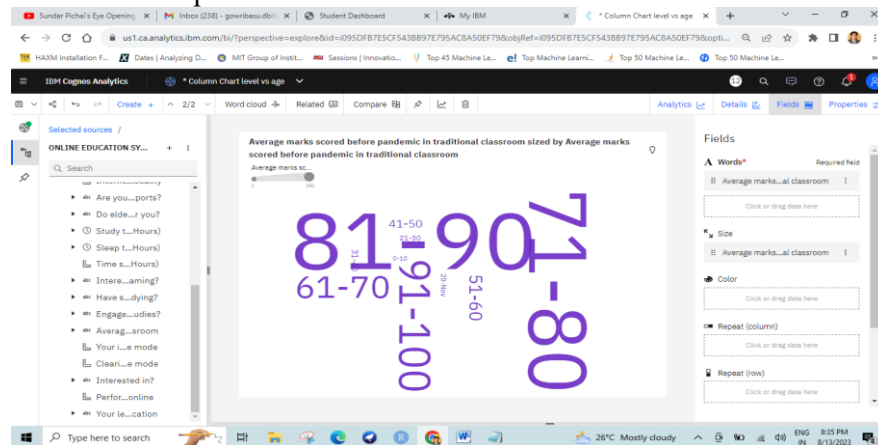
This creates a Packed bubble chart by default.

Activity 1.6: Word Cloud:

A word clouds or tag clouds are graphical representations of word frequency that give greater prominence to words that appear more frequently in a source text

Step 1) Go to a new exploration page by clicking on ‘create +’ option. and from that select the ‘word count’ chart

Drag ‘Average marks scored before pandemic in traditional classroom’ in both words field & size field

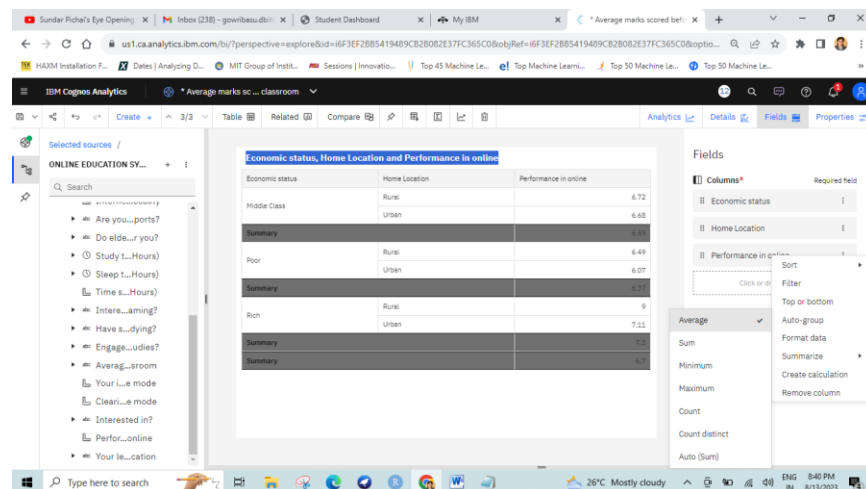
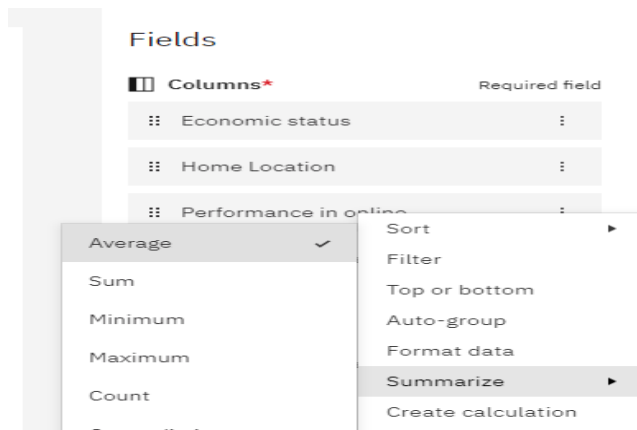
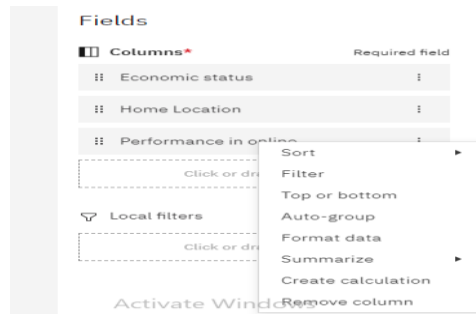


Activity 1.7: Table

A Table visualizes the measure & dimensions (data fields) in the form of rows and columns. It is better to use tables when the categories in the data field are limited

Step 1) Go to a new exploration page by clicking on ‘create +’ option. and from that select the ‘Table’

- Drag ‘Economic status’, ‘Home Location’ & ‘Performance in online’ in columns
- after that click the ‘three dots’ in the ‘performance in online’ field and click on ‘summarize’ option and then select ‘average’



Activity 1.8: Radial Chart:

A Radial/Circular Bar Chart simply refers to a typical Bar Chart displayed on a polar coordinate system, instead of a cartesian system. It is used to show comparisons among categories by using a circular shape.

Step 1) Go to a new exploration page by clicking on ‘create +’ option. and from that select the ‘Radial’

The procedure to create a radial chart is shown below.

- Drag ‘interested in ?’ in bars field
- Drag ‘performance’ in online in length field
- after that click the ‘three dots’ in the length field and click on ‘summarize’ option and then select ‘average’

