Pair/Share

What is your level of experience with Power BI or other data visualization tools?

Power BI: Tips, Considerations, and Stories

CALIFORNIA ASSOCIATION FOR INSTITUTIONAL RESEARCH (CAIR) 2019 CONFERENCE

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NOVEMBER 8, 2019

Session Outcomes

Develop a better understanding of Mt. SAC's journey in effectively using feedback from end-users leading to improved dashboards and procedures.

Gain introductory knowledge to begin creating new measures.

Understand important tasks for 508/ADA Compliance.

Learn best practices for data security when building and sharing dashboards.

Data Review

Planning for Institutional Effectiveness

Credit - Data Review

Noncredit - Data Review

PIE Planning and Resources

Improving the Planning Process

Office of Instruction

Outcomes Assessment

Strategic Planning

Institutional Set Standards

Outcomes Reports

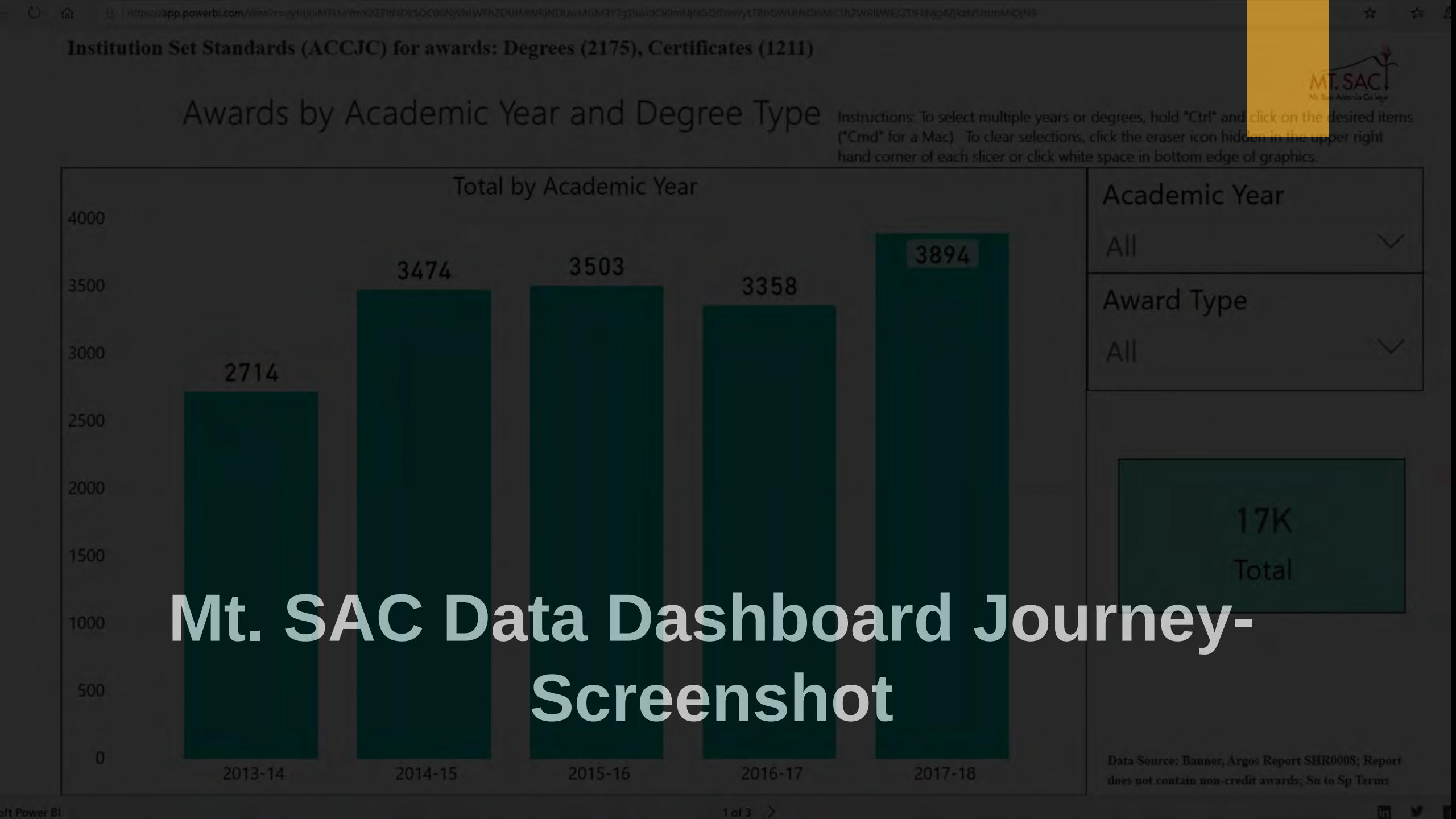
Recent

Subsites

Recycle Bin

Please choose one of the Data Sets below to get started

- **Educational Goals & Ed Plans**
- **Enrollment Demographics**
- **Course Enrollment**
- **Course Success**
- **Success Data by Subject**
- **Retention Data**
- **Distance Learning & Hybrid**
- **Awards**
- **Transfer Data**



Mt. SAC Data Dashboard Journey- Screenshot

Mt. SAC Journey with Data Dashboards Program Review - Part I

- Validation process
- 1st round of Data Review Dashboards Implemented
- Training sessions

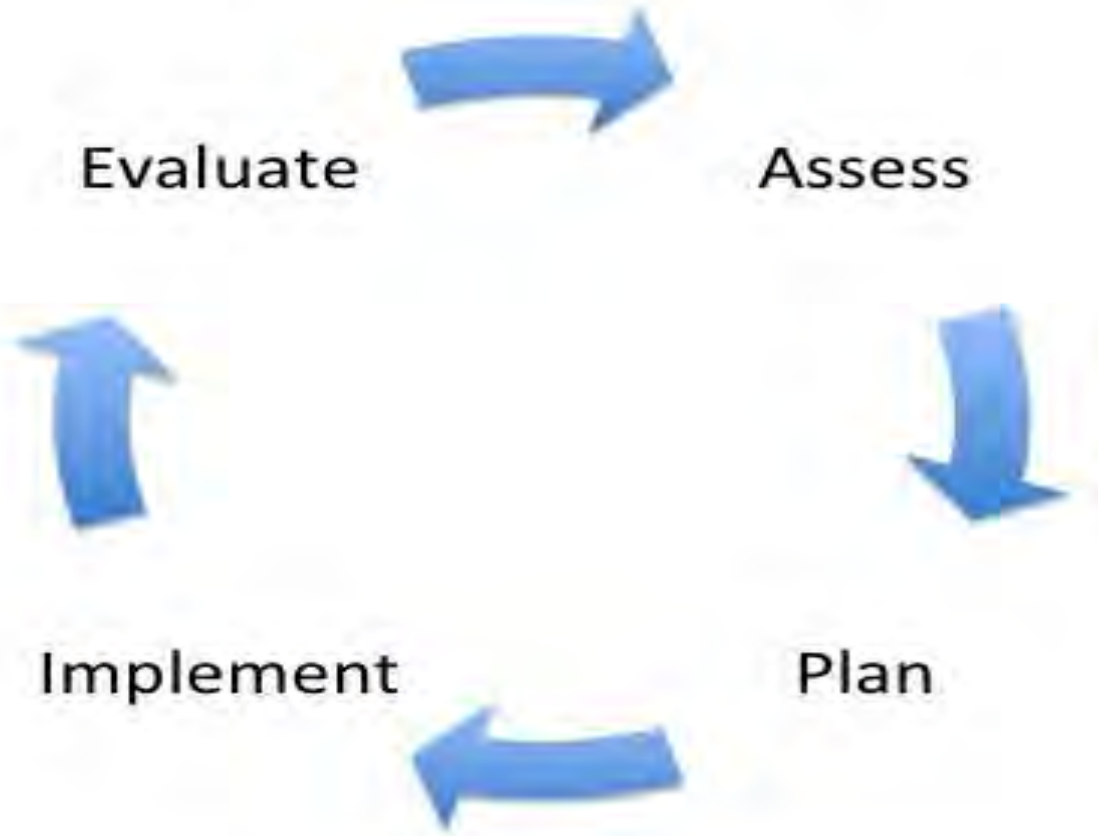
Mt. SAC Program Review Journey Part II

USER FEEDBACK

2019 SURVEY

TODAY

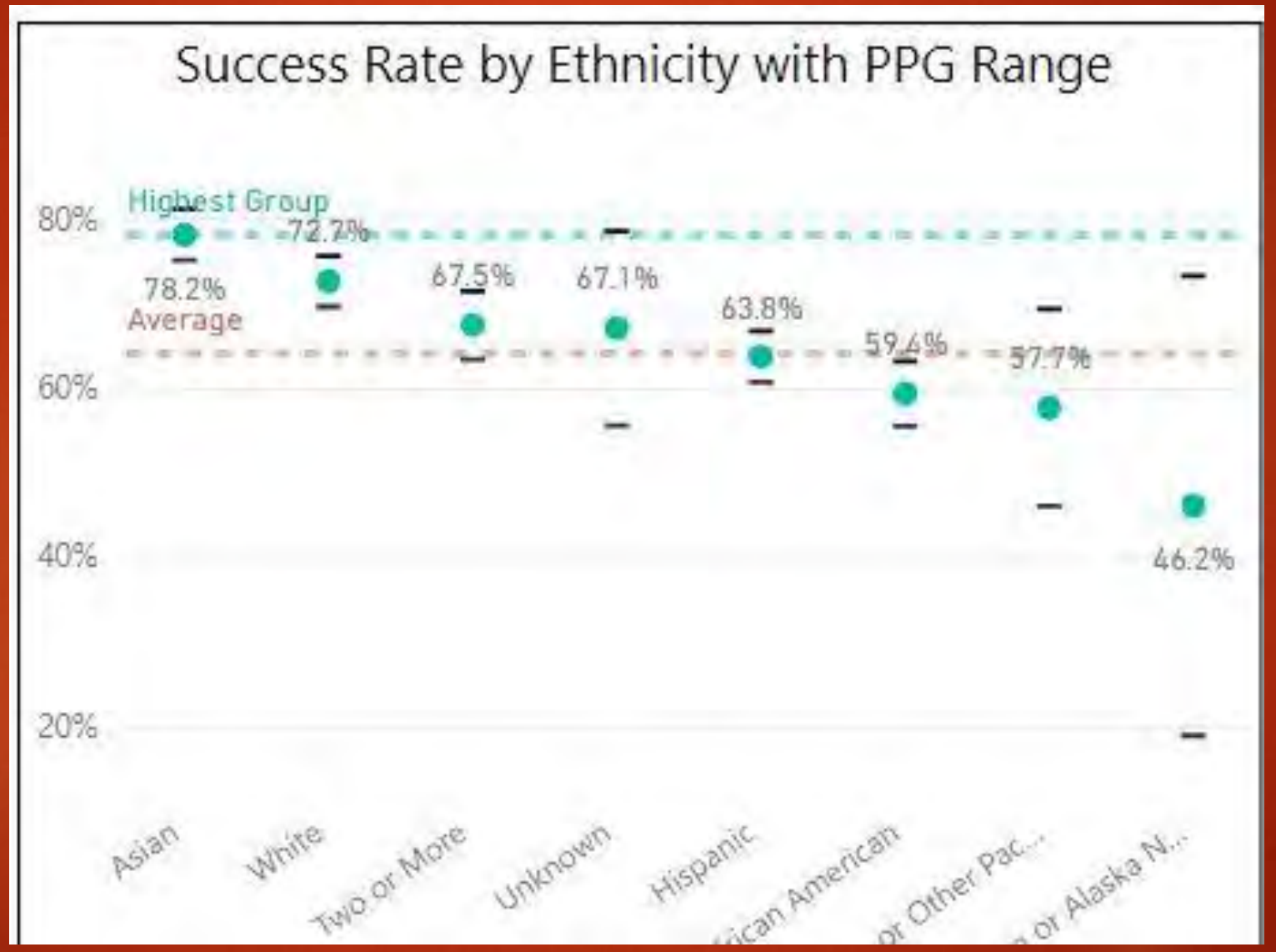
Fast Feedback Loop



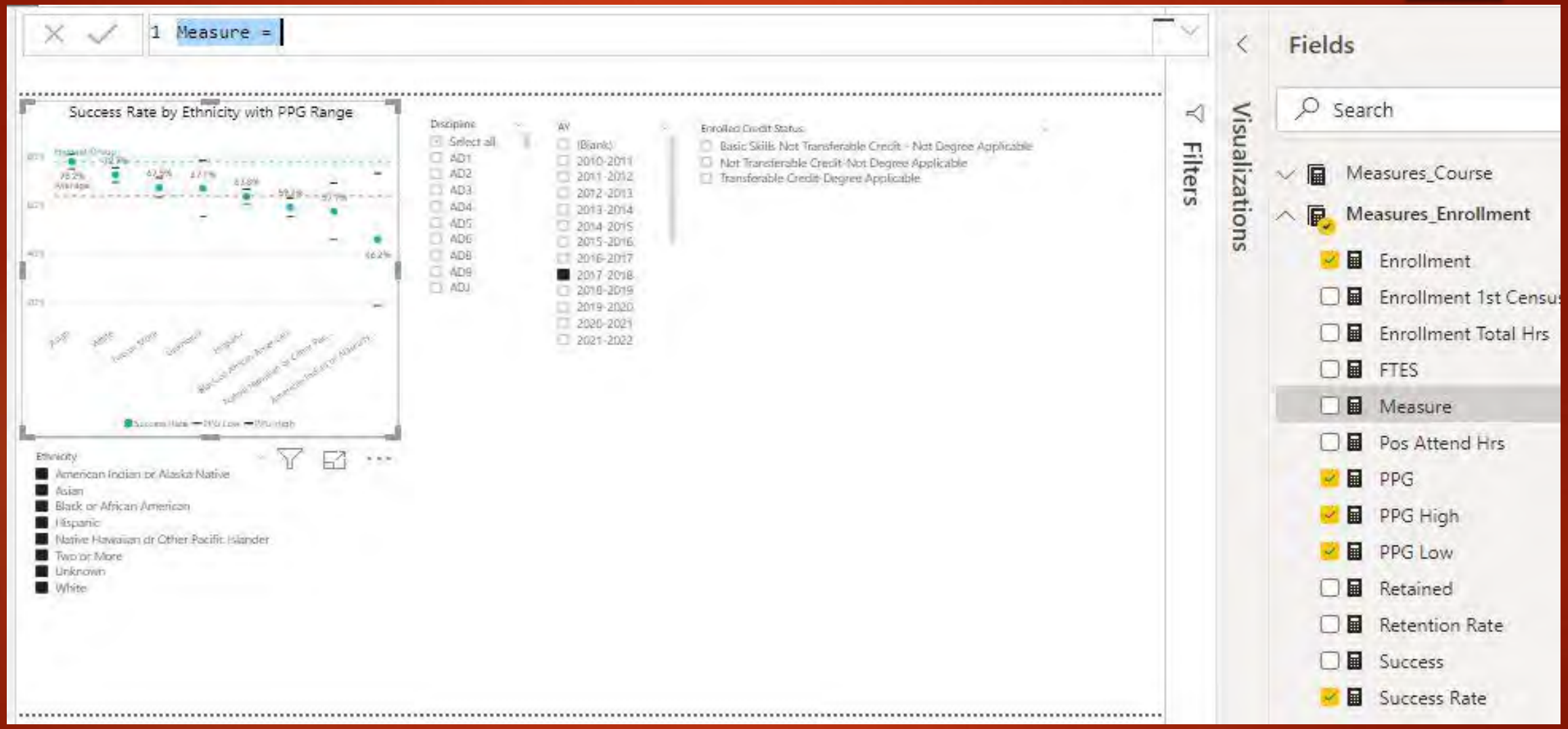
Measures

- You CAN do it!
- Write a formula
- Why:
  - Add a measure
  - Constrain a measure (all …)

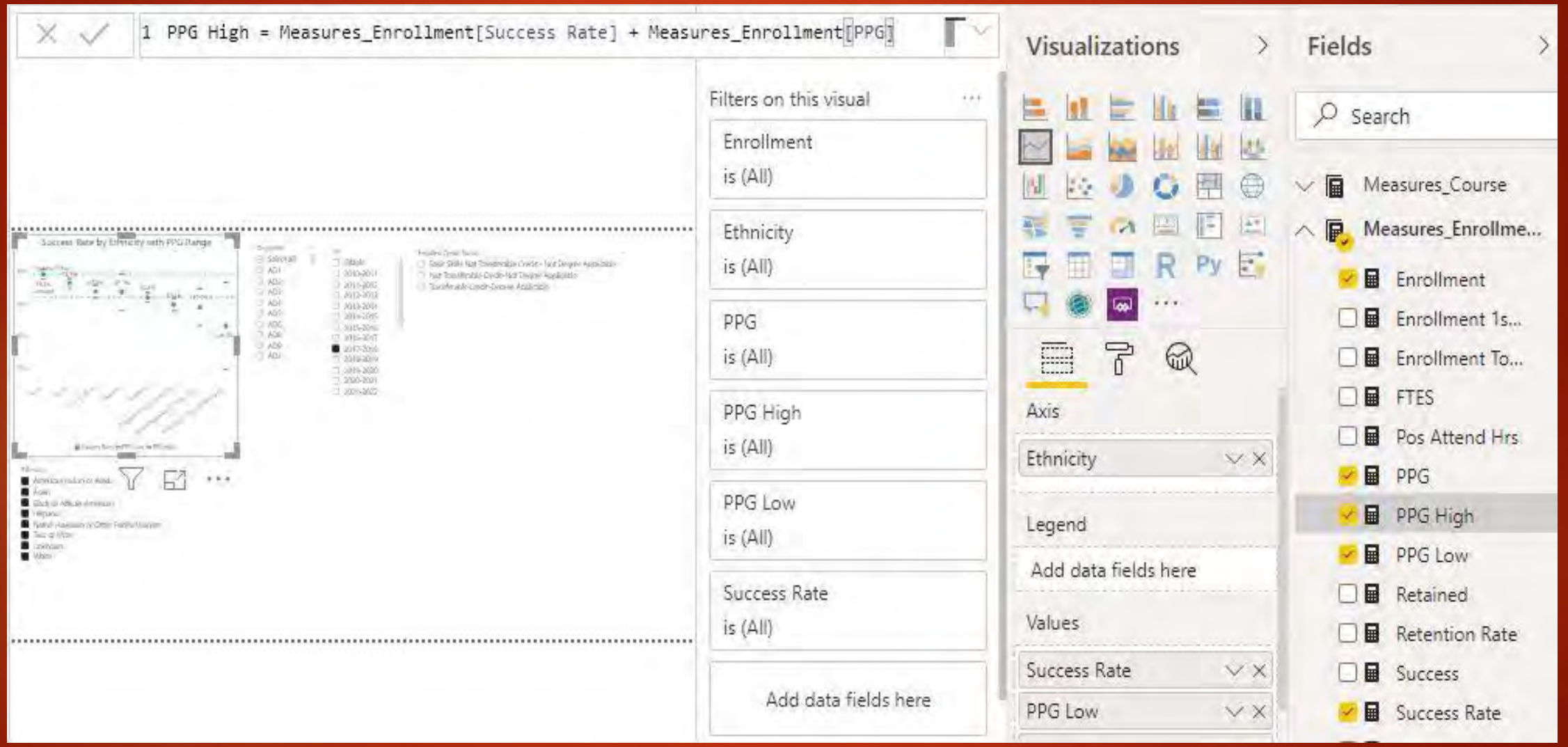
Add a Measure: PPG Range



Add a Measure: New Measure

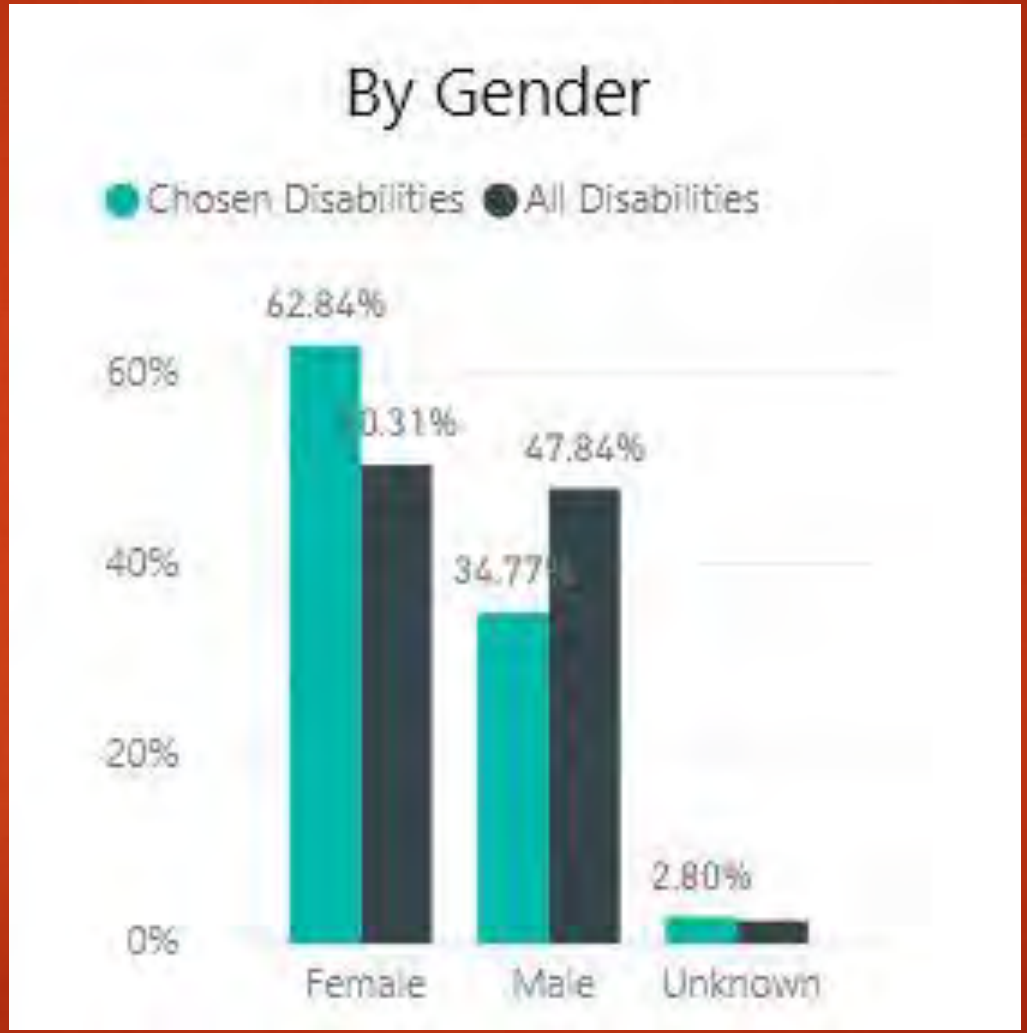


Add a Measure: PPG High



Add a Measure: PPG {Messy Math}

Add a Measure: All vs Selected



Add a Measure: All of ...

All ACCESS Students Unduplicated =

Calculate('Student-DSPS'[Student-DSPS Unduplicated Count],

all('Student-DSPS'[Student Primary Disability]))

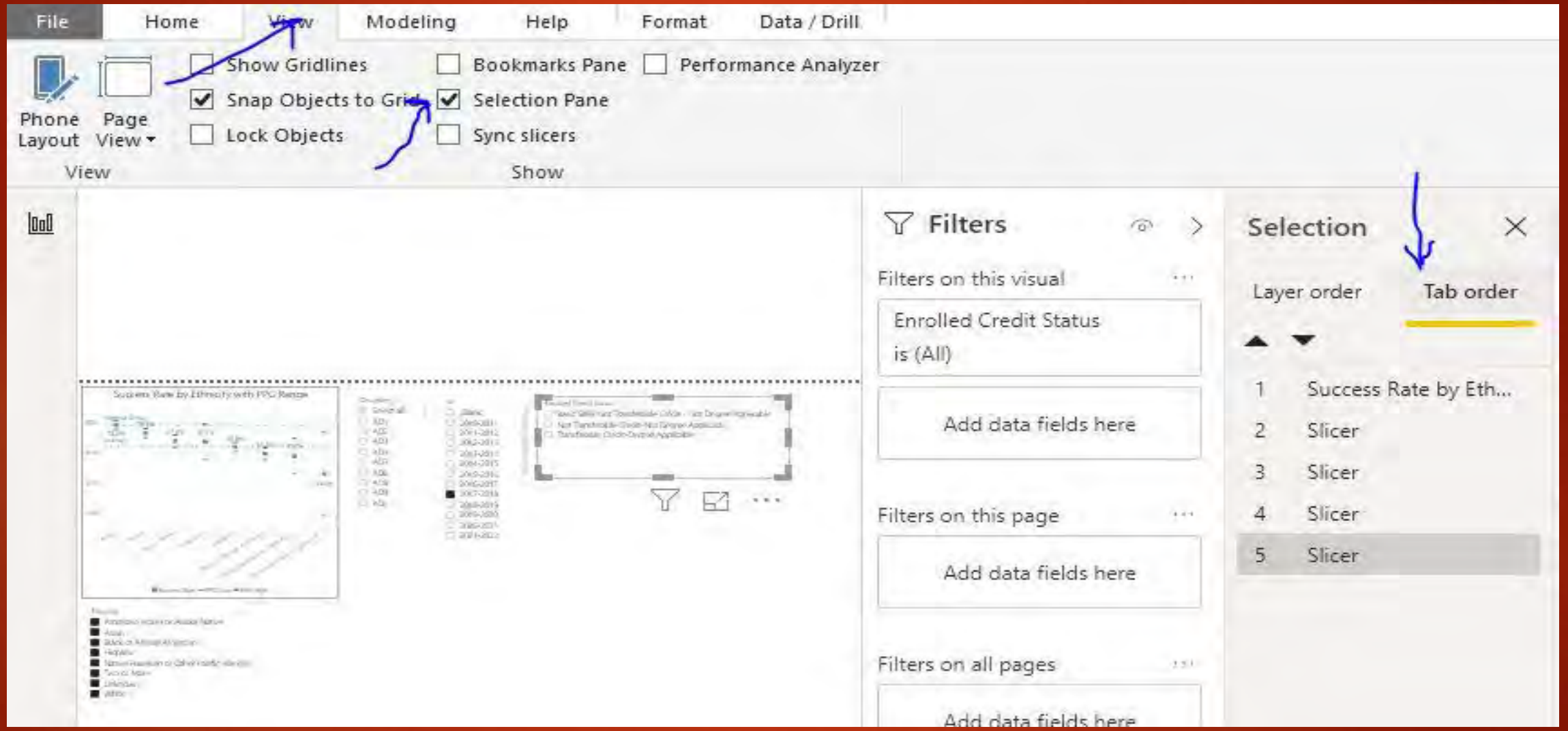
508/ADA Compliance

- Included in Power BI:
  - Keyboard navigation
  - Show data table (alt-shift-F11)

508/ADA Compliance

- Screen readers state:
  - Title, visual type, alt-text
- So...
  - Give good, descriptive titles
  - Enter the alt-text

508/ADA Compliance: Tab Order



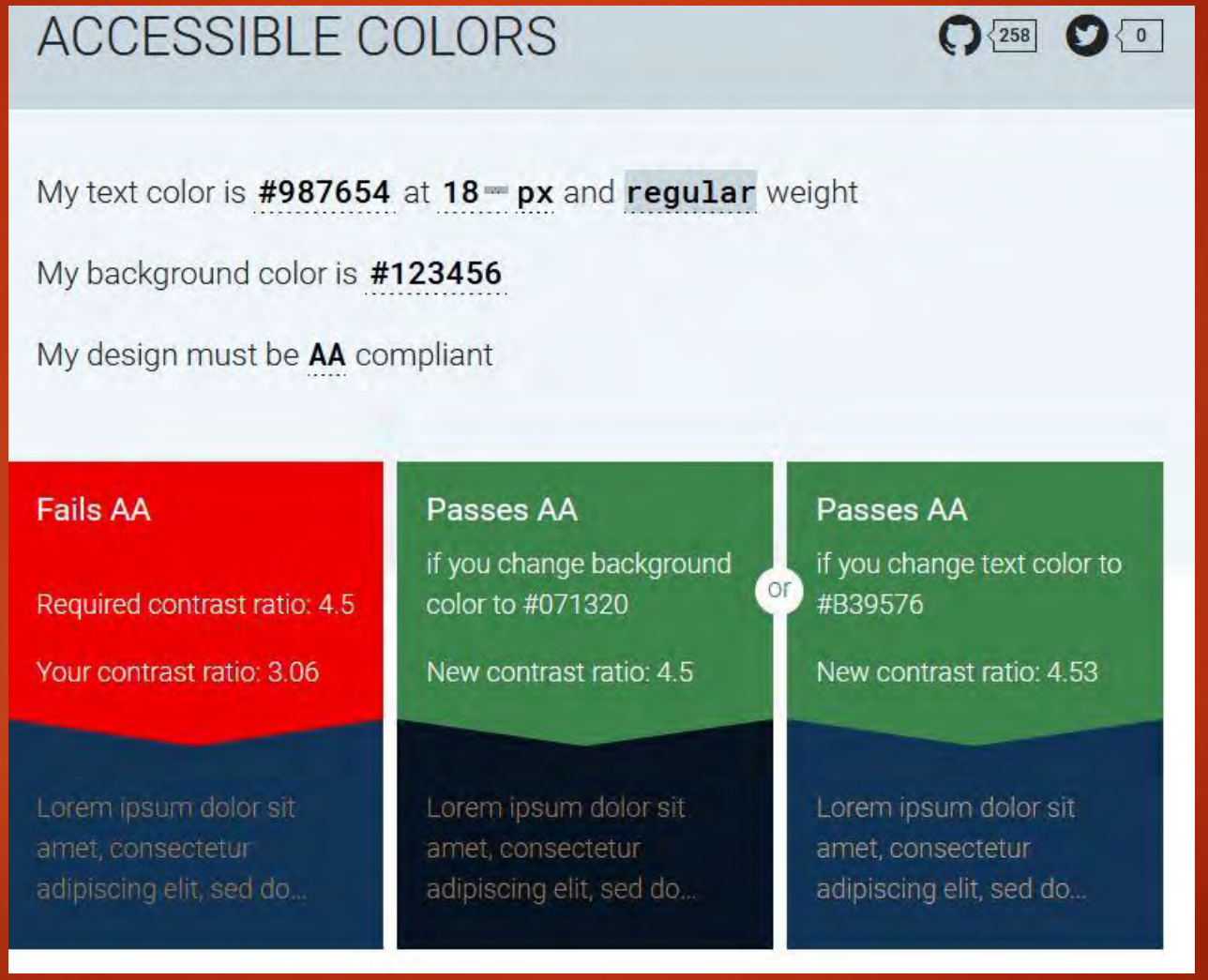
508/ADA Compliance: Contrast

- Can you read this?
- Can you read this?
- How about this?

508/ADA Compliance: Links

- Color Contrast:
  - accessible-colors.com/ (gives suggestions)
  - webaim.org/resources/contrastchecker/
  - websemantics.uk/tools/wcag-colour-contrast-checker/
  - www.rapidtables.com/convert/number/decimal-to-hex.html (If you need to convert from RGB to/from hex)
- Color Blind Checking:
- Browser Add Ons
  - Chrome: colorblinding
  - Firefox: Let's get color blind
- Check documents:
  - coblis: www.color-blindness.com/coblis-color-blindness-simulator/ (image files only)
  - www.toptal.com/designers/colorfilter/ (works on webpages)

Color Contrast



508/ADA Compliance: Credits

- A lot of the ADA information came from the presentation:

  Microsoft Power BI: Creating accessible Power BI reports

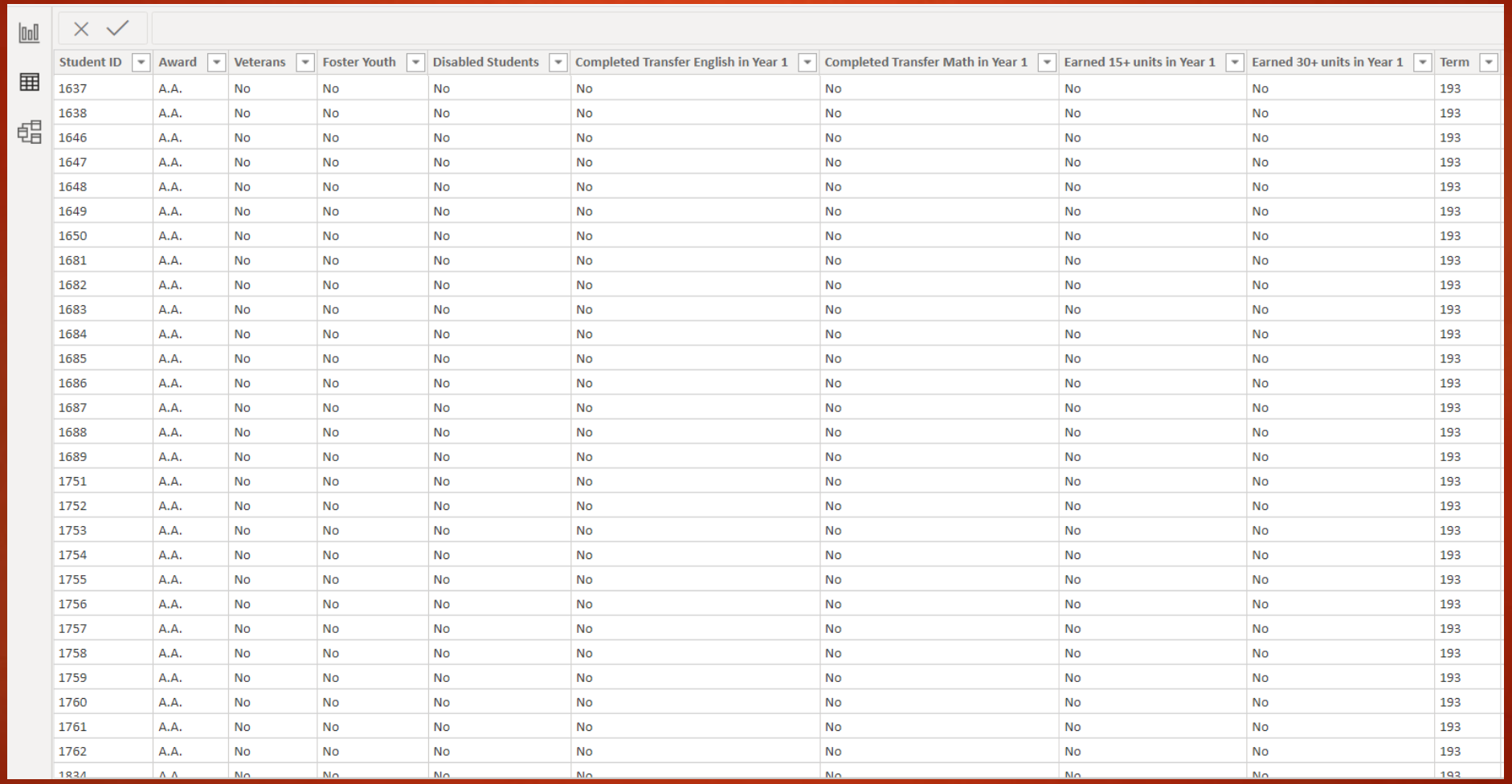
  By Meagan Longoria and Tessa Hurr

  MBAS Gallery: BRK2036

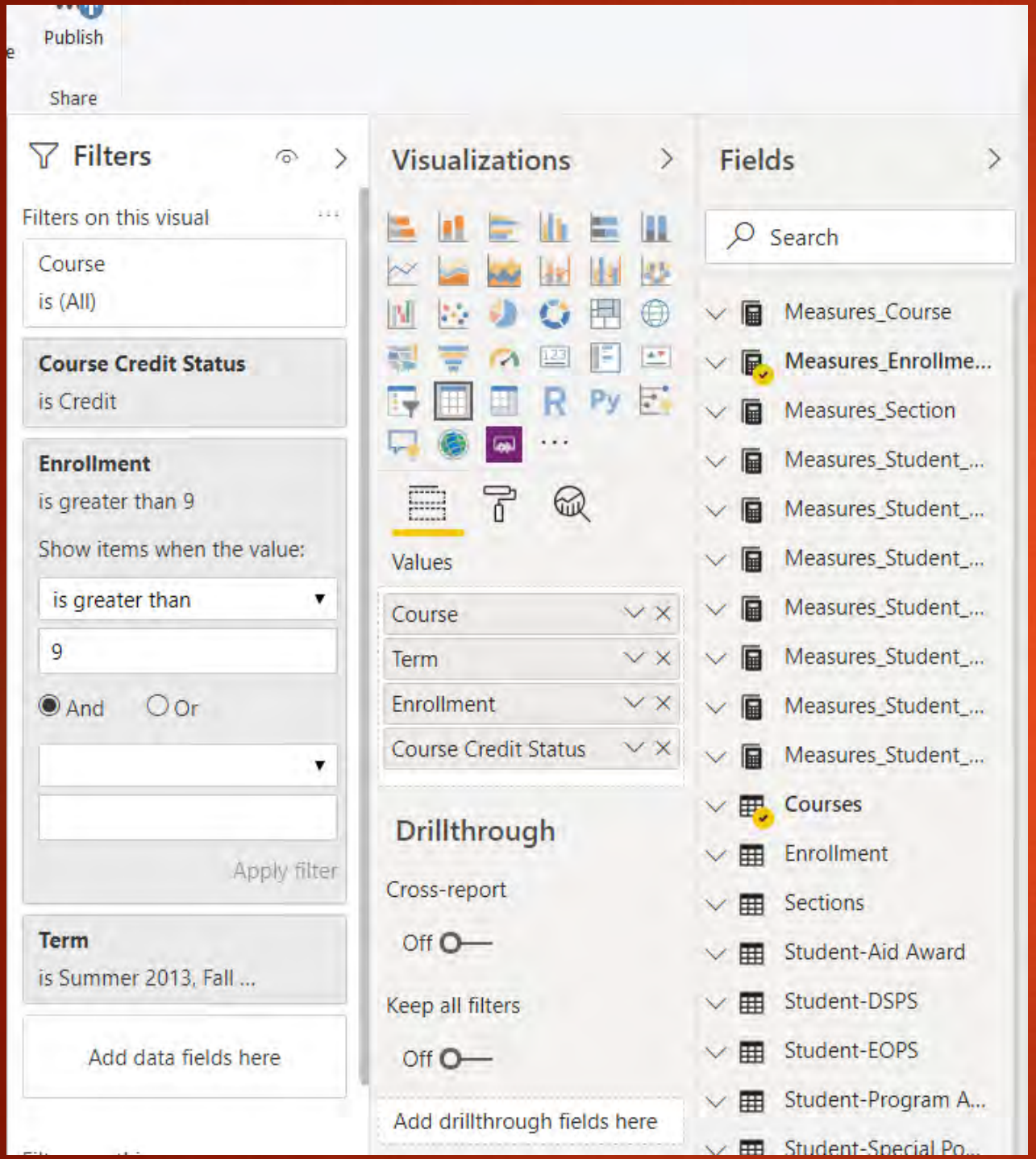
  community.powerbi.com/t5/MBAS-Gallery/Microsoft-Power-BI-Creating-accessible-Power-BI-reports/td-p/712528

FERPA and Data Security

Remove student IDs and sensitive information from your data.

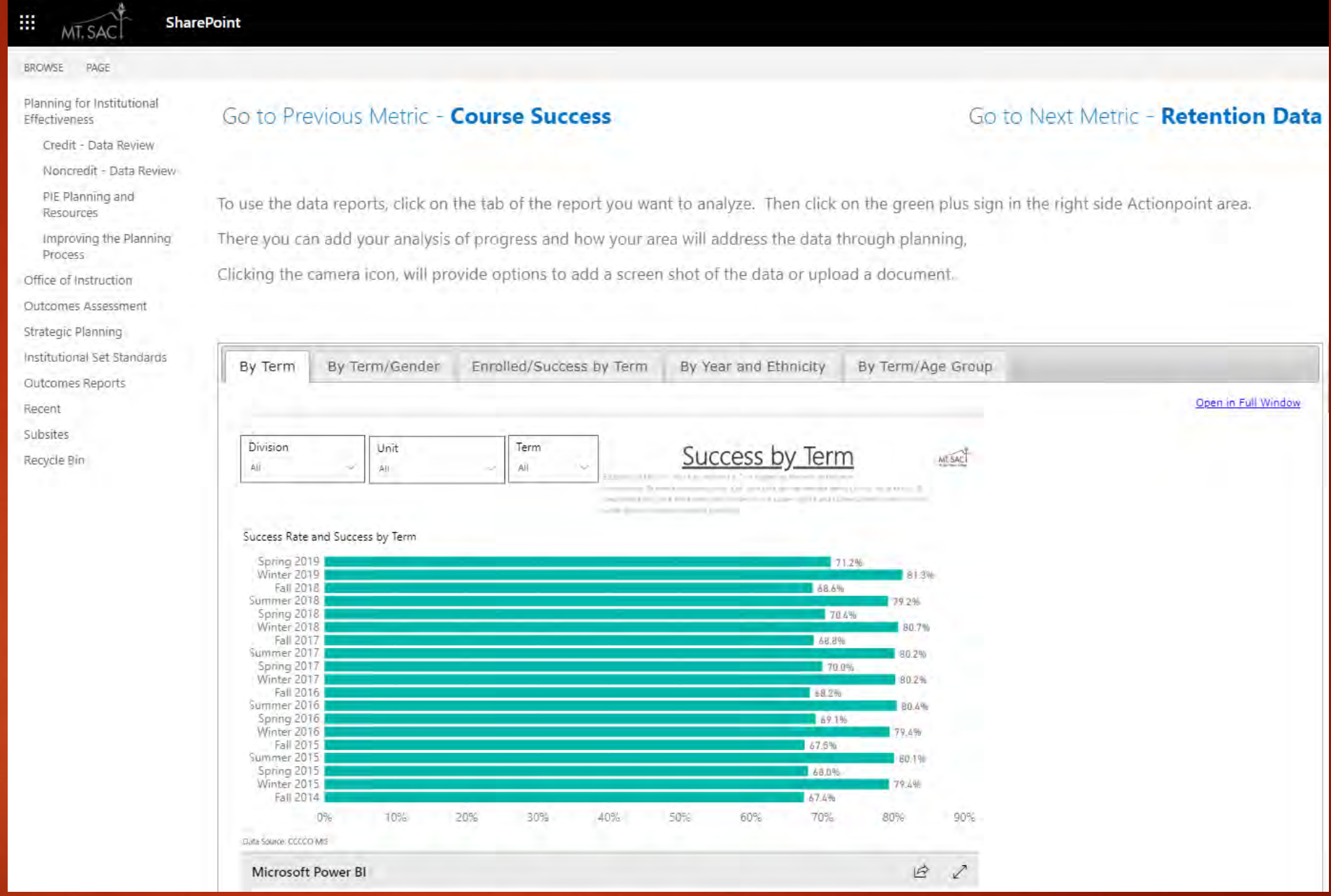


Student ID	Award	Veterans	Foster Youth	Disabled Students	Completed Transfer English in Year 1	Completed Transfer Math in Year 1	Earned 15+ units in Year 1	Earned 30+ units in Year 1	Term
1637	A.A.	No	No	No	No	No	No	No	193
1638	A.A.	No	No	No	No	No	No	No	193
1646	A.A.	No	No	No	No	No	No	No	193
1647	A.A.	No	No	No	No	No	No	No	193
1648	A.A.	No	No	No	No	No	No	No	193
1649	A.A.	No	No	No	No	No	No	No	193
1650	A.A.	No	No	No	No	No	No	No	193
1681	A.A.	No	No	No	No	No	No	No	193
1682	A.A.	No	No	No	No	No	No	No	193
1683	A.A.	No	No	No	No	No	No	No	193
1684	A.A.	No	No	No	No	No	No	No	193
1685	A.A.	No	No	No	No	No	No	No	193
1686	A.A.	No	No	No	No	No	No	No	193
1687	A.A.	No	No	No	No	No	No	No	193
1688	A.A.	No	No	No	No	No	No	No	193
1689	A.A.	No	No	No	No	No	No	No	193
1751	A.A.	No	No	No	No	No	No	No	193
1752	A.A.	No	No	No	No	No	No	No	193
1753	A.A.	No	No	No	No	No	No	No	193
1754	A.A.	No	No	No	No	No	No	No	193
1755	A.A.	No	No	No	No	No	No	No	193
1756	A.A.	No	No	No	No	No	No	No	193
1757	A.A.	No	No	No	No	No	No	No	193
1758	A.A.	No	No	No	No	No	No	No	193
1759	A.A.	No	No	No	No	No	No	No	193
1760	A.A.	No	No	No	No	No	No	No	193
1761	A.A.	No	No	No	No	No	No	No	193
1762	A.A.	No	No	No	No	No	No	No	193
1834	A.A.	No	No	No	No	No	No	No	193

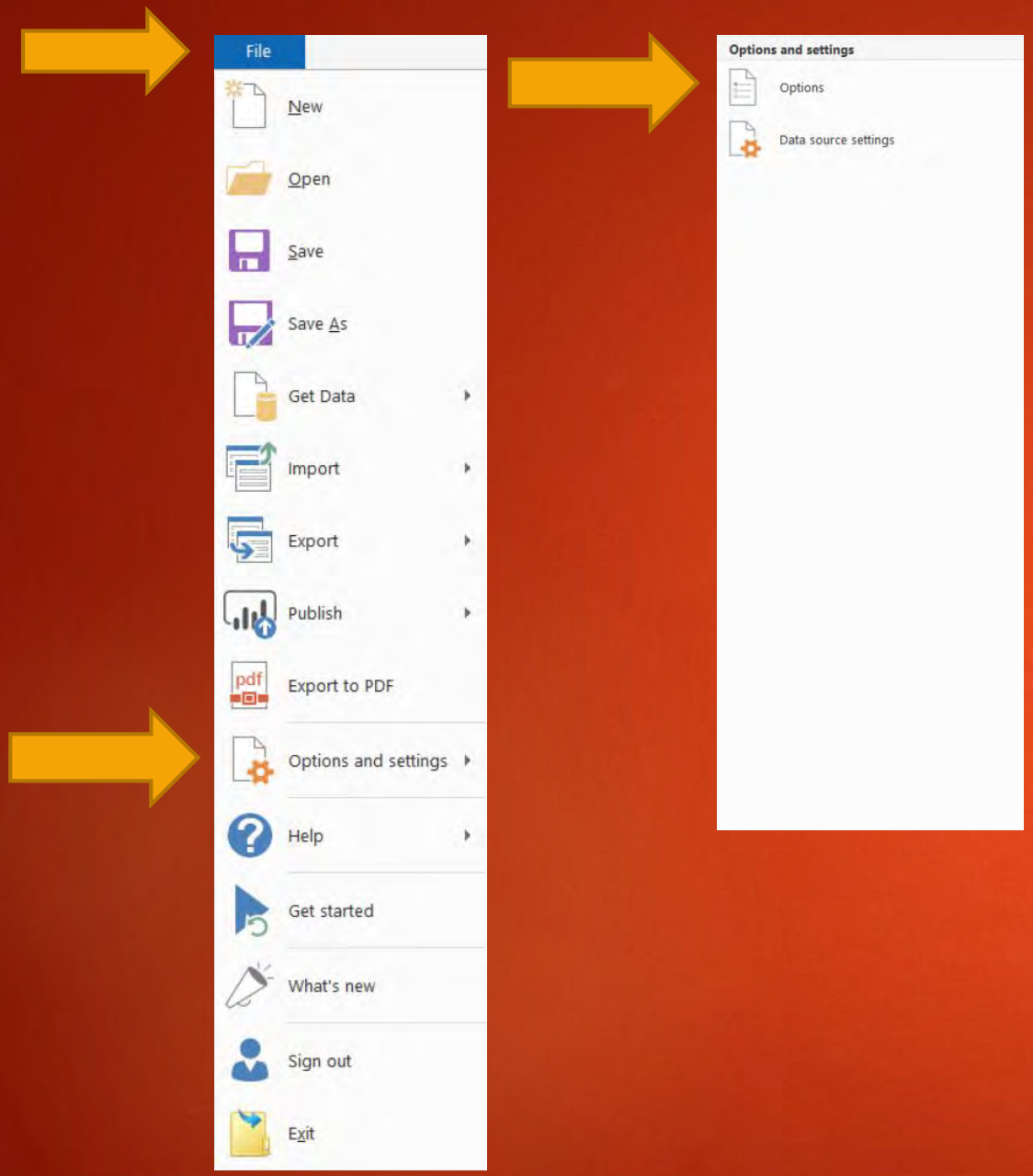


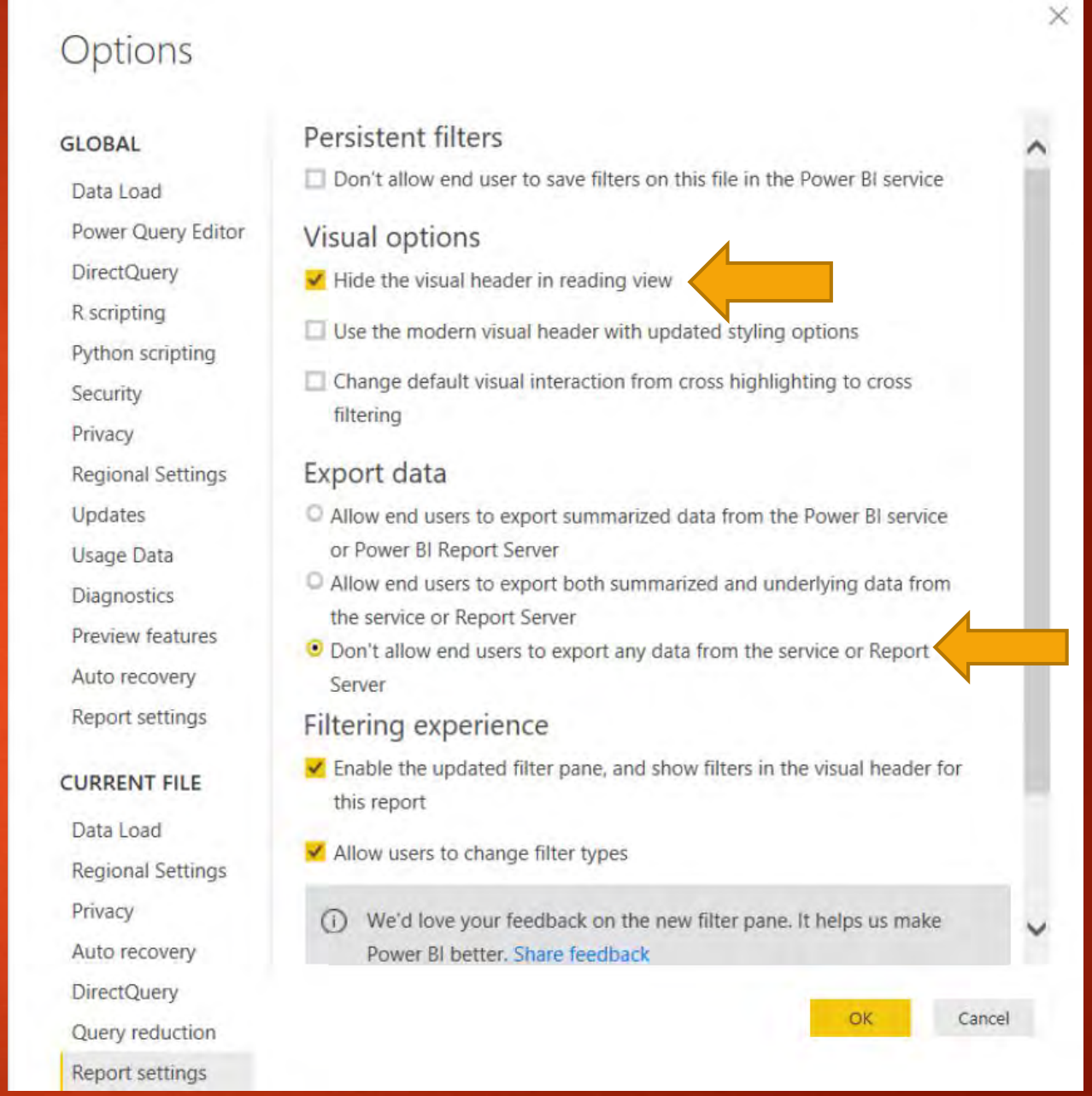
Make records <10 non-accessible

Share your reports and dashboards internally

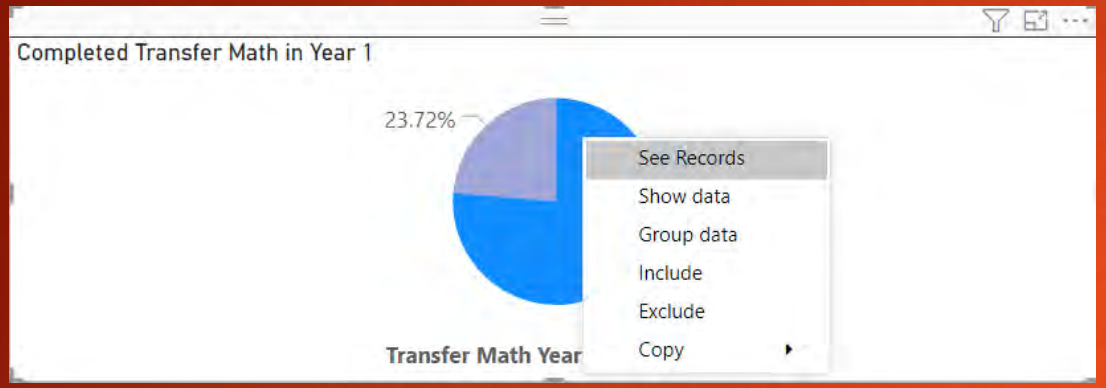


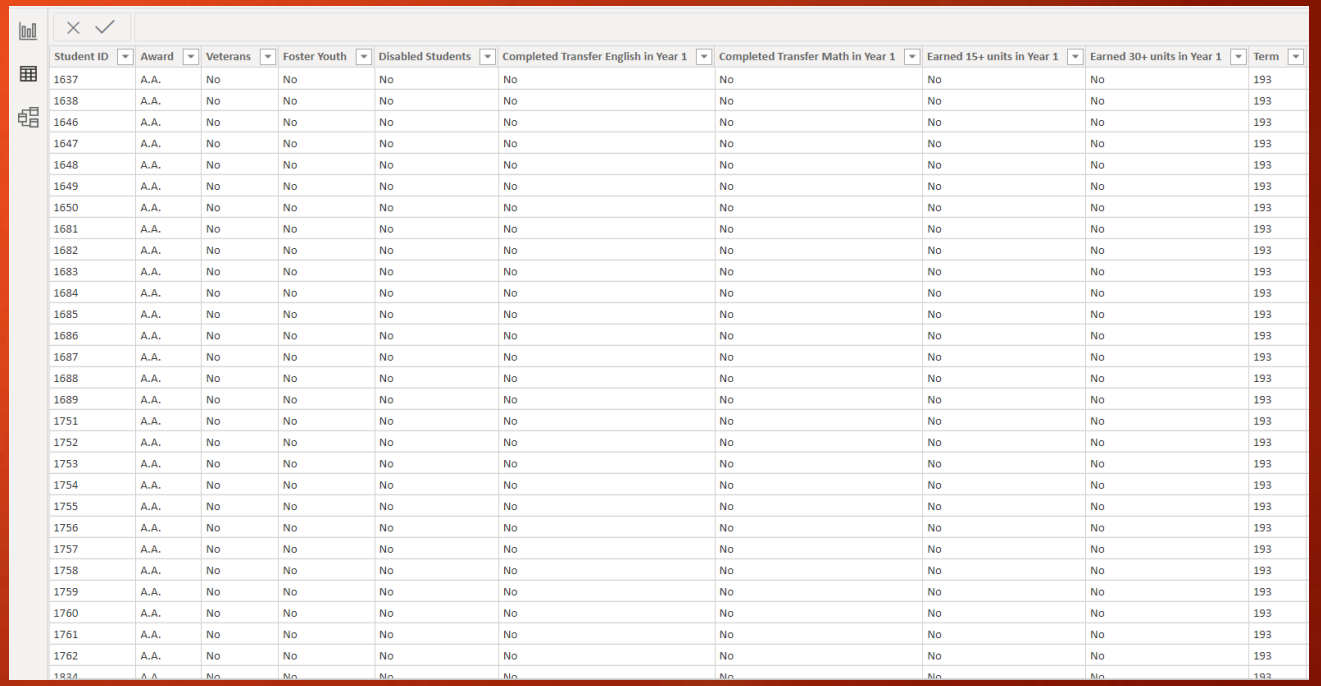
Restrict end users to download data from reports/dashboards


File
New
Open
Save
Save As
Get Data
Import
Export
Publish
Export to PDF
Options and settings
Help
Get started
What's new
Sign out
Exit
Options and settings
Options
Data source settings


Options
GLOBAL
Data Load
Power Query Editor
DirectQuery
R scripting
Python scripting
Security
Privacy
Regional Settings
Updates
Usage Data
Diagnostics
Preview features
Auto recovery
Report settings
CURRENT FILE
Data Load
Regional Settings
Privacy
Auto recovery
DirectQuery
Query reduction
Report settings
Persistent filters
Don't allow end user to save filters on this file in the Power BI service
Visual options
Hide the visual header in reading view
Use the modern visual header with updated styling options
Change default visual interaction from cross highlighting to cross filtering
Export data
Allow end users to export summarized data from the Power BI service or Power BI Report Server
Allow end users to export both summarized and underlying data from the service or Report Server
Don't allow end users to export any data from the service or Report Server
Filtering experience
Enable the updated filter pane, and show filters in the visual header for this report
Allow users to change filter types
We'd love your feedback on the new filter pane. It helps us make Power BI better. Share feedback
OK
Cancel

Double-check your visuals





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Power BI & Data Security (8/5/2019)
Aaron Voelcker and Katy Wilson

Link:
https://cccconfer.zoom.us/recording/play/spZZQOBe9NnjFV13eiUkkj8n1rHaHfrqLXtB3B13ISVKl83IlMvyJype30IzuvU1?continueMode=true

Connecting the Dots...

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Questions ?