



ALAMO COLLEGES DISTRICT
Palo Alto College

Developing a THECB Benchmarking Dashboard in Power BI

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COLLEGES
DISTRICT



Malcolm Baldrige
National Quality Award
2018 Award Recipient

Achieving the Dream | LEADER COLLEGE

Dashboard In-Depth

Outcomes:

- Cover the data collection and process used to create the dashboard
- Demonstrate how to use the dashboard to conduct comparative analyses
- Learn how to replicate the dashboard for your institution



Overview

The presentation will cover:

- Source
- Methodology
- Development
- Dashboard Demonstration
- Question and Answer Session





Student Performance

Course Performance

Persistence Rate

Awards

FTIC Graduation and Transfer Rates

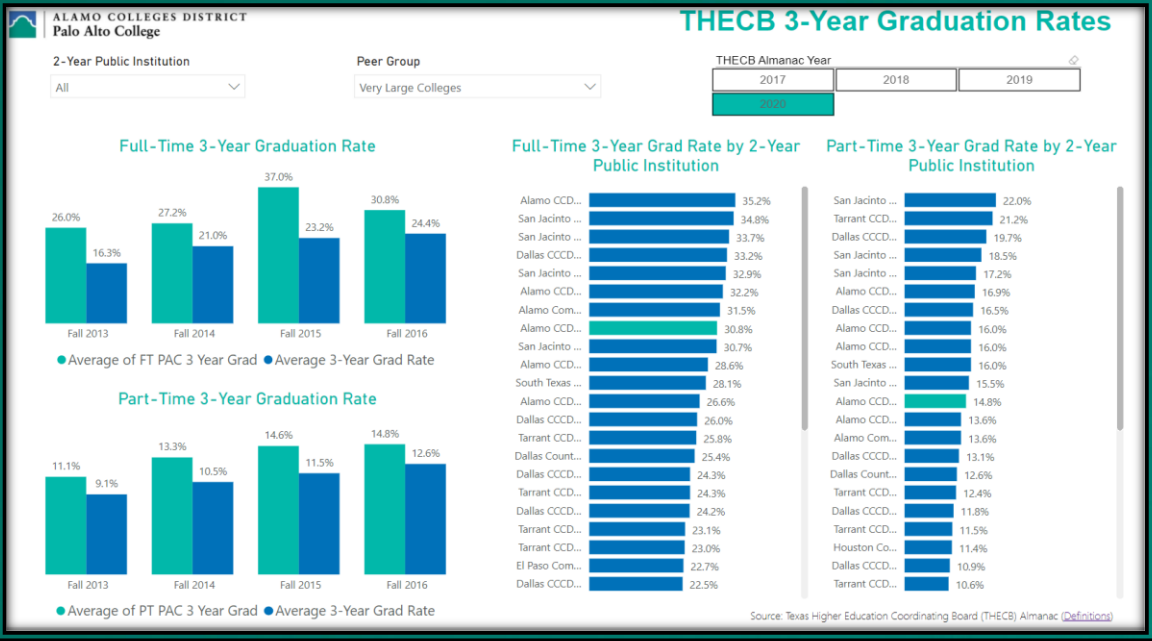
Student Achievement Scorecard

THECB Completion Measures

THECB Benchmarking

Pacdataportal.org

THECB Benchmarking



Source

Texas Higher Education Coordinating Board

- Using Texas Public Higher Education Almanac Reports:

<https://www.highered.texas.gov/data-reports/texas-public-higher-education-almanac/>

- Download yearly Almanac data. Includes raw data for State and Institutions (Public 2-Year and 4-Year)

60x30TX Plan, Pay, & Complete College Institutional Resources & Programs Data & Reports Legislative &

Data Resources Overview

Texas Public Higher Education Almanac

Texas Higher Education Data Homepage

60x30TX.com

Texas Higher Education Accountability System

Texas Public Higher Education Almanac

A profile of state and institutional performance and characteristics.

- [2020 Texas Public Higher Education Almanac](#)
- [THECB Releases 10th Annual Texas Public Higher Education Almanac](#)
- [2020 Almanac Data](#)
- [2019 Texas Public Higher Education Almanac](#)
- [2019 Texas Public Higher Education Almanac highlights progress toward 60x30TX goals](#)
- [2019 Almanac Data](#)
- [Historical Versions of Almanac](#)



Data from THECB

Almanac Reports:

- An example of what the raw data looks like
- Append all of the desired Almanac years into one Excel file
- Clean data

2-year public institution	Year	Size	Average tuition & fees	Total Enrollment
Alamo Community College District	2017	Very Large Colleges	2108	51,349
Alamo CCD—Northeast Lakeview College	2017	Very Large Colleges	2108	3,484
Alamo CCD—Northwest Vista College	2017	Very Large Colleges	2108	16,793
Alamo CCD—Palo Alto College	2017	Very Large Colleges	2108	9,108
Alamo CCD—San Antonio College	2017	Very Large Colleges	2108	19,028
Alamo CCD—St. Philip’s College	2017	Very Large Colleges	2108	11,604
Amarillo College	2017	Large Colleges	2512	9,505
Austin Community College	2017	Very Large Colleges	2550	39,208
Blinn College District	2017	Large Colleges	3114	18,914



Methodology (Processing the Raw Data)

- How to clean the fields:
 - Check Institution names
 - Create Statewide row
 - Convert percentages into decimals
 - Clear cells with “N/A” and “See Campus”
 - Unmerge any merged cells
- 2020 Data:
 - Reports on District-Wide data but does not break down College/Campus-level
 - No longer included columns for: Year, Peer Group Size, Full-time and Part-time 4-Year Graduation rates, Student-Faculty ratio, Developmental Education and Non-Developmental Education Graduation rates



Development of Dashboard

- Upload file into Power BI
- Create individual pages for each metric of interest
- Add filters and tooltips
- Create fact sheet
- Publish



Development of Dashboard Continued

- Create Conditional Columns:
 - College specific indicators (Graduation Rate, Transfer Rate, Student Debt, etc.) create a Visualization to show our College as the comparison group
 - Add Cohort Years

Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name

	Column Name	Operator	Value	Output
If	Year	equals	ABC 123 2017	Then ABC 123 15840
Else If	Year	equals	ABC 123 2018	Then ABC 123 17860
Else If	Year	equals	ABC 123 2019	Then ABC 123 16022
Else If	Year	equals	ABC 123 2020	Then ABC 123 15182

Else

Add Conditional Column

Add a conditional column that is computed from the other columns or values.

New column name

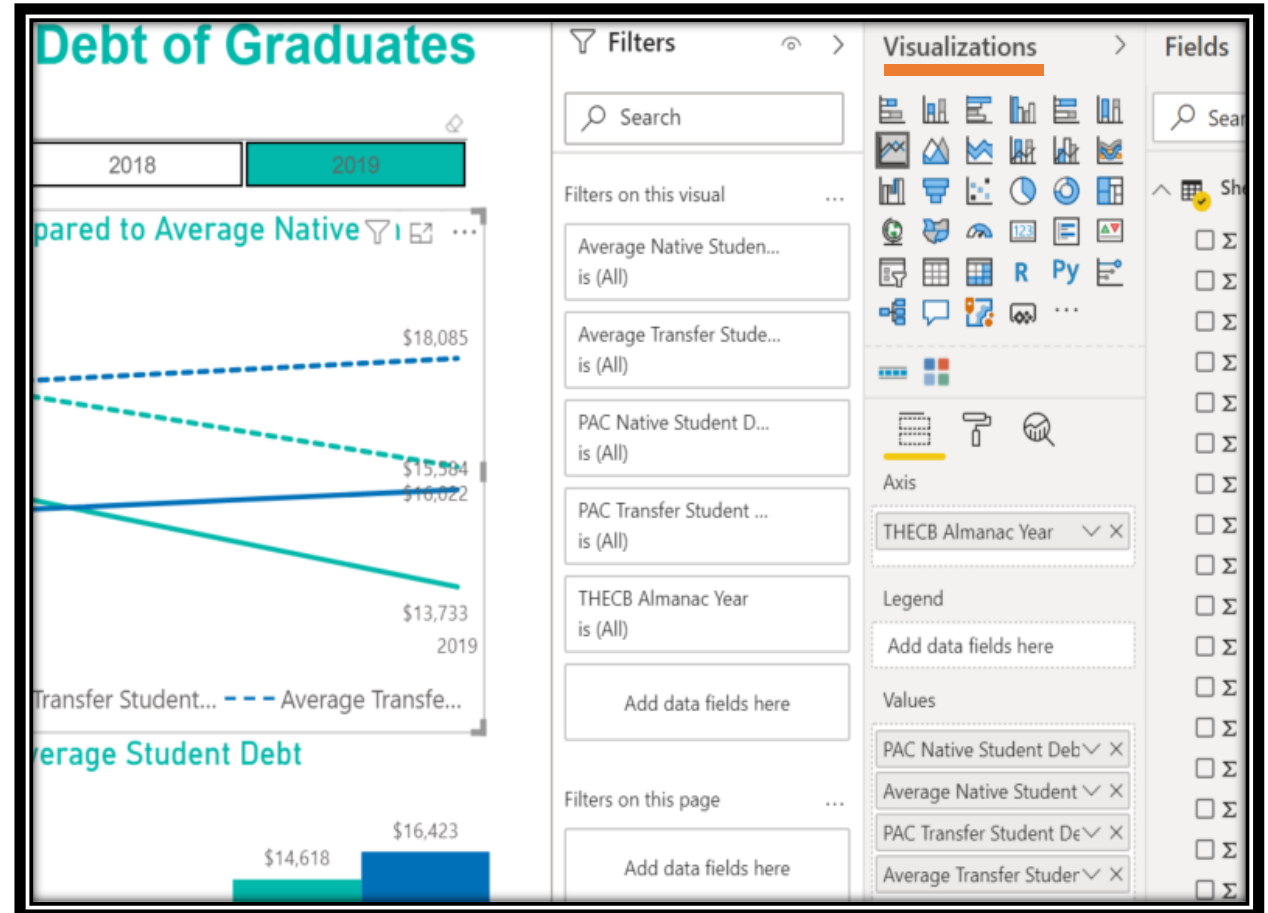
	Column Name	Operator	Value	Output
If	THECB Almanac Y...	equals	ABC 123 2020	Then ABC 123 Fall 2013
Else If	THECB Almanac Y...	equals	ABC 123 2019	Then ABC 123 Fall 2012
Else If	THECB Almanac Y...	equals	ABC 123 2018	Then ABC 123 Fall 2011
Else If	THECB Almanac Y...	equals	ABC 123 2017	Then ABC 123 Fall 2010

Else



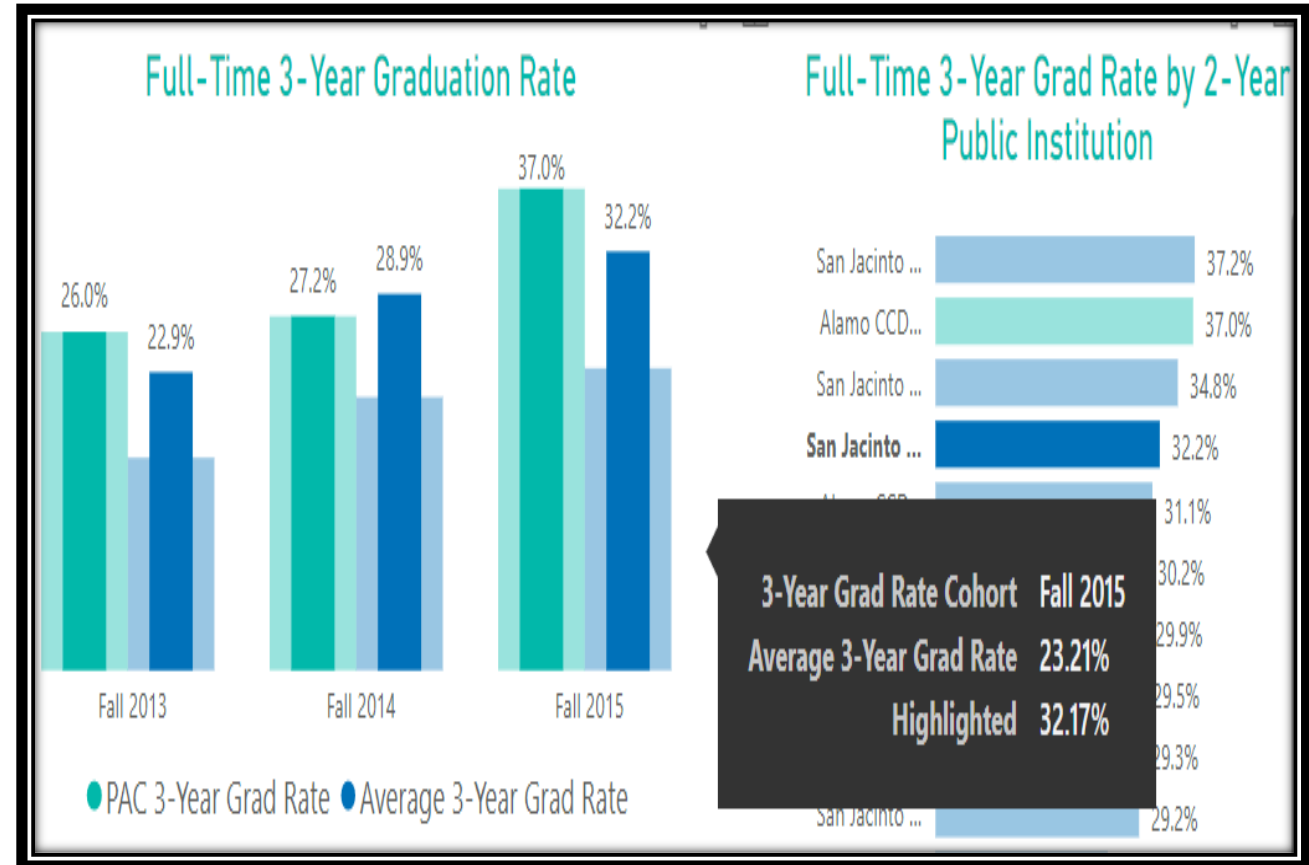
Filters

- There are many different Visualization options for presenting data.
- Filters allow users to disaggregate by multiple indicators.
- Current filters include: Institution, Peer Group size, and Almanac Year



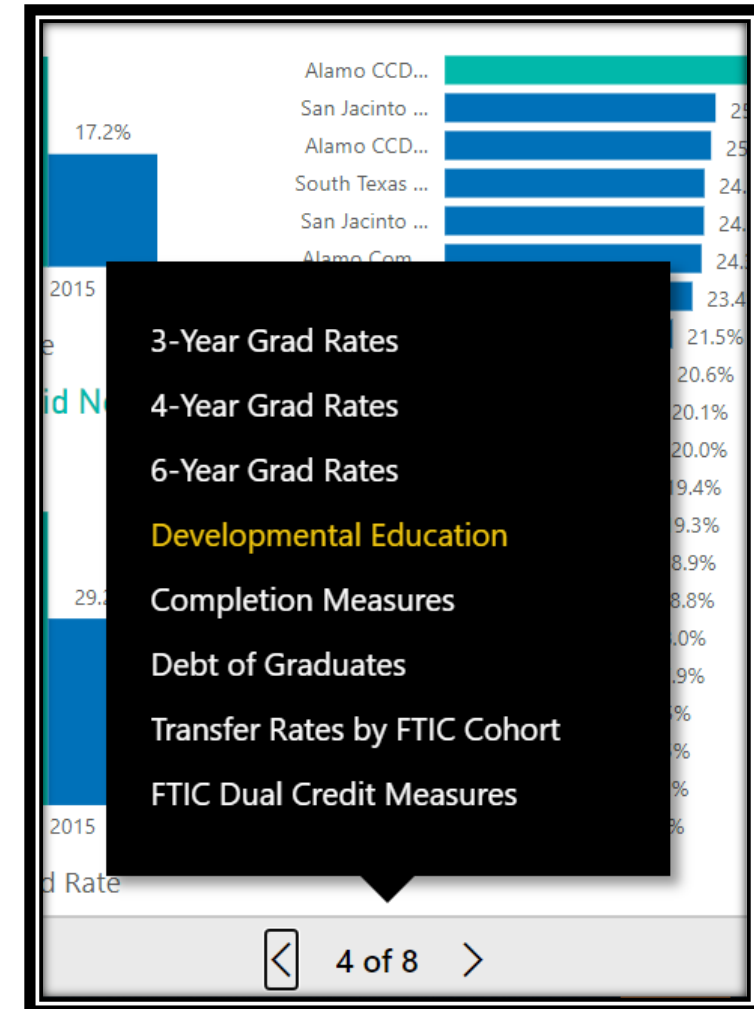
Tooltips

- By clicking on a specific Institution, a highlighted bar will appear to allow a comparison of multiple sets of data at once.
- Tooltips are convenient for users to view their Institution's data in comparison to another, while seeing the average of all 2-Year Public Institutions.



Multiple Sheets

- Having many sheets allow for you to organize each into specific categories.
- By hovering over the sheet numbers at the bottom, this screen will appear to show all of the titles of each sheet.



Creating a Fact Sheet

- Definitions are derived directly from the THECB reports.
- This is included at the bottom of each page to allow for easy access to the user.

Definitions, Data Years, and THECB Data Sources

Graduation Rates:

Public two-year college 3-, 4-, and 6-year rates: The percentage of first-time, credential-seeking undergraduates who graduate within 3, 4, or 6 academic years for two groups: those students who enrolled in their first fall as full-time students (taking 12 or more semester credit hours [SCH]) and those who enrolled part-time (taking fewer than 12 SCH). Both degrees and certificates are included.

Developmental Education:

Developmental education/non-developmental education rates: Percentage of first time, full-time, credential-seeking undergraduates who graduated after three academic years by whether they met or did not meet state readiness standards in one or more areas under the Texas Success Initiative (TSI).



Demonstration



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Thank you.



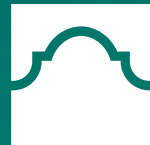
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Q & A



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