Disaggregable Retention Triangles

AN ATTEMPT IN POWER BI

Austin College
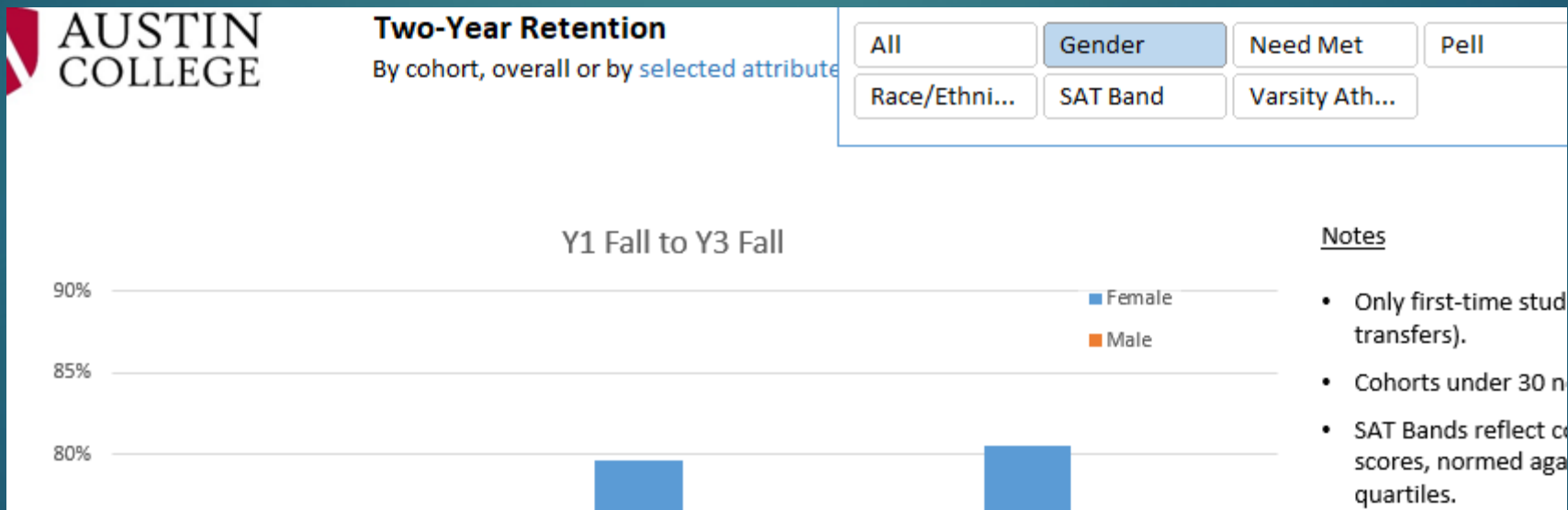
- In Sherman, 50 minutes NNE

- 1100 student liberal arts college

- 11:1 student:faculty ratio

- 175 years old this year!

Retention Charts, 2020

► Excel!   Spreadsheet magic!

Triangles…By Any Other Name?

▶ Customer retention?

▶ Other?

▶ **Note!** Presentation presumes Power BI knowledge. Not that it's authoritative!

▶ **Note Further!** The exhibits demo'd are *internal to IR at AC*

Persistence Triangle:

Term	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
16/FA	91.6%	80.6%	78.3%	75.4%	74.2%	72.8%	73.3%	75.1%	76.2%	72.2%	72.8%	73.0%	73.3%	73.0%	73.0%
17/FA	92.8%	81.6%	76.2%	72.3%	71.7%	72.0%	70.8%	72.9%	72.3%	69.3%	69.6%	69.3%	69.6%		
18/FA	90.8%	78.2%	73.6%	71.0%	69.2%	68.7%	67.8%	68.5%	69.0%	67.1%	67.1%				
19/FA	92.1%	82.0%	77.8%	70.9%	70.1%	68.3%	66.9%	67.2%	66.4%						
20/FA	91.5%	76.2%	73.5%	70.9%	69.7%	68.5%	67.9%								
21/FA	93.0%	84.2%	80.3%	75.0%	73.9%										
Total	**91.9%**	**80.2%**	**76.5%**	**72.4%**	**71.3%**	**69.9%**	**69.2%**	**70.7%**	**70.7%**	**69.3%**	**69.6%**	**71.2%**	**71.5%**	**73.0%**	**73.0%**

Does your institution maintain triangles such as this?

✌ 0

Yes

0%

No

Poll was conducted
interactively, not through this
tool.

0%

Unsure

0%

Other

0%

Live Demo!

Semantic Model Setup

- Students table

  - Has the attributes of interest

  - Also the graduation date!   First non-trivial design decision
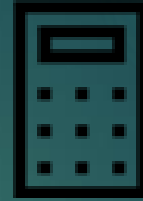
- Retained table

  - Records each student, each term

- **Recode** terms and dates into indices N, encoding the number of terms since beginning.

Non-Trivial Measures

- [Grads So Far]

  - Don't get fooled by blanks!

- [Include Cohort]

  - Cannot look at enrollment data!

  - Condition to return true iff the cohort is old enough to "show" in this context…based on a clock. ⌚

Going Further

- We added more (complex) measures!
  - Term to Term
  - Fall to Fall
  - Annual Persistence
- Looking ahead, Visual Calculations should simplify things…

- Do you do something similar? Different?
- Is this moot given
  - AI?
  - PDP?