

Supporting Academic Departments with Custom Built Dashboards

2020 Analytics Day - June 11th 2020

Zane Kratzer
Strategic Analytics Manager

Caroline Séguin
Business Intelligence Analyst

Supporting departments using Tableau

Historical context:

- Static reports designed to only address a few research questions
 - Limited follow-up analysis or exploration of the data on the requester's end
 - Limited the impact and usability of the data being presented
- Sitting on pockets of data not being fully utilized
 - Course evaluations
 - Student survey results
 - Course-level analysis
- Democratizing access to data across departments
 - Departments would be dependent on other offices to provide data for annual review process
 - Some departments would use whatever source of information they had available



Supporting departments using Tableau: Examples

Tableau as a solution:

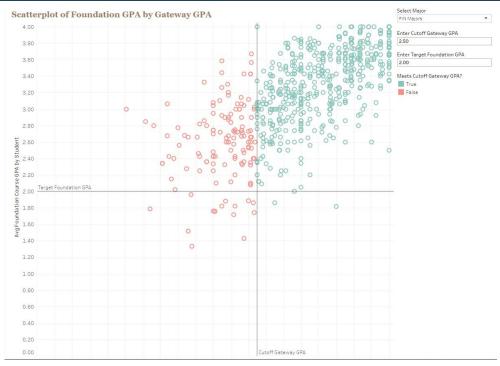
- Creative ways for users to ask their own follow-up questions
- Seeing new patterns in old data
- Bypassing the "data delivery middle man"

Examples: (These are sample dashboards with demonstration data)

- Entry Requirements Dashboard
- Course Evaluations Dashboard
- Department Profile Report



Entry Requirements Dashboard



Course Evaluation Dashboard

	(5) Agree Strongly	(4) AgreeSomewhat	(3) Neutral	(2) DisagreeSomewhat	Disagree Strongly
Instructor presented content in an organized nanner.	0	0	0	0	0
2) The instructor's eaching methods contributed to my enderstanding of the course material.	0	0	0	0	0
3) The instructor was esponsive when I had lifficulties or questions.	0	0	0	0	0
4) The instructor gave me constructive eedback.	0	0	0	0	0
5) The instructor's assignments (i.e. orojects, homeworks, papers, etc.) provided opportunities for participative learning within the course.	0	0	0	0	0
6) The course increased ny knowledge of the subject matter.	0	0	0	0	0

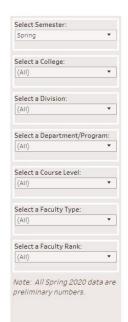
I1) Instructor presented content in an organized manner.												
Response Option	Weight	Freque	псу	Perc	Percent Responses							
Agree Strongly				(5)	12		80.00%					
Agree Somewhat	(4)	3		20.00%								
Neutral	(3)	0		0.00%	T I							
Disagree Somewhat		(2)	0		0.00%	[
Disagree Strongly		(1)	0		0.00%	[
					10		V2	0	25	50	100	
Response Rate	Mean	STD	Mediar	Depa	rtment	Mean	STD	Median		Colleg	е	
15/18 (83.33%)	4.80	0.41	5.00									



Department Profile Report

Instructional Credit Hours by Faculty Rank by Academic Departments

		Academic Year										
Course Level	Faculty Type	Faculty Rank	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-20	2016-2017	2017-2018	2018-2019	2019-2020
Lower Level	Tenured or Tenure Track	Professor	7,864	8,944	8,150	7,089	8,546	7,575	7,906	7,666	8,571	7,829
		Associate Professor	5,125	6,499	5,899	6,393	5,607	5,582	5,565	6,219	5,943	5,515
		Assistant Professor	3,567	2,410	2,806	2,917	2,285	3,216	1,991	2,164	3,562	3,268
	Non-Tenure Track	Professor of Practice	3,989	3,858	2,985	3,299	4,136	3,832	3,057	2,938	4,307	3,346
		Adjunct Faculty	6,864	5,128	4,296	5,270	5,194	6,094	7,167	5,258	6,452	5,359
		Others	3,634	3,906	2,363	2,580	2,780	3,547	3,059	2,140	3,412	2,714
	Total		31,043	30,745	26,499	27,548	28,548	29,846	28,745	26,385	32,247	28,031
Upper Level	Tenured or Tenure Track	Professor	7,189	7,444	8,153	9,189	8,251	8,105	8,312	8,309	9,203	9,699
		Associate Professor	4,067	4,970	5,952	4,446	4,849	5,728	4,592	4,250	4,882	6,321
		Assistant Professor	3,604	4,227	3,527	3,818	2,835	4,394	3,673	3,290	4,586	3,173
	Non-Tenure Track	Professor of Practice	2,721	1,947	2,027	1,645	1,846	1,519	2,575	2,017	1,970	2,401
		Adjunct Faculty	1,742	1,417	1,704	1,207	1,075	2,809	1,921	2,329	2,670	1,709
		Others	876	835	462	502	534	684	130	214	762	523
	Total		20,199	20,840	21,825	20,807	19,390	23,239	21,203	20,409	24,073	23,826
Graduate	Tenured or Tenure Track	Professor	6,710	6,265	5,400	7,363	5,707	5,186	7,933	7,555	4,626	6,942
		Associate Professor	4,309	5,415	4,061	3,878	5,012	5,390	4,185	4,100	4,509	6,296
		Assistant Professor	2,801	2,296	2,628	3,186	3,228	3,120	3,195	3,928	3,830	3,831
	Non-Tenure Track	Professor of Practice	1,920	1,455	1,982	1,739	3,358	1,564	1,590	3,030	2,213	2,864
		Adjunct Faculty	1,866	1,771	2,986	1,966	2,042	2,537	3,002	3,087	1,864	2,980
		Others	305	663	625	279	835	593	695	294	152	996
	Total		17,911	17,865	17,682	18,411	20,182	18,390	20,600	21,994	17,194	23,909
Grand Total			69,153	69,450	66,006	66,766	68,120	71,475	70,548	68,788	73,514	75,766





Getting these tools adopted

- Department profile example:
 - Getting buy-in from Provost Office into our office being the single source of data.
 - Budget Office recognizing our ability to greatly reduce their workload
 - Decision-makers asked to use Tableau Dashboards as primary source of information for completing annual budget requests



Contact us!



Office of Institutional Research & Strategic Analytics

27 Memorial Dr. W. 308 Alumni Memorial Building, Bethlehem PA 18015
610-758-5890
OIR@Lehigh.edu
https://oirsa.lehigh.edu/contact-us