OLAP cubes

Office of Institutional Research

OLAP(Online Analytical Processing) cubes.

The OLAP cubes used in these ARGOS dashboards allow you to view your data in a pre-defined order.

However, you can reorganize your data using the provided "Dimensions" in many different ways.

With OLAP cubes you can very quickly add calculated fields called "Measures", generate charts and download these visuals for presentation purposes.

For these more advanced features, we encourage you to attend an ARGOS training session.

An example is provided below:

Dimension Editor × Available Columns Rows CLASS ø Student Level ø ENTRY ACTION ø Department Ö College ø ø ETHNICITY Ø Major ö RESIDENT 0 Cancel 🗸 Apply

Changing how you view data in an OLAP cube.

Here, you can see the result of clicking on the dimension button on the Headcount Summary OLAP cube.

Drag Department and Major to "Available". Move Entry action before College.

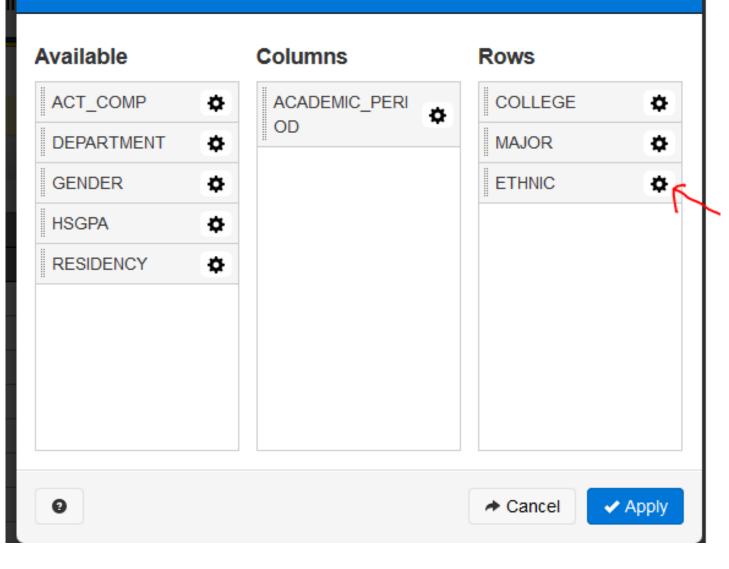
Apply your changes.

		Fall 2017 Headcount 💠 Fall 2016 Headcount 💠 Head		Headcount Difference 💠	Percentage Difference ᅌ	Fall 2017Headcount 💠	Fall 2	
ENTRY_ACTION	: — College ♀	Value 🎿	Value 🔒	Value 🔒	Value 🎿	Value 📶	Valu	
+ College Readmit		26	42	-16	-38.1%	140		
+ Continuing		1847	1429	418	29.3%	9670		
+ HS Concurrent		0	0	0	0.0%	734		
+ New Adult		0	0	0	0.0%	55		
- New First Time		365	377	-12	-3.2%	2092		
	Arts and Letters	26	21	5	23.8%	166		
	Business and Innovation	56	41	15	36.6%	224		
	Education	30	36	-6	-16.7%	55		
	Engineering	10	8	2	25.0%	514		
	Health and Human Service	154	158	-4	-2.5%	251		
	Law	18	26	-8	-30.8%	0		
	Medicine and Life Sciences	43	41	2	4.9%	0		
	NULL	2	0	2	0.0%	0		
	Natural Sciences and Math	6	5	1	20.0%	233		
	Nursing	20	39	-19	-48.7%	250		
	Pharmacy and Pharmaceut	0	2	-2	-100.0%	150		
	University College	0	0	0	0.0%	249	_	
+ New International	+ New International		10	-2	-20.0%	39		

Changing how you view data in an OLAP cube.

Here, you can see the result of clicking on an entry action at the topmost level. This summary is broken out by Entry Action then by College.

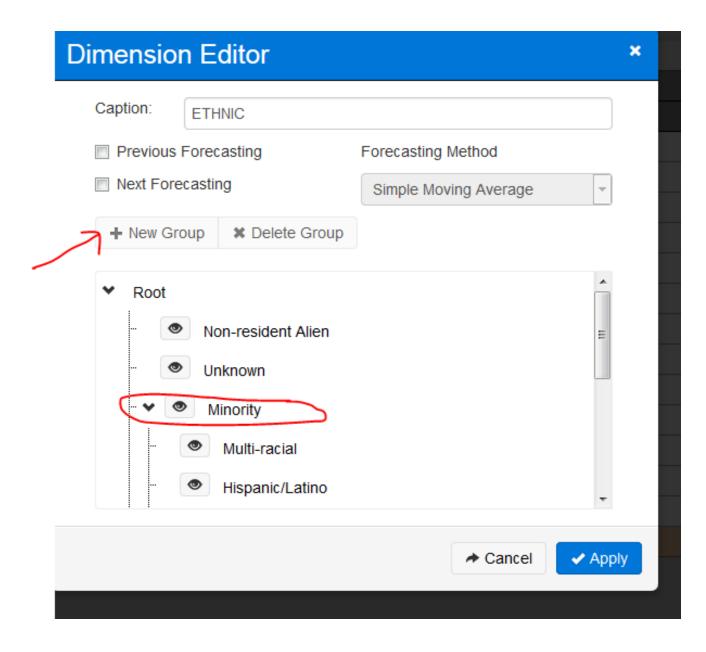
Dimension Editor



Create a **group** from an existing dimension

×

Drag ethnicity over to your Rows and then click on the gear next to Ethnic in your dimension editor.



Create a **group** from an existing dimension

With Root highlighted, click on New Group.

You can then edit the group and call this Minority.

Drag all the ethnicities that you want to include under minorities to this new group .

Dimension Editor		×
Caption: ETHNIC		
Previous Forecasting Next Forecasting	Forecasting Method Simple Moving Average	-
+ New Group X Delete Group	omple woving / verage	
Asian/Pacific Island Hawaiian or Pacific		^
African American American Indian Majority		Е
I White	Cancel	- Apply

Create a **group** from an existing dimension

With Root highlighted, click on New Group.

Similarly, create another Group "Majority" and drag all majority ethnicities to this group.

Apply your changes. And view the results

View in OLAP with a custom group

ACADEMIC_PERIOD				📶 Fall 2015			📠 Fall 2016			
COLLEGE		- ETHNIC	COHORT ᅌ	RETENTION ᅌ	Rate ᅌ	COHORT ᅌ	RETENTION ᅌ	Rate ᅌ		
ULLEGE	DLLEGE 🗢 MAJO		ETHNIC 🗘	Value 🎿	Value 🔒	Value 📠	Value 📠	Value 🔟	Value 🔒	
- Health & Human Services			397	282	71.0%	359	273	76.0%		
		- Athletic Training		49	35	71.4%	33	19	57.6%	
			+ Minority	14	8	57.1%	10	4	40.0%	
			+ Majority	35	27	77.1%	21	15	71.4%	
			Non-resident Alien	0	0	0.0%	1	0	0.0%	
			Unknown	0	0	0.0%	1	0	0.0%	
		- Criminal Justice	Criminal Justice		53	62.4%	80	56	70.0%	
			+ Majority	53	39	73.6%	47	38	80.9%	
			+ Minority	31	13	41.9%	29	16	55.2%	
			Unknown	1	1	100.0%	4	2	50.0%	
- Exercise Science			101	82	81.2%	99	87	87.9%		
			+ Minority	16	13	81.3%	13	10	76.9%	
			+ Majority	84	69	82.1%	78	70	89.7%	
			Non-resident Alien	0	0	0.0%	2	1	50.0%	
			Unknown	1	0	0.0%	6	6	100.0%	
- Health (- Health Care Administ	ration	6	6	100.0%	11	8	72.7%	