

Analytics Open Labs

October 7, 2016

Sign In

Find Chris Thuringer and tell him your link blue id!

We are now using Tagger to track attendance at Open Labs.

Slide decks will be available on our IRAA website after each session.

Open Labs schedule

9:00 AM - This will remain beginner hour presentation and one-on-one analyst sessions

9:30 AM - We will have a presentation targeted at 'consumers' that covers data available on the IRAA website and Tableau Server. You all are more than welcome if it is a topic you are interested in. Depending on turnout, we may be able to keep the rooms separated during the 9:30 session so conversation/analyst sessions can continue.

10:00 AM - We will have a presentation targeted at 'creators' that covers a variety of topics. I am hoping that these presentations last 20 to 30 minutes to allow time for questions on other topics and collaboration after.

Presentations will be announced 4 to 6 weeks out. This is to allow for flexibility in what is covered.

<http://www.uky.edu/iraa/hana-and-tableau-training>

Fall 2016 Analytics Open Labs

10/7/16

9:30 AM - Students in my college: How do I count them (Mary Kathryn and Craig)

10:00 AM - IRAA development cycle: What is in STUDENT_TEST these days (Mary Kathryn and Craig)

10/21/16

9:30 AM – Primary Instructors: courses taught, student credit hours, and other metrics (IRAA Team)

10:00 AM – Data governance / usage guidelines; HANA and Tableau permissions; data security issues

11/4/16

9:30 AM – Institutional Enrollment Dashboard

10:00 AM – Data Quality - Who do I call when I have questions about data quality?

Training Page <http://www.uky.edu/iraa/hana-and-tableau-training>

Past Open Lab presentations <http://www.uky.edu/iraa/open-labs-presentations>

Send suggestions for additional topics to analytics@uky.edu

Tableau v10.0

Tableau Server is now upgraded to v10.0.

It is **recommended** that Tableau Desktop users upgrade to v10.0.

- Older versions of Tableau Desktop:
 - **CAN** publish to Tableau Server
 - **CAN NOT** edit workbooks created or modified in Tableau Desktop v10.0

To upgrade, just download install the latest version of Tableau Desktop from www.tableau.com or <http://www.tableau.com/support/esdalt>. It should be quick and painless!

Tableau Server & Desktop v10.0 - New Features

Most users will only notice superficial updates on both Server and Desktop - new fonts, stylings, etc.

Mac users can connect directly to HANA! Alex Dixon has created step-by-step instructions, available on IRAA website: <http://www.uky.edu/iraa/resources-support>

Students in my College, Department, Major

Specializations Headcount in Student Reports

Specializations Headcount Detail in Student Reports Detail

This dashboard shows the number of enrolled students in each Specialization (major, minor, option, specialty, or subspecialty).

<https://analytics.uky.edu/#/workbooks/3184/views>

<https://analytics.uky.edu/#/workbooks/4247/views>

Specializations Headcount

Academic Term: Fall 2016 | Effective Time Point: [Census Date / End of Term] | Total Enrollment: 31,017

This dashboard shows the number of enrolled students in each Specialization (major, minor, option, specialty, or subspecialty). The **Effective Time Point** filter allows you to choose whether to look on the term Census Date (approx. 1 week after start of classes) or at the End of Term (last day of final term for previous terms, today for the current term). All data represent current data in SAP and therefore may not exactly match numbers reported to CPE or other regulatory agencies - but that's the point! All counts are of District Students. For instance, a student with two majors in the same College will be counted in both majors, but only once for the College total.

Specialization College	Specialization Department	Specialization Name	Specialization Level	Specialization Priority	Degree Program Type	Qualification Level	Degree	Degree Priority	Number of Students	
[College]	[Department]	[Specialization]	Major	Primary	Undergraduate	Baccalaureate	BS in Agricultural Economics	Primary	243	
								Secondary	3	
						Graduate	Doctorate-Graduate	Doctor of Philosophy	Primary	26
							Master's	Primary	21	
								Secondary	1	
								Post Doctoral Student	Primary	1
				Secondary						
				Minor	Primary	Undergraduate	Baccalaureate	Bachelor of Business Admin.	Primary	2
							Bachelor of Science in Accou.	Primary	1	
							Bachelor of Science in Animal	Primary	1	
							BS in Career and Technical E.	Primary	1	
							BS in Community and Leader	Primary	1	
						BS in Equine Science and Ma.	Primary	1		
						Bachelor of Arts	Primary	1		
						Bachelor of Business Admin.	Primary	1		
						Bachelor of Science in Animal	Primary	3		
						Bachelor of Science in Busine.	Primary	1		
						BS in Career and Technical E.	Primary	1		
						BS in Community and Leader	Primary	1		
						BS in Equine Science and Ma.	Primary	17		
						BS in Equine Science and Ma.	Primary	2		

0K 1K 2K
Number of Students

This worksheet counts enrolled students using two hierarchies:
- Specialization College > Specialization Department > Specialization > Specialization Level > Specialization Priority
- Degree Type > Qualification Level > Degree > Degree Priority

What does Specialization mean?

Specialization Levels

- Major
- Minor
- Option
- Specialty

Specializations Headcount
Specializations Demographics
Specializations Timeseries
Workbook Overview

Specializations Headcount

Specialization College (All)

Specialization Department (All)

Specialization Name (All)

Specialization Level (All)

Specialization Priority (All)

Degree Program Type (All)

Qualification Level (All)

Degree Priority (All)

Effective Time Point

Fall 2016

-

Census Date

End of Term

Total Enrollment

31,017

Specialization College (All)

Specialization Department (All)

Specialization Level (All)

Specialization Priority (All)

Degree Program Type (All)

Qualification Level (All)

Degree Priority (All)

This dashboard shows the number of enrolled students in each Specialization (major, minor, option, specialty, or subspecialty). The **Effective Time Point** filter allows you to choose whether to look on the term Census Date (approx. 1 week after start of classes) or at the End of Term (last day of the term for previous terms, today for the current term, first day of the term for future terms). All data represent current data in SAP and therefore may not exactly match numbers reported to CPE or other regulatory agencies - but that's the point!

All counts are of Distinct Students. For instance, a student with two majors in the same College will be counted in both majors, but only once for the College total.

Specialization College	Specialization Department	Specialization Level	Specialization Priority	Degree Program Type	Qualification Level	Degree	Degree Priority	Enrollment
Ag, Food and Environment	Ag Con Leaders	-	Primary	Undergraduate	Baccalaureate	Bachelor of Arts	Primary	3
			Secondary	Undergraduate	Baccalaureate	Bachelor of Arts	Primary	1
Agr Economics	Agrbusiness Management & Food Mktg	Option	Primary	Undergraduate	Baccalaureate	BS in Agricultural Economics	Primary	188
			Secondary	Undergraduate	Baccalaureate	BS in Equine Science and Ma.	Secondary	2
Agr Economics	Agricultural Economics	Major	Primary	Undergraduate	Baccalaureate	BS in Agricultural Economics	Primary	243
			Secondary	Undergraduate	Baccalaureate	BS in Agricultural Economics	Secondary	3
				Graduate	Doctorate-Graduate	Doctor of Philosophy	Primary	28
						Master of Science	Primary	21
						Post Doctoral Student	Secondary	1
						Primary	1	
			Secondary	Undergraduate	Baccalaureate	Bachelor of Business Administr.	Primary	2
						Primary	1	
						Bachelor of Science in Animal.	Primary	1
						Primary	1	
						BS in Career and Technical E.	Primary	1
						Primary	1	
						BS in Community and Leader.	Primary	1
						Primary	1	
			Minor	Undergraduate	Baccalaureate	BS in Equine Science and Ma.	Primary	1
						Primary	1	
						Bachelor of Arts	Primary	1
						Primary	1	

What about Certificates?

Qualification Levels

Baccalaureate

Doctorate-Graduate

Doctorate - Professional

Graduate Certificate

Master's

Post Master's Graduate Cert

Specialist

Undergraduate Certificate

Specializations Headcount

Specialization College	Specialization Department		
(All)	(All)		
Specialization Name	Specialization Level	Specialization Priority	
(All)	(All)	(All)	
Degree Program Type	Qualification Level	Degree	Degree Priority
(All)	(All)	(All)	(All)

Specialization College	Specialization Level	Specialization Priority
Ag, Food and Environment	Minor	Primary
		Secondary
Management & Option		Primary
Economics	Major	Primary

(All)
 Baccalaureate
 Doctorate-Graduate
 Doctorate-Professional
 Graduate Certificate
 Master's
 Post Master's Graduate Cert.
 Specialist
 Undergraduate Certificate
 -

Effective Time Point

The Effective Time Point filter allows you to choose whether to look on the term **Census Date** (approx. 1 week after start of classes) or

at the **End of Term** (last day of the term for previous terms, today for the current term, first day of the term for future terms).

Academic Term ▼ Fall 2016 ▼	Effective Time Point <input type="radio"/> - <input checked="" type="radio"/> Census Date <input type="radio"/> End of Term	Total Enrollment 31,017
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Total Enrollment

All counts are of Distinct Students. For instance, a student with two majors in the same College will be counted in both majors, but only once for the College total.

Academic Term ▼ Fall 2016 ▼	Effective Time Point <input type="radio"/> - <input checked="" type="radio"/> Census Date <input type="radio"/> End of Term	Total Enrollment 31,017
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Effective Time Point and Total Enrollment

Specializations Headcount | Specializations Demographics | Specializations Timeseries | Workbook Overview

Specializations Headcount

Academic Term: Fall 2016

Effective Time Point: - Census Date End of Term

Total Enrollment: 275

This dashboard shows the number of enrolled students in each Specialization (major, minor, option, specialty, or subspecialty). The **Effective Time Point** filter allows you to choose whether to look on the term Census Date (approx. 1 week after start of classes) or at the End of Term (last day of the term for previous terms, today for the current term, first day of the term for future terms). All data represent current data in SAP and therefore may not exactly match numbers reported to CPE or other regulatory agencies - but that's the point!

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Specializations Headcount | Specializations Demographics | Specializations Timeseries | Workbook Overview

Specializations Headcount

Academic Term: Fall 2016

Effective Time Point: - Census Date End of Term

Total Enrollment: 266

Specialization College: Engineering | Specialization Department: Computer Science

Specialization Name: Computer Science | Specialization Level: (All) | Specialization Priority: (All)

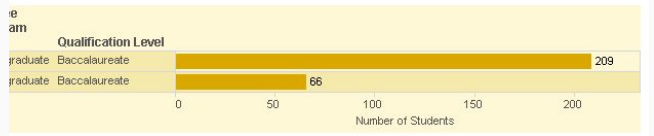
Degree Program Type: Undergraduate | Qualification Level: Baccalaureate | Degree: (All) | Degree Priority: (All)

Specialization College	Specialization Department	Specialization	Specialization Level	Degree Program Type	Qualification Level	Number of Students
Engineering	Computer Science	Computer Science	Major	Undergraduate	Baccalaureate	206
		Computer Science	Minor	Undergraduate	Baccalaureate	60

This dashboard shows the number of enrolled students in each Specialization (major, minor, option, specialty, or subspecialty). The **Effective Time Point** filter allows you to choose whether to look on the term Census Date (approx. 1 week after start of classes) or at the End of Term (last day of the term for previous terms, today for the current term, first day of the term for future terms). All data represent current data in SAP and therefore may not exactly match numbers reported to CPE or other regulatory agencies - but that's the point!

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This worksheet counts enrolled students using two hierarchies:
 - Specialization College > Specialization Department > Specialization > Specialization Level > Specialization Priority
 - Degree Type > Qualification Level > Degree > Degree Priority



<https://analytics.uky.edu/#/views/SpecializationsHeadcountDetail/SpecializationsHeadcount?iid=3>

Hierarchies

This worksheet counts enrolled students using two hierarchies:

Specialization College > Specialization Department > Specialization >
Specialization Level > Specialization Priority

Degree Type > Qualification Level > Degree > Degree Priority

<https://analytics.uky.edu/#/views/SpecializationsHeadcountDetail/SpecializationsHeadcount?.iid=3>

Hierarchies

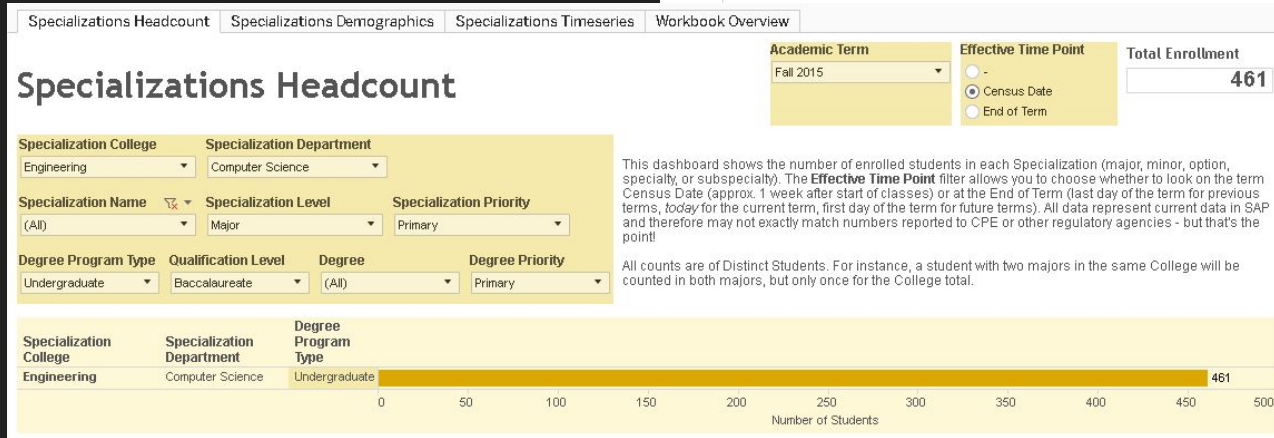
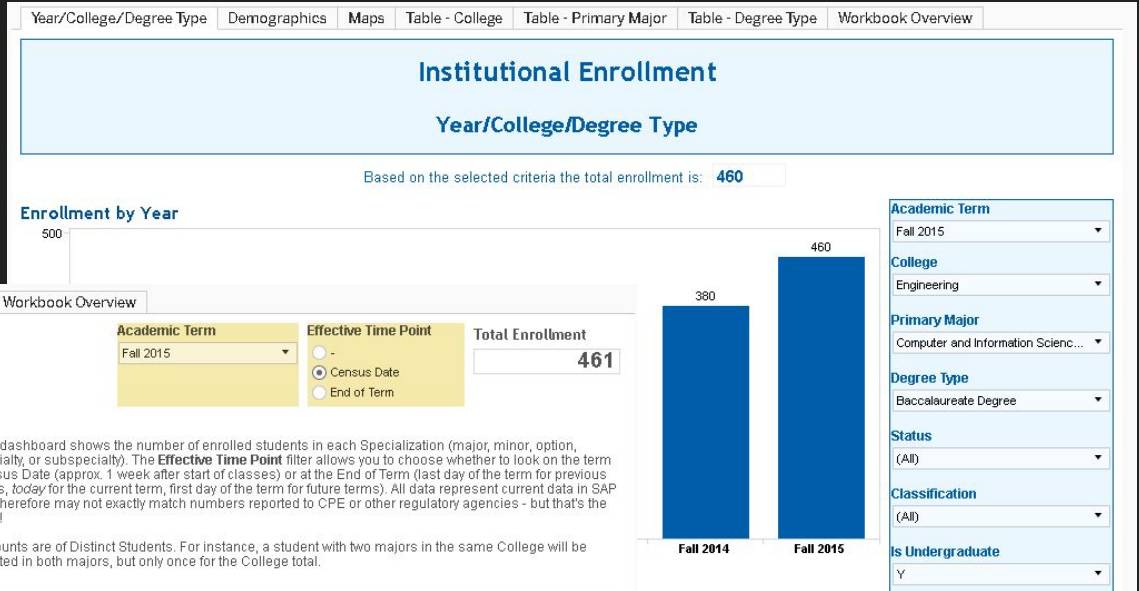
The bar is the distinct count of students.

Specialization College	Specialization Department	Specialization	Specialization Level	Specialization Priority	Degree Program Type	Qualification Level	Degree			
Engineering	Computer Science	Computer Science	Major	Primary	Undergraduate	Baccalaureate	BS in Computer Engineering	1		
							BS in Computer Science	195		
							Bachelor of Arts	1		
				Bachelor of Science	2					
				Bachelor of Science in Electric..	2					
				BS in Agricultural Biotechnolo..	1					
			Minor	Primary	Undergraduate	Baccalaureate	BS in Computer Engineering	7		
							Bachelor of Arts	8		
							Bachelor of Business Administr..	7		
				Bachelor of Science	17					
				Bachelor of Science in Accou..	4					
				Bachelor of Science in Electric..	7					
			Secondary	Undergraduate	Baccalaureate	BS in Agricultural Biotechnolo..	2			
						BS in Chemical Engineering	2			
						BS in Computer Engineering	5			
				BS in Mechanical Engineering	2					
				Secondary	Undergraduate	Baccalaureate	Bachelor of Science	4		
							Bachelor of Science in Educat..	1		
Bachelor of Science in Electric..	3									
BS in Agricultural Biotechnolo..	1									
								0	100	200

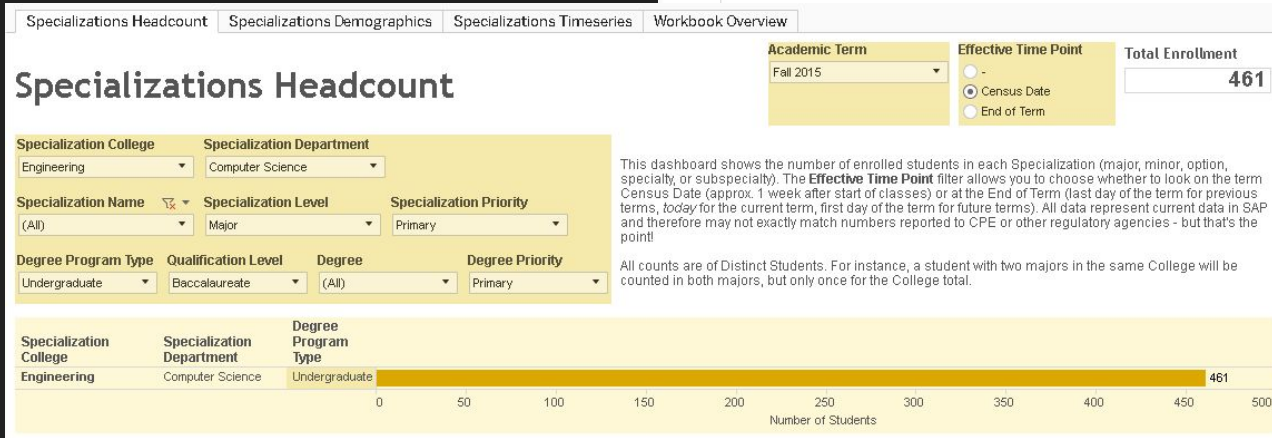
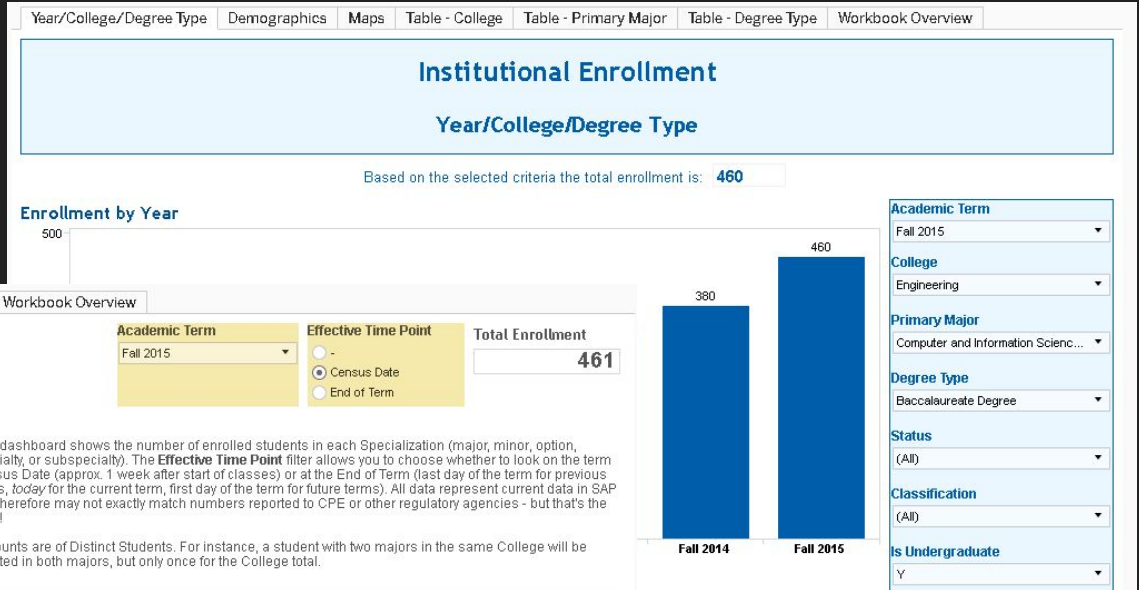
Specialization College	Specialization Department	Degree Program Type	
Engineering	Computer Science	Undergraduate	275
			0 20 40 60 80 100 120 140 160 180 200 220 240 260 280
			Number of Students

This worksheet counts enrolled students using two hierchacies:
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Is Specializations Headcount on the IRAA website?



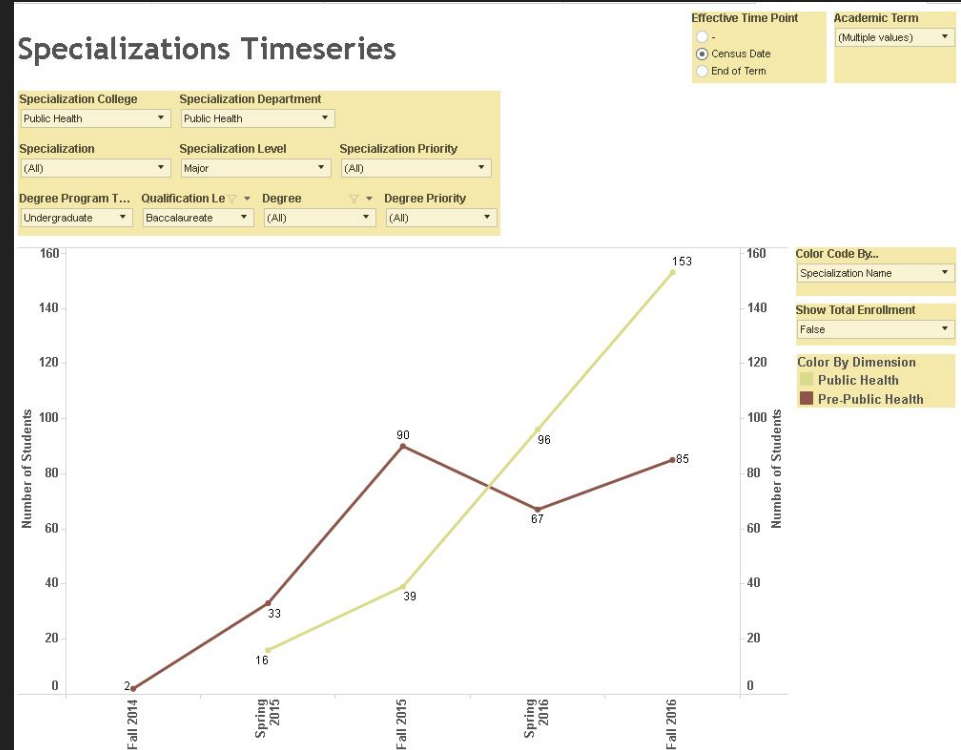
How does this relate to Institutional Enrollment?



Time Series

Change color code to
Specialization Name

Look at growth or decline
By College, Specialization,
Department



Analytics Development Cycle

Analytics Development Cycle - how do we use STUDENT_TEST in our development cycle.

Recognize the need for a new data model.

First draft...Communicate it out to others for review.

What makes a good data model...lots of iterations...The Analytics Team does not know every corner case to validate.

Communicate about the new student or student detail version so users can swap their data sources.

Delete out of Student Test.

Student Reports Beta in Tableau Server

What if I want users in my College who don't have Tableau Desktop to validate the data in STUDENT_TEST?

- Download the data to excel?
- Create a PDF?
- Publish to Tableau Reader
- Publish to Analytics Community of Practice project folder
- Work with Analytics Team to publish the workbook to Tableau Server in the Student Reports Beta project folder

An Incomplete List of Incomplete Data Models

Student Test contains lots false starts, unfinished projects, one-time-use tables, and other assorted junk

But there's some treasure to be found if you know where to look...

Keep in mind that data in `STUDENT_TEST` can be on views (extra steps to ensure performance have not been taken yet)

Keep in mind that the data may be a table that is not updated on a regular basis

ADVISOR_STATS_PER_TERM

- The prototype of our new Advisor data model.
 - Actively being developed!
- All advisors (primary, secondary, etc.) for all enrolled students
 - Every student will have ONE primary advisor per term
- Advising lists will exactly match the Advising Hub
 - Flags to indicate current date data

CLASS_SECTION_ATTRIBUTES

- Prototype of new event planning data models
 - Under active development
 - Being vetted by Dave Timmony and Event Planning staff
- Single source for all data related to Classes and Sections
 - Class College, Section Title, Primary Instructor, etc.
- Will eventually replace COURSE_DETAILS, about half the fields in ENROLLMENT, populate CPE submissions and more!

ENROLLED_STUDENTS_INSTITUTIONAL_REGULATORY_PRELIMINAY_CPE_IPEDS

- We moved it to STUDENT last week!
 - ENROLLED_STUDENTS_CPE_IPEDS
- The basis for all Regulatory Reporting, official metrics, and hopefully soon all student data!
- New dashboard is actively under development
 - On agenda for 11/4 Open Lab

CAMPUS_HOUSING

- Housing data for all on-campus housing each term
 - Census date snapshot
 - Includes LLP cohorts
- Flat files shipped from Housing Office (Justin Blevins)
- Temporary solution until live data feed from Starrez is developed
 - Currently working with Housing (Melissa Pero) to get live data feed working in HANA

In which Craig eats his liver...

MAJOR_CHANGES

- The basis of the Major Changes dashboard
- At some point this will need to be moved to Student
 - But that today is not that day...

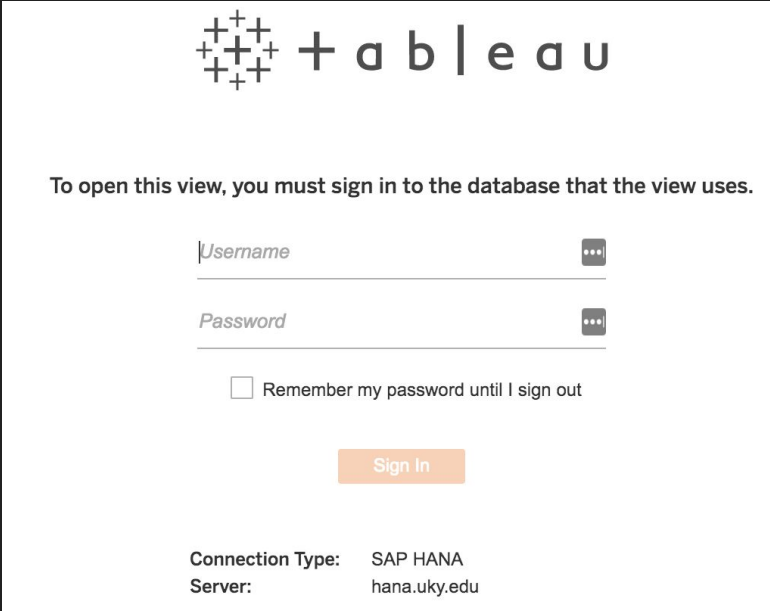
GRADUATE_STUDENT_COHORTS

- The basis of the Graduate Student Graduation rates we started working on earlier in the year.
- This will have to be prioritized again before the end of the year.

Tableau Server v10.0 - Workbook Connection Issues

A lot of workbooks have been getting this error/login screen.

Alex Dixon has the solution!



The image shows a Tableau login screen with the following elements:

- Tableau logo (a cluster of plus signs) and the word "tableau" in a sans-serif font.
- A message: "To open this view, you must sign in to the database that the view uses."
- A "Username" input field with a clear button (three dots in a square).
- A "Password" input field with a clear button (three dots in a square).
- A checkbox labeled "Remember my password until I sign out".
- An orange "Sign in" button.
- Connection details at the bottom: "Connection Type: SAP HANA" and "Server: hana.uky.edu".