### **Remote Meetings Best Practices**

- Turn off your video function
- Please go on **Mute** unless you are speaking
- Please enter your questions in the chat function. When your question is being answered, you can go off Mute to ask follow-up questions
- Please do not use the chat function for off-topic discussions

## DATA WAREHOUSE STUDENT DATA USER GROUP OCTOBER 14, 2021

STUDENT DATA USER GROUP – OCTOBER 14, 2021

### Agenda

- An overview of the various environments
- Pointing to SIT and how that impacts people using DWHE
- Recent Changes in Development Pennant Student collection
- Financial Aid update
- Reporting on Course data in production WHSE
- Getting ready for Section data coming to prod soon
- Announcements and wrap-up

## Over the coming weeks and months... for Student Records \*, we will be working in multiple places, concurrently:

Name/description	Database	Schemas	universes
PRODUCTION Legacy Student Data Collection	WHSE	DWADMIN, DWST	STDTCANQ, STDTTERM
<b>DEVELOPMENT Pennant data collection</b> Source is a non-production Banner region. More about that in the next slide	DWHE	DWNGSS, DWNGSS_PS	Pennant Student Records - DWHE
<b>PRODUCTION Pennant data collection</b> – Source is production Banner. In Sept. 2021, we started with Course data tables.	WHSE	DWNGSS, DWNGSS_PS	Pennant Student Records

\* note: this slide is specifically about Student Records data, but the same environments apply to Financial Aid

### New Source for the Development Pennant data collections

- Coming this week the source for the development warehouse data will change from the project's Functional Object Testing to the System Integration Testing (SIT) environment
- The data will still be in the development warehouse, only the underlying source will change
- The data in SIT is more complete especially in terms of Degree Term, Outcomes, Major, and Minor data
- During SIT testing later this fall, a complete test of registration processes will run – meaning that there will be more current term registrations available for querying

### Recent Changes in Development Pennant Student data collection

ST\_DEGREE\_TERM: New and renamed columns; See Appendix for details.

ST\_DEGREE\_PURSUAL: New, renamed, and removed columns; See Appendix for details.

ALLOWABLE\_GRADES: New table

- Grades that an Instructor can use on course section grading sheets for any TERM, LEVEL, and GRADE\_MODE.
- Sample usage: Join from ST\_ENROLLMENT to ALLOWABLE\_GRADES on term, primary student level, and grade mode.

### Recent Changes in Development Pennant Student data collection

New columns in the CRSE\_SECTION table: FINAL\_GRADE\_IND PART\_OF\_TERM\_DESC SPECIAL\_APPROVAL\_DESC SYLLABUS URL

And COURSE\_ID was added to the following tables: CRSE\_SECT\_ATTTRIBUTE CRSE\_SECT\_INSTRUCTOR CRSE\_SECT\_MEETING CRSE\_SECT\_OVERRIDE CRSE\_SECT\_SCHED\_WITH

### Financial Aid update

The Pennant Aid (DWNGSS\_PF) tables in production have been live since October 1<sup>st</sup>.

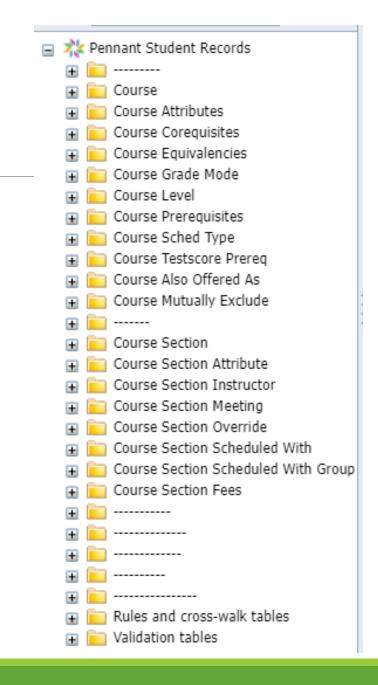
- Main source of data is from Banner.
  - Being used for aid applicants for the next aid year (2022-2023)
- SAM and current Financial Aid data warehouse tables (DWSFA) are main source of data for current aid year.

Eform to request access to the Pennant Aid information has been available since October 4<sup>th</sup>.

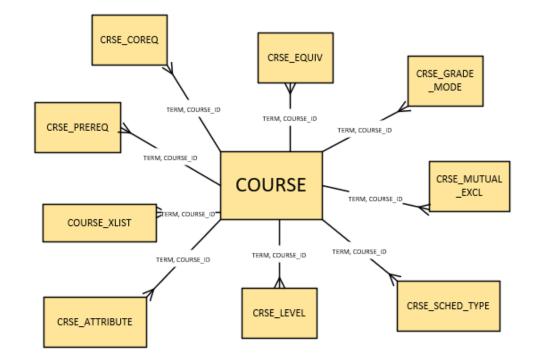
### Now in Production: Course and Course Section

In the production warehouse and in the production universe *Pennant Student Records* you now can see the tables and views for Course and Course Section (along with the rules and validation tables and views)

All other tables and views are only available in the development warehouse and in the development universe: *Pennant Student Records - DWHE* 



### The COURSE table, and related tables



Descriptions of the tables and what they contain: <u>https://www.isc.upenn.edu/pennant-student-records</u>

# Course records are term-effective in the source (Banner), but are stored term-by-term in the warehouse

In the legacy Course\_Inventory table, we had to look at the start/end Terms. In Pennant Student Records, we will have one row per term.

This makes it easier to join between Course tables, and to join to the Course Section tables, using Term.

#### To get just one row per Course, always specify the Term

in your queries. Otherwise, you'll get multiple rows back, as in this example:

Course ID (Crse)	Effective Term (Crse)	Term (Crse)	Title (Crse)
AAMW5020	202220	202220	Mesopotamia 2200-1600bce
AAMW5020	202220	202230	Mesopotamia 2200-1600bce
AAMW5020	202220	202310	Mesopotamia 2200-1600bce
AAMW5020	202220	202320	Mesopotamia 2200-1600bce
AAMW5230	202220	202220	Narrative in Ancient Art
AAMW5230	202220	202230	Narrative in Ancient Art
AAMW5230	202220	202310	Narrative in Ancient Art
AAMW5230	202320	202320	Comparative Narratives in Art

# How the COURSE table relates to other tables with course information

"One-to-Many"

For example: In a specified term, for on specified course, there can be multiple available grade modes:

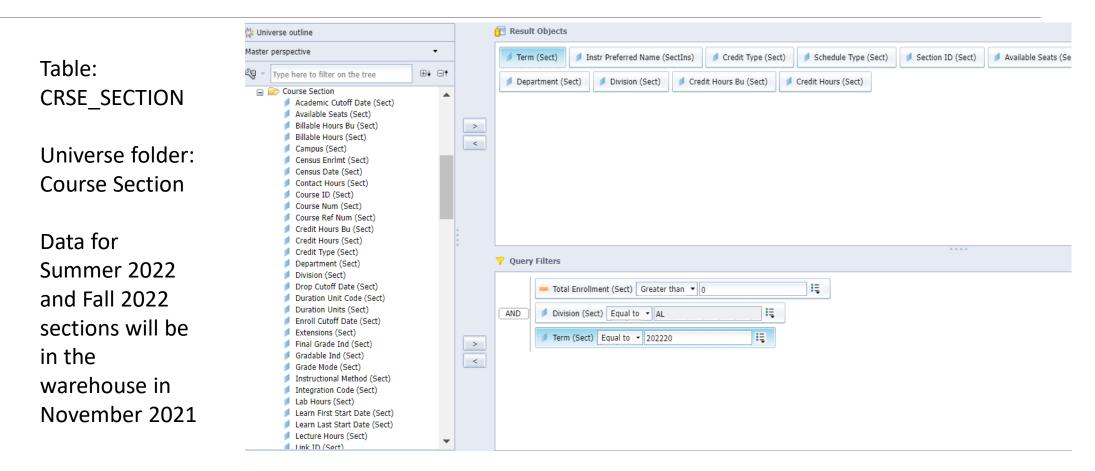
			CRSE_GRADE_MODE			
			Course ID	Term	Grade Mode	Grade Mode Description
COUR	SF		AAMW5020	202030	G	Graduate/Professional
Course ID	Term		AAMW5020	202030	Р	Pass/Fail
AAMW5020	202030	<u> </u>	AAMW5020	202030	S	Standard Letter Grade
AAWW 5020	202030		AAMW5020	202030	Т	Multiterm Course
			AAMW5020	202030	U	Satisfactory/Unsatisfactory
			AAMW5020	202030	W	Wharton Grad

### Recap: reporting on Course data

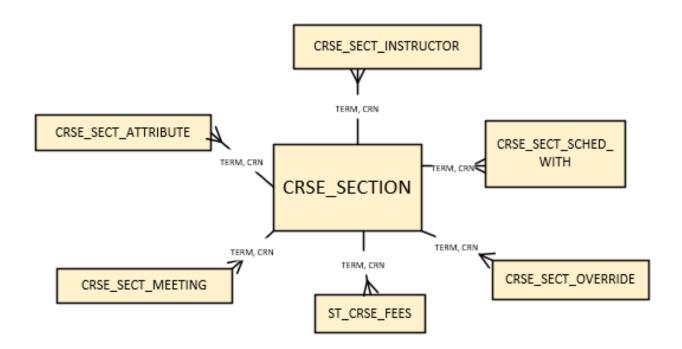
#### Main points covered today:

- The Course (aka catalog) data are now in the production warehouse. (for Webi users: *Pennant Student Records* universe)
- Course data are term-effective in Banner. To facilitate warehouse reporting, we are storing the Course data term-by-term.
- There are numerous tables that join to COURSE on Course\_ID and Term.
- The relationship between COURSE and the other tables is "one-to-many".

### **Coming Soon: Course Section data**



### The CRSE\_SECTION table, and related tables



Descriptions of the tables and what they contain: <u>https://www.isc.upenn.edu/pennant-student-records</u>

### Some new vocabulary for Course Sections

**CRN vs Section ID** 

The CRN, or Course Reference Number, is Banner's internal identifier for a course section. Section ID is something we use in the warehouse to uniquely identify a course section. It is the concatenation of the Subject area, the Course number, and the Section number. EITHER ONE can be used to uniquely identify a course section in the warehouse Pennant Student Records data collection.

#### Scheduled With

In the legacy system, we referred to course sections that were offered at the same time in the same location taught by the same instructors as "cross-listed"

In Pennant, these are now referred to as sections that are "scheduled with" each other.

We will have a more detailed look at course sections at an upcoming SDUG meeting.

### Recap: reporting on Course Section data

#### Main points covered today:

- The Course Section tables are now in the production warehouse (*Pennant Student Records* universe) but *not section data*. Expect to start seeing section data in November 2021, for sections scheduled for Summer 2022 and Fall 2022.
- The relationship between CRSE\_SECTION and the other tables is "one-to-many"; the universe joins are on CRN and Term.
- We have some new terminology and new ways of looking at section data.
- You can explore the new tables with test data <u>now</u> in the development warehouse (*Pennant Student Records–DWHE* universe)

### Announcements

- The University Registrar's census date this term is Monday, October 18.
- SRS Census data will be available in the warehouse on Tuesday, October 19.

### Wrap-up

Questions/comments

• Feedback/ Suggestions for future meetings?

Follow-up questions/comments: <u>da-staff@isc.upenn.edu</u>
Discussions about student data: <u>student-wh@lists.upenn.edu</u>

# Appendix: Changes to specified tables in the Development Pennant Student Records data collection

#### Changes to ST\_DEGREE\_TERM

renamed TERM_GPA_CREDIT	to	TERM_GPA_HOURS
renamed TERM_CUMULATIVE_EARNED_CREDIT	to	TERM_CUM_EARNED_CREDIT
renamed TERM_CUMULATIVE_QUALITY_POINTS	to	TERM_CUM_QUALITY_POINTS
renamed TERM_CUMULATIVE_GPA_CREDIT	to	TERM_CUM_GPA_HOURS
Added these columns:		
TERM_ATTEMPTED_CREDIT_BU		
TERM_EARNED_CREDIT_BU		
TERM_QUALITY_POINTS_BU		
TERM_GPA_HOURS_BU		
TERM_CUM_EARNED_CREDIT_BU		
TERM_CUM_QUALITY_POINTS_BU		
TERM_CUM_GPA_HOURS_BU		

#### Appendix (continued): Changes to specified tables in the Development Pennant Student Records data collection

#### Changes to ST\_DEGREE\_PURSUAL

renamed LAST_DEG_TERM_STATUS	to	LAST_ENROLLED_TERM_STATUS		
renamed LAST_DEG_TERM_STATUS_DESC	C to	LAST_ENROLLED_TERM_STATUS_DESC		
renamed HRS_ATTEMPTED_PENN	to	ATTEMPTED_CREDIT		
renamed HRS_ATTEMPTED_PENN_BU	to	ATTEMPTED_CREDIT_BU		
renamed HRS_EARNED_PENN	to	EARNED_CREDIT		
renamed HRS_EARNED_PENN_BU	to	EARNED_CREDIT_BU		
renamed HRS_EARNED_EXT	to	TRANSFER_CREDIT		
renamed HRS_EARNED_EXT_BU	to	TRANSFER_CREDIT_BU		
renamed QUAL_PTS_PENN	to	QUALITY_POINTS		
renamed QUAL_PTS_PENN_BU	to	QUALITY_POINTS_BU		
renamed PENN_GPA	to	GPA		
Deleted these 12 columns:				
UDS ATTEMPTED SYT UDS ATTEMPTED SYT DU UDS ATTEMPTED TOTAL UDS ATTEMPTED TOTAL DU				

HRS\_ATTEMPTED\_EXT, HRS\_ATTEMPTED\_EXT\_BU, HRS\_ATTEMPTED\_TOTAL, HRS\_ATTEMPTED\_TOTAL\_BU, HRS\_EARNED\_TOTAL, HRS\_EARNED\_TOTAL, HRS\_EARNED\_TOTAL\_BU, OVERALL\_GPA, QUAL\_PTS\_EXT, QUAL\_PTS\_EXT\_BU, QUAL\_PTS\_TOTAL, QUAL\_PTS\_TOTAL\_BU, TRANSFER\_GPA

Added these 2 columns:

GPA\_HOURS

GPA\_HOURS\_BU