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
JUNE 17, 2021

Agenda

- Also-Offered-As Course & Banner Defined Cross List Sections

- Course & Course Sections Timeline

- Pennant Student Records data collection

- Crse_Ref_Num (CRN) vs Course_ID , PIDM vs Penn_ID

- Financial Aid data collection

Also-Offered-As Course & Banner Defined Cross List Sections

- The relationship between an also-offered-as/equivalent courses (at the same level) is defined in the **COURSE** record.

- **CRSE_SECTION** records always have a corresponding Course record.

- More than one course section(and potential equivalent partners) can meet together (**CRSE_SECT_SCHED_WITH**) at the same time in the same place.

- There will be times where combinations of sections with **or without the also-offered-as/equivalent designation** will meet in the same room, with the same instructor, etc. The variations and their relationship will be identified with a unique Banner cross-list code. (**SCHED_WITH_GROUP)a**

- The legacy 'Primary section' identification is being derived from a set of business rules.

Banner Cross List Section Hierarchy

- An Oracle function that will be used any time we need to define a Primary Course Section.

- The Data Warehouse will define the "P" on tables containing course section data, including the cross-listed section table: CRSE_SECT_SCHED_WITH

- The Hierarchy is defined as follows:

  - If one P and one or more S exist on the COURSE record, **the corresponding section with P is primary**.

  - If multiple Ps and multiple S exist on the COURSE record, and there is a P/S relationship for each P (P12345, S12345, P23456, S23456)… **the P section with the lowest course number is primary.**

  - If multiple Ps and one or more S exist, and one P and one or more S have the same course family identifier (P12345, S 12345, P 23456)… **the P that is part of the course family is primary.**

  - If none of the above is true, the primary will be determined by the **course section with the lowest Course Reference Number (CRN)**

- Note: this will all be done automatically for users of the Data Warehouse. This slide is meant to explain how the primary will be determined. You do not need to implement this logic yourself

Cutover/Overlap Period	Transition Considerations *During Fall 2021 and Spring 2022*	Tables
Individuals involved in section maintenance will be entering data in two systems in Fall 2021 and Spring 2022: SRS and CLSS	**2021/2022 Academic Year** 3-digit courses will be managed in SRS All active Course Inventory and all Course sections for the 2021/2022 academic year will continue to be extracted to the DWADMIN tables, and will be in the STDTCANQ universe	COURSE_INVENTORY, COURSE_XLIST_INVENTORY, COURSE_INVENTORY_DESC, COURSE_ADMIN_CODE, COURSE_SECTION_REG_CONTROL, COURSE_SECTION)_TUIT_SCHOOL, COURSE_TERMS_OFFERED, COURSE_INV_DESC_TEXT, COURSE_SECTION, COURSE_SECTION_ACTIVITY, COURSE_SECTION_INSTRUCTOR, COURSE_SECTION_STATUS, COURSE_SECTION_TYPE, COURSE_SECTION_TYPE_TERM
The **Academic Year** will determine the appropriate place to look for the data	**2022/2023 Academic Year** 4-digit courses will be managed in CLSS. All converted courses will have the 4-digit course numbers. Course sections built in CLSS will have the 4-digit course numbers. The new records will be in the DWNGSS_PS tables, and will be in the Pennant Student Records universe Course sections for terms prior to the 2022/2023 Academic Year will not be in Pennant Student Records. Queries for older terms' course section data will need to be done in the legacy data collection. The students' academic history -- courses that they took prior to 2022/2023 -- will be in Banner and you will see those data in the new ST_ENROLLMENT table.	COURSE, COURSE_XLIST, CRSE_ATTRIBUTE, CRSE_COREQ, CRSE_EQUIV, CRSE_GRADE_MODE, CRSE_LEVEL, CRSE_MUTUAL_EXCL, CRSE_PREREQ, CRSE_SCHED_TYPE, CRSE_RESTRICT_*, CRSE_SECTION, CRSE_SECT_ATTRIBUTE, CRSE_SECT_INSTRUCTOR, CRSE_SECT_MEETING, CRSE_SECT_OVERRIDE, CRSE_SECT_SCHED_WITH, CRSE_SECT_SCHED_WITH_GRP

Course and **Course Section** data

Pennant Student Records data collection

*COURSE_DESC removed, descriptions added to COURSE

- Added COURSE_ID column - concatenates subject area and course number. (list tables and columns)

- Remember that COURSE_ID, along with TERM, is needed to join between the course section and course inventory information.

- Added a number of "description" columns to many of the tables, to facilitate reporting.

Pennant Student Records data collection

Oracle RESERVED Word Cleanup

- CRSE_SECT_ATTRIBUTES: ATTRIBUTE is now ATTRIBUTE_CODE.
- CRSE_SECT_INSTRUCTOR: CATEGORY was removed.
- ST_HOLD: TO_DATE is now END_DATE, FROM_DATE is now START_DATE.
- ST_THESIS_DISSERTATION: TYPE is now QUALIFYING_PAPER_TYPE

- DEGREE is now DEGREE_CODE, PROGRAM is now PROGRAM_CODE
 in ST_DEGREE_OUTCOME, ST_DEGREE_OUTCOME_MAJOR, ST_DEGREE_TERM, ST_DEGREE_PURSUAL, ST_MAJOR_MINOR

Pennant Student Records data collection

- much larger (and much more realistic) set of data is now available in ST_TERM, ST_DEGREE_TERM, ST_DEGREE_PURSUAL and ST_DEGREE_OUTCOMES

- ST_DEGREE_TERM and ST_DEGREE_PURSUAL both have DEGREE_LEVEL and STUDENT_LEVEL

- ST_DEGREE_PURSUAL now has LAST_ENROLLED_TERM and LAST_DEGREE_TERM

Pennant Student Records data collection

- We are adding indexes to many of the tables in DWHE to facilitate reporting

- In our dev environment, the "current term" is Fall 2020 (202030). The tables are being built-out term-by-term, to the current term if the student is graduating, otherwise to the next_next term (currently 202120).

- Also in our dev environment there are some odd test cases with data in terms "way out" in the future. You can ignore those.

Course Reference Number (CRN) vs Course Section ID

In Pennant Student Records, you will see two identifiers for course sections:

- **CRN**, sometimes called CRSE_REF_NUM in the warehouse tables, is the Banner Course Reference Number that uniquely identifies a scheduled section in Banner. It is used to join tables behind-the-scenes.

- Course **Section_ID** is the Subject Area + Course Number + Section Number (aka sequence number). It is similar to the Section_ID field used in the legacy data collection.

Recommendation: Use Section_ID in reports.

PIDM vs Penn_ID

In Pennant Student Records, you will see two identifiers for person records:

- **PIDM** is the Banner Person identity management unique identifier. It is used to join tables behind-the-scenes.

- **Penn_ID** is the Banner outward-facing identifier. It is used on Banner forms and will be the ID that people will see and use in the user interface.

Recommendation: Use Penn_ID in reports.

Financial Aid Data Warehouse Update

Data in the Financial Aid Data Warehouse will have Banner as Data Source

R1 – August 2021:
SAM and current DWFA is still source for financial aid data for Aid Year 2021-2022. New FA Data Warehouse will be available with limited data -Only incoming applicants for Fall 2022

With R2 and as Banner becomes source of data, more data will populate FA Data Warehouse tables

Financial Aid Data Warehouse Update

FA Data Warehouse Working Group still meeting regularly

Finalizing table structure for data warehouse:

- Awards table
- Bio and Group Information
- Need Information
- Requirements
- Cost of Attendance and Budget

Financial Aid Data Warehouse Update

Discussions on:

- Testing

- Security

- Data Warehouse table useability
  - Institutional Methodology vs Federal Methodology

Financial Aid Data Warehouse Update

We are looking to deliver the following:

- New Tables that are easy to work and join together

- Documentation to explain fields and map current FA Data Warehouse fields to new fields

- New Business Objects Universe

Financial Aid Data Warehouse Update

Timeline:

June/July
◦ finalize data tables, views
◦ documentation
◦ testing

August – R1

Fall – Applicant information for Fall 2022

Wrap-up

◦ Questions/comments

◦ Feedback/ Suggestions for future meetings?

◦ Follow-up questions/comments: da-staff@isc.upenn.edu

◦ Discussions about student data: student-wh@lists.upenn.edu