DATA WAREHOUSE
STUDENT DATA USER GROUP
DECEMBER 9, 2021

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**. We will pause periodically throughout today's meeting to take questions. When your question is being answered, you can go off **Mute** to ask follow-up questions.

Agenda

- Recent changes to Pennant Student Records tables
- Follow-up from the November SDUG
- Demo query using ST_ENROLLMENT
- Preview of Degree Works reporting

Latest Changes to DWNGSS_PS tables and views

Added all of the related "parts" of a section id to the following tables

- CRSE_SECT_SCHED_WITH

    Primary_CourseID, Primary_Course_Num, Primary_Section_Num, Primary_Subject, Primary_CRN
- ST_CRSE_FEE

    Course_ID, Course_Num, Subject, Section_ID, Section_Num
- CRSE_SECTION

    Primary_CourseID, Primary_Course_Num, Primary_Section_Num, Primary_Subject,

    Primary_CRN, Xlist_Family ("Also Offered As" family), Sched_With_Group,

The above changes have been made in both the development and production environments.

Latest Changes to DWNGSS_PS tables and views, continued

- Also added to CRSE_SECTION: Link_Conn

  The link connector will be explained in more detail later in today's meeting

- Also added to CRSE_SECTION: Sched_With_Ind

  As requested at last SDUG, this provides a way to identify sections that are scheduled with. Values are 'Y' or null. Sections that are not scheduled with any other sections will be their own "primary" and will not have the SCHED_WITH_IND.

- Additions to CRSE_EQUIV: Legacy_Equiv_Ind

  CRSE_EQUIV contains some records showing the equivalency back to an old SRS course. The Legacy_Equiv_Ind provides a way to identify such record.

  (Note that, as with the XWALK_COURSE_NUMBER mapping table, not every old course from SRS will have an equivalent new Banner course in the CRSE_EQUIV table.)

The above changes have been made in both the development and production environments.

Latest Changes to DWNGSS_PS tables and views, continued

College House is now populated using a cross-walk table, instead of deriving it from a substring of the Address 1 field. (note: this is a change from the explanation provided at the November SDUG meeting)

Address Type	Penn ID (Addr)	Street 1 (Addr)	Street 2 (Addr)	City (Addr)	College House (Addr)	Addr Start (Ad	Addr End (Ad
LI	13455518	RM 0204 STOUFFER	3702 Spruce Street	Philadelphia	STOUFFER HOUSE	8/21/21	5/11/22
LI	12524007	Rm 0809 Rodin	3901 Locust Walk Mb 0264	Philadelphia	RODIN COLLEGE HOUSE	1/12/21	5/13/21
LI	53442422	Rm 0104 Brooks Fh	3700 Spruce Street Mb 1359	Philadelphia	FISHER HASSENFELD COLLEGE HOUSE	8/28/21	5/11/22
LI	53442422	RM 0418 VAN PELT	3909 Spruce Street	Philadelphia	GREGORY HOUSE	8/28/21	5/11/22
LI	83471306	Rm 0214 Engl Hse	3465 Sansom Street Mb 0042	Philadelphia	KNGS CRT/ENG HSE	8/28/21	5/11/22
LI	83471306	RM 2317 HARRISON	3910 Irving Street	Philadelphia	HARRISON HOUSE	8/28/21	5/11/22
LI	85122339	Rm 0908 Harrison	3910 Irving Street Mb 0304	Philadelphia	HARRISON HOUSE	1/12/21	5/16/21
LI	51393571	RM 2109 RODIN	3901 Locust Walk	Philadelphia	RODIN COLLEGE HOUSE	8/25/21	5/11/22
LI	50538780	Rm 0413 Engl Hse	3465 Sansom Street Mb 0128	Philadelphia	KNGS CRT/ENG HSE	8/28/21	5/11/22
LI	50538780	RM 2113 HARRISON	3910 Irving Street	Philadelphia	HARRISON HOUSE	8/27/21	5/11/22
LI	70764231	RM 0412 COXE WCH	3650 Spruce Street	Philadelphia	WARE HOUSE	8/23/21	5/11/22
LI	65253130	RM 0304 NCH West	211 South 40th Street	Philadelphia	NEW COLLEGE HOUSE WEST	8/27/21	5/11/22
LI	65253130	Rm 2407 Rodin	3901 Locust Walk Mb 0823	Philadelphia	RODIN COLLEGE HOUSE	1/15/21	5/13/21
LI	46235514	Rm 0108 Morris Wch	3650 Spruce Street Mb 0968	Philadelphia	WARE HOUSE	8/28/21	5/11/22

Reporting on meeting times and days

Course Section Meeting report from the legacy system

Term (AC	Section Id (AC,	Building (	Room Numbe	Days Code (A	Sun Flag	Mon Flag	Tue Flag	Wed Flag	Thu Flag (	Fri Flag (	Sat Flag	Start Time	Stop Time
2019C	ARCH201201	ADDM	106	T			Y					1630	1800
2019C	ARCH201201	ADDM	203	R					Y			1330	1800
2019C	ARCH201201	ADDM	203	T			Y					1330	1630

Course Section Meeting from Pennant Student Records

Term (Sect	Section ID (SectN	Building (	Room (5	Day Code Alp	Meets Sunday	Meets Monda	Meets Tuesda	Meets Wedne	Meets Thursd	Meets Friday	Meets Saturda	Begin Time (	End Time (
202130	ARCH2010201	ADDM	106	T			T					1630	1750
202130	ARCH2010201	ADDM	203	R					R			1330	1750
202130	ARCH2010201	ADDM	203	T			T					1330	1620

Linking Course Sections

Term: 202130

Course ID (Sect)	Section ID (Sect)	Title (Sect)	Schedule Type	Link ID	Link Connector	Section Registered
AFRC0350	AFRC0350401	Africa Since 1800	LEC	A1	B1	5
AFRC0350	AFRC0350402	Africa Since 1800	REC	B1	A1	2
AFRC0350	AFRC0350403	Africa Since 1800	REC	B1	A1	0
AFRC0350	AFRC0350404	Africa Since 1800	REC	B1	A1	0
AFRC0350	AFRC0350405	Africa Since 1800	REC	B1	A1	0
AFRC0350	AFRC0350406	Africa Since 1800	REC	B1	A1	2
AFRC0350	AFRC0350407	Africa Since 1800	REC	B1	A1	1

Course ID (Sect)	Section ID (Sect)	Title (Sect)	Schedule Type	Link ID	Link Connector	Section Registered
AFRC0400	AFRC0400401	Colonial Latin America	LEC	A1	B1	0
AFRC0400	AFRC0400402	Colonial Latin America	REC	B1	A1	0
AFRC0400	AFRC0400403	Colonial Latin America	REC	B1	A1	0
AFRC0400	AFRC0400404	Colonial Latin America	REC	B1	A1	0

Demonstration: querying ST_ENROLLMENT

ST_ENROLLMENT: some key points to remember *

- One row per term, student, course section
- Contains both enrollment from academic history as well as the current term
- For columns with credit information, ST_ENROLLMENT contains both the Banner Units (BU) and the translated units in Penn currency. For schools that use "CU" credit type, the BU and Penn currency fields will contain identical information.
- New concepts:
  - Registration Status - see values in V_REG_STATUS table
  - Grade Mode - similar to SRS "grade type" but with some differences, notably: PF and Aud are in Reg Status and not Grade Mode
- Part of Term:
  - Similar to SRS "term sessions"
  - The full term has a POT designation

* Reporting on student enrollment is complex – please start exploring the data available in the development universe!

Preview of Degree Works reporting

With move to Pennant Student Records, there will be a move away from Academic Worksheets

- PATH – Registration, Planning and Advising
    - Banner data
    - Displays degree progress information from Degree Works
- How will we utilize the Degree Works data for reporting?

Today, will discuss what the plans are for Degree Works data, our timeline, and where we are.

Degree Works

September 2021 – the start of plans to create tables for the data warehouse.

A working group with individuals involved with Degree Works meet about once a month
- What are the reporting needs?
- What can we deliver and in what timeframe?

Degree Works

Challenge:
Degree Works data located in database with not a lot of analysis on how to use data while existing reporting needs exist.

Original thought process:
Connect database to ODS and produce some reports while working on tables for data warehouse.

Through data analysis and understanding reporting needs:
In process of creating tables that should be ready to go-live around Release 2.

Degree Works

Early on – discovered that trying to effort to try to figure out how to map out fields for reporting needs would help plan out data warehouse tables

Focus: creation of data warehouse tables to provide reporting capabilities on degree progress and auditing

Timeline:
September – preliminary discussion on reporting needs and what to focus on
October – discovery, on-going discussion, start mapping of tables
November/December – Build in tables in DEV
January/February – Test tables
March/April – Move tables into production. Provide public Business Objects reports.

Degree Works

- Looking at reporting needs
  - Requirements fulfilled
  - Major GPA/Degree GPA
  - PDR

- 9 tables created and being reviewed in development.
  Examples of questions that these tables can answer
      - Percent of major complete, percent of degree complete, major GPA, degree GPA, etc.
      - How many currently enrolled juniors in BIOL need BIOL 2410 to graduate and have not taken it yet?
      - How currently enrolled students used either a FREN or a RUSS course to satisfy one of the 16CU in Arts and Sciences Requirement?
      - How many HIST students still have outstanding requirements for the Geographic Distribution requirement?
      - For current PSCI seniors, provide e a list of courses needed to fulfill their major requirements – along with a count per course.

Degree Works

At this point – will continue to develop tables

Make sure tables can be joined easily with other Pennant Student Records tables.

Test scenarios and validate data.

Possibly in February – demo reporting capabilities with data warehouse tables.

Wrap-up

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