

DATA WAREHOUSE

STUDENT DATA USER GROUP

MAY 24, 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**. 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

Agenda

- Deferred and Late Gap Incoming Student Data
- Miscellaneous News
- Pennant Student Records data collection
“State of the Collection”
- Level vs Degree Level

Deferred and Late Gap Incoming Student Data

- Situation: Incoming Fall 2020 Freshman wanted take a gap year later than usual.
- Initial solution resulted in programs created in SRS mistakenly with entry_action= AD.
- Caused DW degree_pursual records to remain separate/not rollup as expected
- Entry_actions were updated to RX.
- Problem solved. degree_pursual records now rollup as expected.

Deferred and Late Gap Incoming Student Data

How to identify students who took the late gap year and have confirmed their return:

These students are coded in SRS as having taken a leave of absence in fall 2020 (exit action = LV and exit reason = PA) and are returning from leave in 2021 fall.

ENTRY_ACTION	ENTRY_TERM	EXIT_ACTION	EXIT_TERM	EXIT_DATE	EXIT_REASON
AD	2020C	LV	2020C	8/17/2020	PA
RX	2021C	EG	2025A		

Their entry action in Student_APS table in the warehouse for 21C is RX. In Degree_Pursual you will not see the RX.

ENTRY_TERM	ENTRY_ACTION	DEGREE_EXPECTED_TERM
2020C	AD	2025A

If you are looking at them in the warehouse, you will see info for them in the leave tables, but their degree pursual record will have a start term of 2020C (the degree pursual records are rolling up as expected with a leave of absence).

Miscellaneous News

- STDTCANQ: Instructor Names
- Faculty Load universe
- Timeline for course section reporting
- Other News

STDTCANQ: Instructor Names

1. Problem: where to get the instructors' names
 - a. HCM_PERSON_V doesn't have anyone who terminated prior to Workday, so to get both old *and* new employees, we should use EMPLOYEE_GENERAL_V.
 - b. Some instructors are not employees, and thus they will not be in the employee general view. To get both employees *and* affiliates we should use HCM_PERSON_V.
2. Solution: in STDTCANQ, we have a custom view that looks first in HCM_PERSON_V, and if it finds the person, returns the full Legal Name. If not, it looks in EMPLOYEE_GENERAL_V and gets the name.
3. The only down-side is this adds some overhead: queries using the SDTD CANQ universe that need to get instructors' names may take a little longer than they used to.

Faculty Load universe

1. Problem: longitudinal reports using *this specific* Faculty Load universe
 - a. NOT Tuition Distribution. NOT Departmental Teaching Analysis. NOT regular student collection.... The universe is “Faculty Load” and it is built on a custom view.
 - b. We can re-write the view, but that will break things if people need to look for historical information.
2. Solution: Two universes
 - a. **Faculty Load** will still point to the old data structures and will have the old course numbers.
 - b. **Pennant Faculty Load** will point to the new structures and will have the new course numbers.

Timeline for course section reporting

Banner will be opened up in production *this* Fall for departments to build their future course sections (Summer and Fall 2022). We will have the 202220 and 202230 course sections in the production warehouse for downstream systems to use, but we might not have the Business Objects universe ready to roll out in September.

Question: How often do you need to report from the warehouse on course sections that are more than one term in the future?

In other news....

1. The new course numbers in Pennant are an alphanumeric string of length 5. Multi-term courses will have an alpha character appended to the 4-digit number. Downstream systems will need to accommodate the **new length of 5**
2. We are starting to roll out some initial table/column documentation, and some preliminary short training documents:
<https://www.isc.upenn.edu/pennant-student-records>

Pennant Student Records data collection

- Tables are being added/removed and changed
 - COURSE_DESC removed, descriptions added to COURSE
 - ST_DEGREE_PURSUAL – added Last_Degree_Term, Last_Deg_Term_Status

LAST_ENROLLED_TERM	LAST_DEGREE_TERM	LAST_DEG_TERM_STATUS	LAST_DEG_TERM_STATUS_..
201730	201830	NR	Not Returning (DD no W)

- Validity of data in collection has improved with each conversion iteration, however... some data are still sparse, missing, or “not 100% valid”
 - Outcomes (sparse)
 - Actual Graduation term/ Expected grad term (Many do not match. ETL not final)
 - ST_ENROLLMENT (Current registration is sparse)
 - Course restrictions (work-in-progress tables not finalized)

ST_ENROLLMENT in Pennant Student Records

- Current registration is sparse, but Academic History – courses completed, graded are plentiful.
- Override columns added but not in conversion data yet, so all are Null (for now).

Column Name	description
DUPL_OVER_IND	This field identifies the duplicate course override of this CRN.
LINK_OVER_IND	This field identifies the link override of this CRN.
CORQ_OVER_IND	This field identifies the corequisite override of this CRN.
PREQ_OVER_IND	This field identifies the prerequisite override of this CRN.
TIME_OVER_IND	This field identifies the time conflict override of this CRN.
CAPC_OVER_IND	This field identifies the capacity override of this CRN.
LEVL_OVER_IND	This field identifies the level restriction override of this CRN.
COLL_OVER_IND	This field identifies the college restriction override of this CRN.
MAJR_OVER_IND	This field identifies the major restriction override of this CRN.
CLAS_OVER_IND	This field identifies the class restriction override of this CRN.
APPR_OVER_IND	This field identifies the special approval override of this CRN.

ST_ENROLLMENT in Pennant Student Records

- BUs vs Penn currency (CU, CR, SH)
 - Banner registration tables store values in a single currency: Banner Units (BU)s.
 - To accommodate Penn's various currencies (CU, CR, SH) we need to perform currency calculations
 - Currency Calculation/ Shared Business logic
 1. makes sure DW BU credits match credits seen in Banner on forms
 2. Penn currency will match numbers reported on transcripts
 - Currency Calculations "coming soon"
 1. Cumulative overall by level (ST_Degree_Pursual)
 2. Cumulative by level within a term (ST_Term , ST_Degree_Term)

ST_ENROLLMENT in Pennant Student Records

PIDM	TERM	CRN	SECTION_ID	PRIMARY_STUDENT_LEVEL	CREDIT_TYPE	REG_CREDIT_BU	REGISTERED_CREDIT	EARNED_CREDIT_BU	EARNED_CREDIT	GRADE
100019	201830	Z0000	GAFL500029	PR	CU	0.5	0.5	0.5	0.5	A-
100019	201830	Z0001	GAFL599001	PR	CU	0.5	0.5	0	0	F
100033	201730	Z0001	LAW 510003	LW	SH	1.33	4	0	0	CR
100033	201730	Z0002	LAW 504002	LW	SH	1.33	4	1.33	4	B
100410	201810	Z0001	VCSP782425	VT	CR	0.33	2	0.33	2	A
100410	201810	Z0002	VCSP772424	VT	CR	1	6	1	6	A
100410	201810	Z0003	VCSP800423	VT	CR	1	6	1	6	B
100410	201810	Z0004	VCSP776422	VT	CR	0.83	5	0.83	5	B
101115	201810	Z0017	DRST739001	DM	CR	0.71	4.25	0.71	4.25	P

LEVEL: there are two kinds!

1. Student Level is the program level that the student is in. The same level codes used for courses that the student can enroll in. This kind of level controls registration and determines which courses will appear on the student's transcript. It functions like "career" functioned in the old system but is much more widely used throughout Banner.
2. Degree Level is the level associated with a degree code. It functions like the degree level "D,U,M,P" codes functioned in the old system.

STUDENT_LEVEL_...	STUDENT_LEVEL_DESC
VT	Vet
UG	Undergraduate
PR	Professional
MD	Medical
LW	Law
HS	High School
GR	Graduate/Research
DM	Dental
CE	Continuing Education
00	Undeclared

DEGREE_LEVEL_CODE	DEGREE_LEVEL_DESC
OT	Other
LA	Less than Associate
AS	Associate
BA	Bachelor
PR	Professional
MA	Master
DR	Doctorate

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