

DATA WAREHOUSE

STUDENT DATA USER GROUP

OCTOBER 13, 2022

Remote meeting reminders

- Please turn off your video function, and make sure you are on Mute.
- Please **enter your questions in the chat function**. We will pause periodically during today's meeting for comments and questions. You can also use the "raise hand" reaction, so someone on our team can recognize you.

Agenda

- Privacy and confidentiality of student records
- Retirement of the Address_Type of 'LO'
- Term Snapshots
- Recent changes in the data collection
- Q&A and Wrap-up

Privacy and confidentiality of student records

- Reminder about FERPA and Directory Information
 - Annual required Training in Knowledge Link – we are reviewing access for users who have not yet completed the training and will be reaching out to people shortly
 - Family Educational Rights and Privacy Act - Annual Overview (Curriculum ID UP.87024.CURR.FERPA002)
 - FERPA & information regarding "legitimate educational interest: <https://oacp.upenn.edu/ferpa-notice/>
 - Directory Information: <https://oacp.upenn.edu/privacy/yourdata/online-directory/>
 - Questions to the OUR or Scott Schafer in Office of Audit, Compliance and Privacy (OACP)
- Change in privacy: SRS vs Pennant
- Where do you find the privacy indicator?
 - In the warehouse: in DWNGSS_PS.STUDENT.CONFID_IND (values 'Y' or null)
 - In Pennant Reports: in every report with student PII, and also as a report filter

Retirement of the Address_Type of 'LO'

- Reminder: LF (learning from) address type, created to respond to COVID for fall 2020
- We have a lot of address types: PR, LO, LI, LF and it creates confusion we could minimize
- SRFS and other believe the LO and LF addresses are redundant
- Recommendation to retire the LO address type, use the LF & LI addresses, in December 2022
- Please share information with your constituents and report back to Margaret Kip with any concerns
- We are socializing with stakeholders across campus including VPUL, VPE, IR&A, ISSS, etc.

Term Snapshots

(Legacy) Student Term Census Extracts - “Snapshots” of data extracted from SRS at the Census date during a semester. This collection contains data from the C (Census) type of SRS Term Extract up to the Spring of 2022.

BusinessObjects Universe: **STDTERM**

(New) Pennant Student Records Term Snapshots - “Snapshots” of data present in the Pennant Student Records collection of tables in the data warehouse at key points-in-time during a semester. Up to 2X per term. Begins with Fall 2022.

BusinessObjects Universe: **Pennant Student Records Snapshot**

Term Snapshots

(Legacy) Student Term Census Extracts

- Sourced from SRS term extract, a different source from the SRS nightly load process.
- Consists of 11 views in the warehouse. DWADMIN and DWST schemas
- Names start with 'CEN_' i.e., CEN_COURSE_SECTION

Pennant Student Records Term Snapshots

- Direct insert (no ETL) into snapshot table from nightly refreshed table.
- **All** tables in DWNGSS_PS schema are included. Approx 70 tables
- Names start with 'SNAP_' i.e., SNAP_COURSE_SECTION

Pennant Student Records Snapshots

Snapshot Types

C = Census snapshot - typically, the end of the fifth week of the full-term

- in mid-October for Fall
- In mid-February for Spring
- TBD for Summer

F= Final snapshot – Done after the term ends.

The first snapshot for this new data collection will be the Census snapshot, taken on 10/17/22, for the 202230 term.

Pennant Student Records Snapshots

The tables in this collection are identical in structure to the tables in the Pennant Student Records collection, with 3 additional columns.

SNAP_TERM: the term in which the snapshot was taken

SNAP_TYPE: the type of snapshot, i.e., 'C' for census, and 'F' for final.

SNAP_DATE: the date on which the snapshot was taken

Data will be appended to the snapshot tables over time. Once a snapshot is taken, it is considered “frozen” and the data in that snapshot are never subsequently updated.

Pennant Student Records Snapshots

All joins in the Pennant Student Records Snapshot universe include the SNAP_TERM and the SNAP_TYPE.

If you are writing your own SQL, and you want to avoid getting back multiple rows, you should also include SNAP_TERM and SNAP_TYPE in your joins.

So, for example, the join between SNAP_ST_DEGREE_TERM and SNAP_ST_DEGREE_PURSUAL is:

```
SNAP_ST_DEGREE_PURSUAL.PENN_ID = SNAP_ST_DEGREE_TERM.PENN_ID and  
SNAP_ST_DEGREE_PURSUAL.DWLD_CURRIC_ID = SNAP_ST_DEGREE_TERM.DWLD_CURRIC_ID and  
SNAP_ST_DEGREE_PURSUAL.SNAP_TERM = SNAP_ST_DEGREE_TERM.SNAP_TERM and  
SNAP_ST_DEGREE_PURSUAL.SNAP_TYPE = SNAP_ST_DEGREE_TERM.SNAP_TYPE
```

Pennant Student Records Snapshots

In the following hypothetical example, a student went on leave of absence in-between the Census and Final snapshots for the term 205010. Note how the Student_Status and Exit information has changed. Results are from SNAP_ST_TERM.

The SNAP_TYPE 'C' row shows the student status was AS when that snapshot was taken on 2/28/2050.

The SNAP_TYPE 'F' row shows what the data looked like on 5/30/2050, when that snapshot was taken. Status is AL, Exit_Action is L, Exit_Date is 4/1/2050.

SNAP_TERM	SNAP_TYPE	SNAP_DATE	PENN_ID	DIVISION	DEGREE_CODE	STUDENT_STATUS	EXIT_ACTION	EXIT_DATE
205010	C	2/28/2050	12345678	AU	BA	AS		
205010	F	5/30/2050	12345678	AU	BA	AL	L	4/1/2050

Recent changes

- Fixed inconsistencies in the PHD and Dissertation count fields, and made the following changes:
 - ST_DEGREE_PURSUAL - don't include future terms in the count:
 - PHD_TERMS, DISSERTATION_TERMS
 - ST_DEGREE_TERM - don't display for future terms:
 - PHD_TERM, PHD_TERM_DESC
 - ST_TERM - don't display for future terms:
 - RATE_CODE, RATE_CODE_DESC
 - ON DISSERTATION, DISSERTATION_TERM_COUNT
 - ON_MASTERS_THESIS
 - Note also that we will no longer have 'N' in ON_DISSERTATION or ON_MASTERS_THESIS

New table: DWNGSS_PS.ST_ACADEMIC_EVENT

Contains information is related to awards, honors, graduate milestones, and other non-course events. The event codes have some standard conventions that use the first character in the code.

Some examples (*not* an exhaustive list):

A... = awards, for example A02 (Judith Rodin Award)

B... = graduate benchmarks, for example BDQ (PhD Qualifying Evaluation)

C... = certificates, for example CAS (Certificate in American Sign Language)

E... = exams, for example EXC (Candidacy Examination)

F... = fellowships, for example F14 (Fontaine Fellowship)

H... = honors, for example H11 (Phi Beta Kappa) -- more about honors on later slides

Event codes are found in the DWNGSS.V_TRANSCRIPT_EVENT table. NOTE: Even though we included the word “Transcript” in the validation table name, *not everything in ST_ACADEMIC_EVENT will appear on students’ transcripts*. The validation table has a column called TRANSCRIPT_DISP_IND; a ‘Y’ in that column indicates the event code is used on transcripts.

What's the difference between non-course requirements and non-course events?

ST_NONCOURSE_REQ

Contains information about student's completion of degree requirements that are not course-related. Joined to ST_DEGREE_PURSUAL on student id and student level. New column in this table has the status term.

ST_ACADEMIC_EVENT

Contains information about non-course events like honors, awards, and some non course degree requirements. Joined to ST_DEGREE_PURSUAL on student id and student level.

Some event codes are used in both tables, some are not. For example:

EXM (Master's Final Exam) appears in both ST_NONCOURSE_REQ and ST_ACADEMIC_EVENT

TRQ (Teaching Requirement) appears in both ST_NONCOURSE_REQ and ST_ACADEMIC_EVENT

on the other hand:

CTE (College and Univ. Teaching) appears in ST_ACADEMIC_EVENT but not ST_NONCOURSE_REQ

H29 (Benjamin Franklin Scholar) appears in ST_ACADEMIC_EVENT but not ST_NONCOURSE_REQ

ISB (Summer Business Internship) appears in ST_NONCOURSE_REQ but not in ST_ACADEMIC_EVENT

Special note about events that are teaching requirements (TRQ)

When looking at a non-course event and academic event that is a teaching requirement, you can join between ST_NONCOURSE_REQ and ST_ACADEMIC_EVENT on the student's penn_id, the event code 'TRQ', and the status term, to get the specific term and course that satisfied the requirement.

Query Filters

Noncourse Type (NCR) In List TRQ

AND

Event Code (AE) In List TRQ

Event Term (AE) Equal to Status Term (NCR)

Noncourse Type (NCR)	Noncourse Type Desc (NCR)	Penn Id (NCR)	Noncourse Status Desc (NCR)	Student Level	Status Or Crse (AE)	Event Term (AE)	Transcript Disp
TRQ	Teaching Requirement	10004058	Satisfied	GR	HSOC002	201830	N
TRQ	Teaching Requirement	10004058	Satisfied	GR	HSOC102	201910	N
TRQ	Teaching Requirement	10004058	Satisfied	GR	HSOC102	202010	N
TRQ	Teaching Requirement	10004058	Satisfied	GR	HSOC150	201930	N
TRQ	Teaching Requirement	10004058	Satisfied	GR	CPIN500	201910	N

Related tables: different types of honors

ST_DEPT_HONOR

Contains major honors awarded by the department, for example:

BIOP	Biophysics
EASC	Earth Sciences
PHIL	Philosophy

ST_INST_HONOR

Contains institutional honors, usually based on GPA in a degree, for example:

SUMMAC	Summa Cum Laude
MAGNAC	Magna Cum Laude
ORCOIF	Order of the Coif

ST_ACADEMIC_EVENT

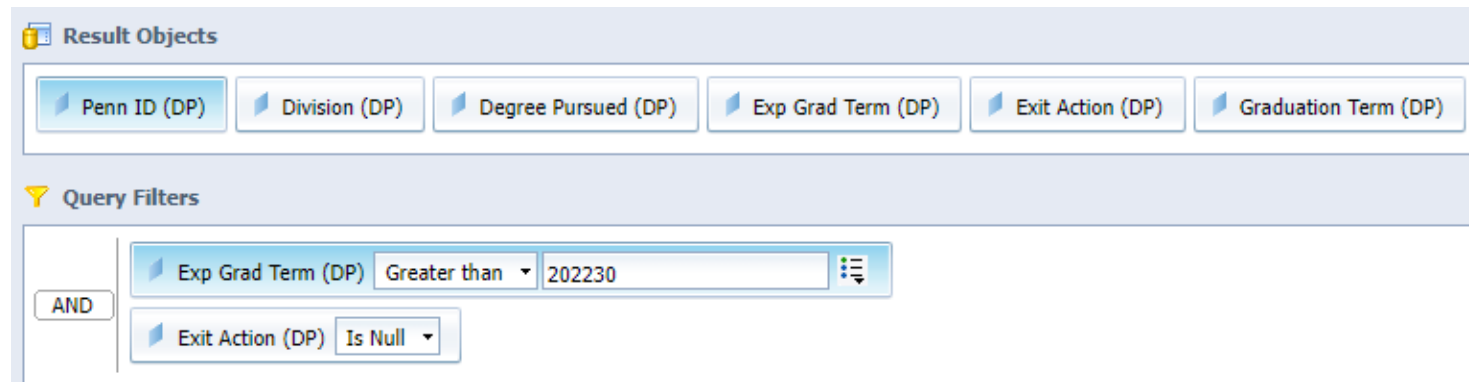
Contains honors, awards, and prizes that are awarded for other criteria, for example:

H01	Matthew Cryer Honor Society
H11	Phi Beta Kappa
H52	University Scholars

Postscript...

A caution about looking for students planning to graduated using ST_DEGREE_PURSUAL:

If you only filter for
Exp Grad Term (DP)...



The screenshot shows a query builder interface with two main sections: 'Result Objects' and 'Query Filters'. The 'Result Objects' section contains six buttons: 'Penn ID (DP)', 'Division (DP)', 'Degree Pursued (DP)', 'Exp Grad Term (DP)', 'Exit Action (DP)', and 'Graduation Term (DP)'. The 'Query Filters' section contains two filters: 'Exp Grad Term (DP) Greater than 202230' and 'Exit Action (DP) Is Null'. An 'AND' button is positioned between the two filters.

You could end up with things like this:

Division (DP)	Degree Pursu	Exp Grad Term	Exit Action (DI	Graduation Term (DP)
AB	BAAS	202330		202220
EM	MCIT	202410		202220
MP	PHD	202330		202220

Solution: when looking for expected grads,
also filter for “and Graduation Term (DP) is null”

Wrap-up

Upcoming meetings: 2nd Thursday, each month, 11:00 am – noon
Outlook invite with the MS Teams link sent to student-wh@lists.upenn.edu

Past SDUG meetings: https://provider.www.upenn.edu/computing/da/dw/pennant-student-records/SDUG_Past_Mtgs.html

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

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