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
JULY 21, 2021

Agenda

- New meetings schedule:
  - ➢ 2nd Thurs of month 11:30am-12:30pm Aug-Dec 2021

- Pennant Student Records data collection
  - ➢ Recent Changes & Additions

  - ➢ Training Digest topics:
    - ❖ Student Status vs Student Enrollment Status v Registration Status
    - ❖ Multiple concurrent programs
    - ❖ Academic Program Types

Changes & Additions

Student_Level & Student_Level_Desc
- added to ST_DEGREE_OUTCOME, ST_DEGREE_PURSUAL, ST_DEGREE_TERM

Acad_Program_Type & Acad_Program_Type_Desc
- *Coming soon* to ST_DEGREE_PURSUAL, ST_DEGREE_TERM

Dissertation_term_count
- added to ST_TERM (excludes summer terms)

Group_Pri_Section_Id
- in CRSE_SECT_SCHED_WITH – is now populated

Changes & Additions

Coming Soon…

Academic statistic columns in ST_DEGREE_TERM will be renamed for consistency with ST_DEGREE_PURSUAL.

ST_DEGEE_TERM COLUMN NAME	Description
TERM_ATTEMPTED_CREDIT	the institutional attempted credits as transformed into Penn's currency.
TERM_ATTEMPTED_CREDIT_BU	the institutional attempted credits in Banner Units.
TERM_EARNED_CREDIT	the institutional earned credits as transformed into Penn's currency.
TERM_EARNED_CREDIT_BU	the institutional earned credits in Banner Units
TERM_QUALITY_POINTS	the institutional quality points as transformed into Penn's currency.
TERM_QUALITY_POINTS_BU	the institutional quality points in Banner Units
TERM_GPA_HOURS	the institutional GPA hours as transformed into Penn's currency.
TERM_GPA_HOURS_BU	the institutional GPA hours in Banner Units
TERM_GPA	This is the Term GPA based on institutional credits.
TERM_CUMULATIVE_GPA	This is the Cumulative GPA based on institutional credits.

Changes & Additions

Coming Soon...

Academic statistic columns in ST_DEGREE_PURSUAL will be renamed for consistency and clarity.

`SHRTGPA_GPA_TYPE_IND='I'`

PENN_{statistic}

ST_DEGREE_PURSUAL COLUMN NAME	Description
PENN_ATTEMPTED_CREDIT	the institutional attempted credits as transformed into Penn's currency.
PENN_ATTEMPTED_CREDIT_BU	the institutional attempted credits in Banner Units.
PENN_EARNED_CREDIT	the institutional earned credits as transformed into Penn's currency.
PENN_EARNED_CREDIT_BU	the institutional earned credits in Banner Units
PENN_QUALITY_POINTS	the institutional quality points as transformed into Penn's currency.
PENN_QUALITY_POINTS_BU	the institutional quality points in Banner Units
PENN_GPA_HOURS	the institutional GPA hours as transformed into Penn's currency.
PENN_GPA_HOURS_BU	the institutional GPA hours in Banner Units
PENN_GPA	This is the GPA based on institutional credits.

Changes & Additions

Coming Soon…

Academic statistic columns in ST_DEGREE_PURSUAL for External.

`SHRTGPA_GPA_TYPE_IND='T'`

EXT_{statistic}

ST_DEGREE_PURSUAL COLUMN NAME	Description
EXT_ATTEMPTED_CREDIT	the EXTERNAL attempted credits as transformed into Penn's currency.
EXT_ATTEMPTED_CREDIT_BU	the EXTERNAL attempted credits in Banner Units.
EXT_EARNED_CREDIT	the EXTERNAL earned credits as transformed into Penn's currency.
EXT_EARNED_CREDIT_BU	the EXTERNAL earned credits in Banner Units
EXT_QUALITY_POINTS	the EXTERNAL quality points as transformed into Penn's currency.
EXT_QUALITY_POINTS_BU	the EXTERNAL quality points in Banner Units
EXT_GPA_HOURS	the EXTERNAL GPA hours as transformed into Penn's currency.
EXT_GPA_HOURS_BU	the EXTERNAL GPA hours in Banner Units
EXT_GPA	This is the GPA based on EXTERNAL credits.

Changes & Additions

Coming Soon…

 Academic statistic columns in ST_DEGREE_PURSUAL for Overall.

SHRTGPA_GPA_TYPE_IND='O'

OVRL_{statistic}

ST_DEGREE_PURSUAL COLUMN NAME	Description
OVRL_ATTEMPTED_CREDIT	the OVERALL attempted credits as transformed into Penn's currency.
OVRL_ATTEMPTED_CREDIT_BU	the OVERALL attempted credits in Banner Units.
OVRL_EARNED_CREDIT	the OVERALL earned credits as transformed into Penn's currency.
OVRL_EARNED_CREDIT_BU	the OVERALL earned credits in Banner Units
OVRL_QUALITY_POINTS	the OVERALL quality points as transformed into Penn's currency.
OVRL_QUALITY_POINTS_BU	the OVERALL quality points in Banner Units
OVRL_GPA_HOURS	the OVERALL GPA hours as transformed into Penn's currency.
OVRL_GPA_HOURS_BU	the OVERALL GPA hours in Banner Units
OVRL_GPA	This is the GPA based on OVERALL credits.

Training Digest topics

Different types of Status

- Student Status
- Enrollment Status
- Registration Status

Multiple concurrent programs

- Multiple degrees
- Coordinated multiple degrees
- Submatriculation

Academic Program Types

Status

There are many types of "status" fields in Pennant. Today we are focusing on just three types.

When you want to report on "active students" typically you need to know what "active" means in the context of your reporting requirements. Are you looking for students who are:
>Currently in any type of curriculum?
>Taking courses?
>Taking courses for academic credit?

Depending on what you are looking for, you will likely want to look at
Student Status, or Enrollment Status, or Registration Status…
Or some combination of those.

Student Status

The Status of a student describes whether they are considered Active in a term, and if inactive, the status provides some reasons why.

Student Status is "term-effective" in Banner but is stored in the Data Warehouse term-by-term to facilitate reporting. A student can only be in one status in any given term. The warehouse stores the most recent status for each term.

Student Status is found in the **ST_TERM** table. The warehouse validation table is **V_STDNT_STATUS**. In the source Banner database, they are found in SGBSTDN, and the validation table is STVSTST.

Student Status values

Student Status Code	Student Status Description
AL	Active on Leave
AS	Active
IC	Cancelled by Admitting Office
ID	Dropped by Division
IF	Deferred Admission
IG	Inactive Graduated
IN	Inactive No-Show
IS	Inactive
IW	Inactive Withdrew

Enrollment Status

Enrollment Status describes the overall eligibility of a student to register for courses in a term, or, if not eligible, provides some additional information as to why.

Enrollment status is stored term-by-term in both Banner and in the Data Warehouse. A student can have only one Enrollment Status in any term at any given time. The warehouse stores the most recent status for each term.

Enrollment Status is found in the **ST_TERM** table. The warehouse validation table is **V_ENROL_STATUS.** In the source Banner database, the enrollment status is found in SFBETRM and the validation table is STVESTS.

Enrollment Status values

Enrollment Status Code	Enrollment Status Description
AD	Administrative Drop (DD no W)
EL	Eligible to Register
W0	Withdraw 0% adjustment
W2	Withdraw 25% adjustment
W5	Withdraw 50% adjustment

Examples only – not the complete list

Registration Status

Registration status is the status of a student's registration in a specific course section in a term. There can only be one registration status per student per course section per term at any given time. The warehouse stores the most recent status.

Registration Status is found in the **ST_ENROLLMENT** table. In ST_ENROLLMENT there is one row per course section per student per term. The warehouse validation table for registration status is **V_REG_STATUS**. In the source Banner database, the registration status is found in SRFSTCR and the validation table is STVRSTS.

In the Pennant Student Records universe, ST_TERM is joined to ST_ENROLLMENT on pidm and term. There is a one-to-many relationship between ST_TERM and ST_ENROLLMENT. A student in a term has one Student Status and, when applicable, one Enrollment Status. That same student can be in one or more courses in a term, and each course they are registered for has a Registration Status.

Registration Status values

Reg_Status	Reg Status Description
RE	Registered
AD	Administrative Drop (DD no W)
AU	Audit Course
CC	Cancel Class (DD)
D0	Drop Course 0% adjustment

Examples only – not the complete list

Penn ID (ST)	Term (ST)	Student Status (ST)	Student Status Desc (ST)	Time Status (ST)	Time Status Desc (ST)	Term Enrollment Status (ST)	Term Enrollment Status (ST)	Section ID (StEnrl)	Registration Status (StEnrl)	Reg Status Desc (StEnrl)
12345678	202230	AS	Active	LH	Less Than Half Time	EL	Eligible to Register	EDMC7070001	RE	Registered
12345678	202230	AS	Active	LH	Less Than Half Time	EL	Eligible to Register	EDMC8120001	AU	Audit Course
23456789	202230	AS	Active			EL	Eligible to Register			
34567890	202230	AL	Active on Leave							
45678901	202230	IG	Inactive Graduated							

1: Student is Active, Eligible to Register, and registered for two courses. One of their courses is being taken as Audit.
2: Student is Active, Eligible to Register, but has no course registrations yet.
3: Student is on Leave
4: Student is Inactive because they graduated

Questions about these three types of "status"?

Multiple concurrent programs

When a student is in more than one academic program at the same time, we sometimes refer to this as their "concurrent curricula" or "multi degree" programs. The following are different types of multi concurrent curricula:

Multiple degrees
Coordinated multiple degrees
Submatriculation

These types are identified in the V_DEGREE table by degree codes starting with a 'Z'. They can be found on the student's ST_TERM record, in the field called DUAL_JOINT_SUB_IND. If there is nothing in DUAL_JOINT_SUB_IND, the student is not in more than one program in that term. If there is a value in DUAL_JOINT_SUB_IND, they are in at least two, and possibly more than two programs in that term.

Dual_Joint_Sub_ind values

Code	Description	
ZMD	Multiple Degree	A "traditional" or "non-coordinated" dual degree program, where the student is pursuing more than one degree in different curricula. They will receive two degrees. The details of each degree program can be found in the ST_DEGREE_TERM table.
ZMDC	Multi-degree Coordinated	A "Coordinated" multiple degree program. The student was admitted jointly to two degree programs, and those programs are coordinated. The divisions offering the degrees work together to maintain the requirements and offerings for these programs. They will receive two degrees. The details of both curricula in the coordinated program can be found in the ST_DEGREE_TERM table. More about this one on the next slide.
ZMDJ	Joint Degree	The student is in multiple curricula – usually multiple divisions – but the end result will be that they will get just one degree. At Penn, this is how the "joint PhD" programs are configured.
ZSUB	Sub-matriculate Relationship	While the student was still finishing an undergraduate program, they started a Master's Degree program. The undergrad and graduate level programs overlap. Usually, the student will finish both the undergrad and the grad degree at the same time.
ZMDX	Multiple Deg - External Inst	The student is working on a degree that is being coordinated between Penn and another institution of higher education.

ZMDC: where to look for details

Two places you can look for the specific coordinated program(s):

Table: ST_DEGREE_TERM (one row per student per curriculum per term)
Column: COORD_MULTI_DEGR

Table: ST_COHORT (one row per student per cohort per term)
Column: COHORT

We will have more about Student Cohorts and Student Attributes at a future Student Data User Group session.

Codes beginning with ZMDC are the coordinated multi degree programs:

Cohort Code	Cohort Description
ZMDC-BIOD	Dual Degree 7yr Bio Dental Pgm
ZMDC-CMPC	Dual Degree Comp & CogSci Pgm
ZMDC-DESTH	Dual Degree DsgnThry Strc Thry
ZMDC-ECAS	Dual Degree Econ & Applied Sci
ZMDC-EVTEC	Dual Degree Enrnmnt & Technlgy
ZMDC-HUNTS	Dual Degree Hunts Intnl & Bus
ZMDC-JDMBA	Dual Degree JD/MBA
ZMDC-LAUD	Dual Degree Lauder GAS/MBA
ZMDC-LD/LW	Dual Degree Lauder JD/GAS
ZMDC-LSTEC	Dual Degree Lib Std & Technlgy
ZMDC-MANDT	Dual Degree Managmnt & Tchnlgy
ZMDC-MBAEG	Dual Degree Lauder MBA/MSEng
ZMDC-MBAMF	Dual Degree Lauder MBA/MFA
ZMDC-MDMBA	Dual Degree MD/MBA
ZMDC-MDPHD	Dual Degree MD/PhD
ZMDC-NHCM	Dual Degree Nsg & HlthCare Mng
ZMDC-NUTEC	Dual Degree Nrsng & Technology
ZMDC-SCTEC	Dual Degree Sci, Tchnlgy, Scty
ZMDC-VAGLS	Dual Degree Vagelos LSM Pgm
ZMDC-VIPER	Dual Degree Viper Energy Rsrch
ZMDC-VTMBA	Dual Degree VMD/MBA

Questions about multiple concurrent curricula?

Academic Program types

In our Count Students reports, and in Tuition Distribution and other reporting areas, we have a concept of "TYPE" of academic program. The relationship between academic program and the academic program type will be in a source table, maintained by the OUR.

You will see five types in the Pennant Student Records data collection:

Traditional Undergraduate

Professional and Other degree Program

PhD and Research Masters

Certificate and Non-Degree Program

Non-Credit Programs and Affiliated Students

One program type is assigned to each program code, for example:
(see dwngss.v_program for the entire list)

PROGRAM_CODE	PROGRAM_DESC	ACAD_PROGRAM_TYPE	ACAD_PROGRAM_TYPE_DESC
MM_MSMP	Master of Science in Medical Physics	PROF-OTH DEGREE	**Professional and Other degree Program**
DY_CERT_DM	Graduate Dental Education Certificate	CERT-NONDEGREE	**Certificate and Non-Degree Program**
AM_NONDG_CAA	LPS - Master of Science in Liberal Arts - Certificate of Advanced Study	CERT-NONDEGREE	**Certificate and Non-Degree Program**
AC_SA	Senior Associates	NONCREDIT-AFFIL	**Non-Credit Programs and Affiliated Students**
AU_BA_VIPER	Bachelor of Arts - Vagelos Integrated Program in Energy Research	TRADITIONAL UG	**Traditional Undergraduate**
FM_MS	Master of Science	PROF-OTH DEGREE	**Professional and Other degree Program**
WM_NONDEG_PR	Wharton Non Degree Professional	CERT-NONDEGREE	**Certificate and Non-Degree Program**
EU_BAS	Bachelor of Applied Science	TRADITIONAL UG	**Traditional Undergraduate**
NM_MSN	Master of Science in Nursing	PROF-OTH DEGREE	**Professional and Other degree Program**
NP_PHD	Doctor of Philosophy	PHD-RESEARCHMAS	**PhD and Research Masters**

Questions about academic program types?

Follow-up from last SDUG meeting

There will be some things for which we will need to continue to use the old Student Data collection (universe STDTCANQ), even after Pennant Records goes live in 2022:

◦ Course Sections offered prior to Summer 2022.

   We will be able to see what courses students were enrolled in (ST_ENROLLMENT table), but the details about the course section, such as who taught it or the old SRS section types, will not be in the new CRSE_SECTION table. Old course sections will be available in the old Student Data collection.

◦ Pre-Pennant course numbers, where the old course was a secondary in a cross-listed relationship, or where old courses were expanded into multiple new courses.

   For schools that had a straightforward re-numbering (1-to-1 old-to-new) the cross-walk table DWNGSS.XWALK_CRSE_NUMBER will help you find the old course number that matches the new. For more complex re-numbering, such as deployed by Arts & Sciences, longitudinal studies that look at courses across time will need to query the old Student Data collection and the new Pennant Student Records collection separately.

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