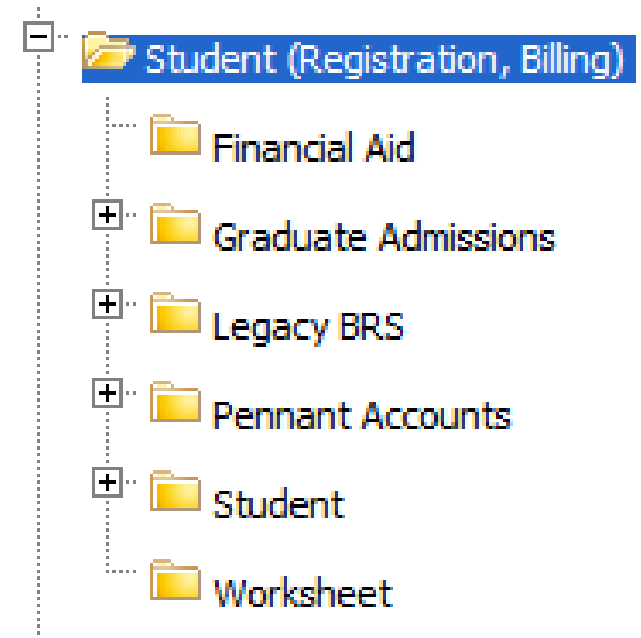# Getting ready for the move to Pennant Records

Overview for report writers

Data Warehouse Student Data User Group

June 19, 2019

Why you need to start getting ready

1. For people who write their own SQL: the schema, table, and column names will be different in the Pennant Records' new student data collection.

2. For people who use Business Objects: the universe structure will be different. You will not be able to take an existing query and simply "point" it to a new universe.

3. The canned queries in the Public "Student" folder and subfolders will be re-written, but you will need re-do all of your own queries.

4. The existing data structures, universes, and canned queries will not be deleted, and they will be useful to help during the transition.

However, all new information going forward will be in the new tables, new universes, and new canned queries.

We will be converting the historic information into the new tables, so after the initial transition period you should be able to do all of your querying from the new tables.

5. **Don't Panic.**

The Student Data team in Enterprise Information & Analytics is here to help:

- We will have documentation and examples for you to follow
- Once we have a test database up and running, you can get started ahead of time
- We will hold workshops and office hours
- There will be a more extensive library of corporate documents for you to use
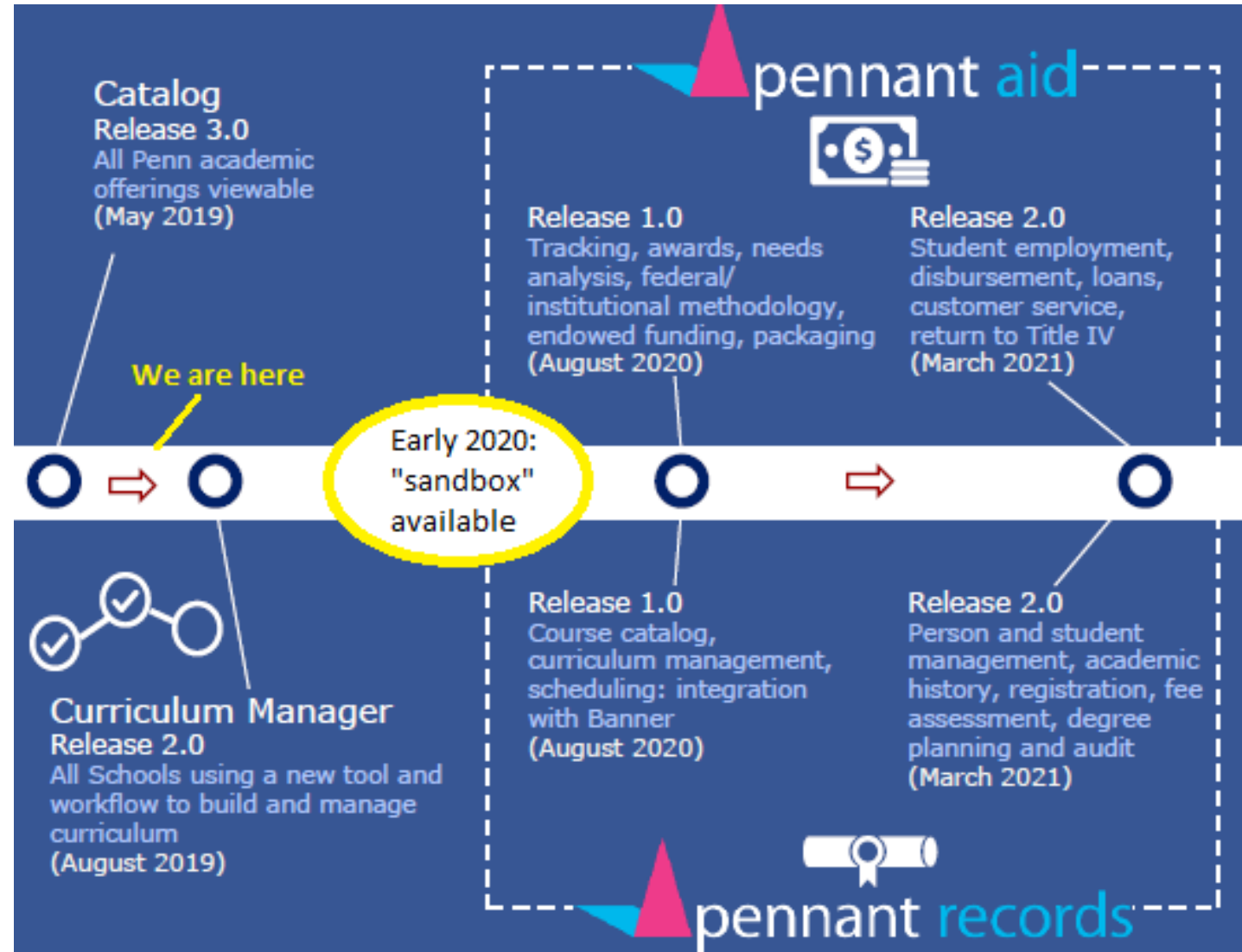
What you should start to do now

- Business Objects Infoview only users:
  - Let us know which documents in the public folders you currently use, and whether/how they could better suit your needs

- Webi Users:
  - Take an inventory of all your personal documents, and
    - Prioritize what you have: What's old and no longer needed? What's critical and will need to be converted asap? What's probably needed but can wait till later to convert?
    - Consider consolidating similar queries.
    - Compare what you have in your personal documents with the list of proposed Pennant Records corporate documents: are there things on the list you might be able to just use and/or build from, instead of re-writing your own?

- Developers and people who write their own SQL:
  - Similar inventory & prioritization activities: What's critical, what can wait, etc.
  - Take a look at the list of proposed Pennant Records corporate documents: there may be sql used by those that you can build from.

High level timeline:
http://ngss.srfs.upenn.edu/pdf/NGSS-path-to-completion.pdf

Here is a (slightly modified) section of that timeline:

Other NGSS project information can be found in ngss.srfs.upenn.edu

Catalog
Release 3.0
All Penn academic offerings viewable
(May 2019)

We are here

Early 2020: "sandbox" available

pennant aid

Release 1.0
Tracking, awards, needs analysis, federal/ institutional methodology, endowed funding, packaging
(August 2020)

Release 2.0
Student employment, disbursement, loans, customer service, return to Title IV
(March 2021)

Curriculum Manager
Release 2.0
All Schools using a new tool and workflow to build and manage curriculum
(August 2019)

Release 1.0
Course catalog, curriculum management, scheduling: integration with Banner
(August 2020)

Release 2.0
Person and student management, academic history, registration, fee assessment, degree planning and audit
(March 2021)

pennant records

proposed Pennant Records corporate documents:
https://upenn.box.com/s/mckd0oxbcop64i3bu6bl06cjr6xin444

Short Description	Category	Business Purpose	Potential user-supplied parameters	Replicates existinging report?	Fre of
Count Students with no Tuition Billed	Cross-collection	Find students who are actively enrolled in a term but who were not billed tuition	Banner college, degree, major, type of student, type of program, term	yes	var
Count PhD Students and Stipends	Cross-collection, F	Find PhD students who have stipend funding	Grad Group, term	yes	var
Students on Hold	Hold	Find students who are currently on hold	Banner college, major, type of student, term	no- new report	var
Student Degree List	Graduation	Be able to report on students who are graduating, or who have graduated in a specified term(s)	Banner college, major, type of student, term	yes	var
Faculty Load	Courses and Instr	Instructors teaching in a term (excluding cancelled courses), with the instructor and course attributes	college and department	sort-of	var
		Report on courses that are "also offered as" under			

The list has a short name and description of the proposed report, what user-supplied parameters might be available, and other properties like the intended audience, etc.

For example,
if you have a query
that looks at
enrollment in a term
for a specific
population...

Result Objects

| Penn Id (AC, ENRL) | Term (AC, ENRL) | Section Id (AC, ENRL) | Registered Credit (AC, ENRL) | Credit Type (AC, ENRL) | Status (AC, ENRL) |

Query Filters

AND

Term (AC, ENRL) | Equal to | Enter Term (AC, ENRL)

Subject Area (AC, ENRL) | Equal to | Enter Subject Area (AC, ENRL)

...you might be able to use the new "Course Enrollment" query:

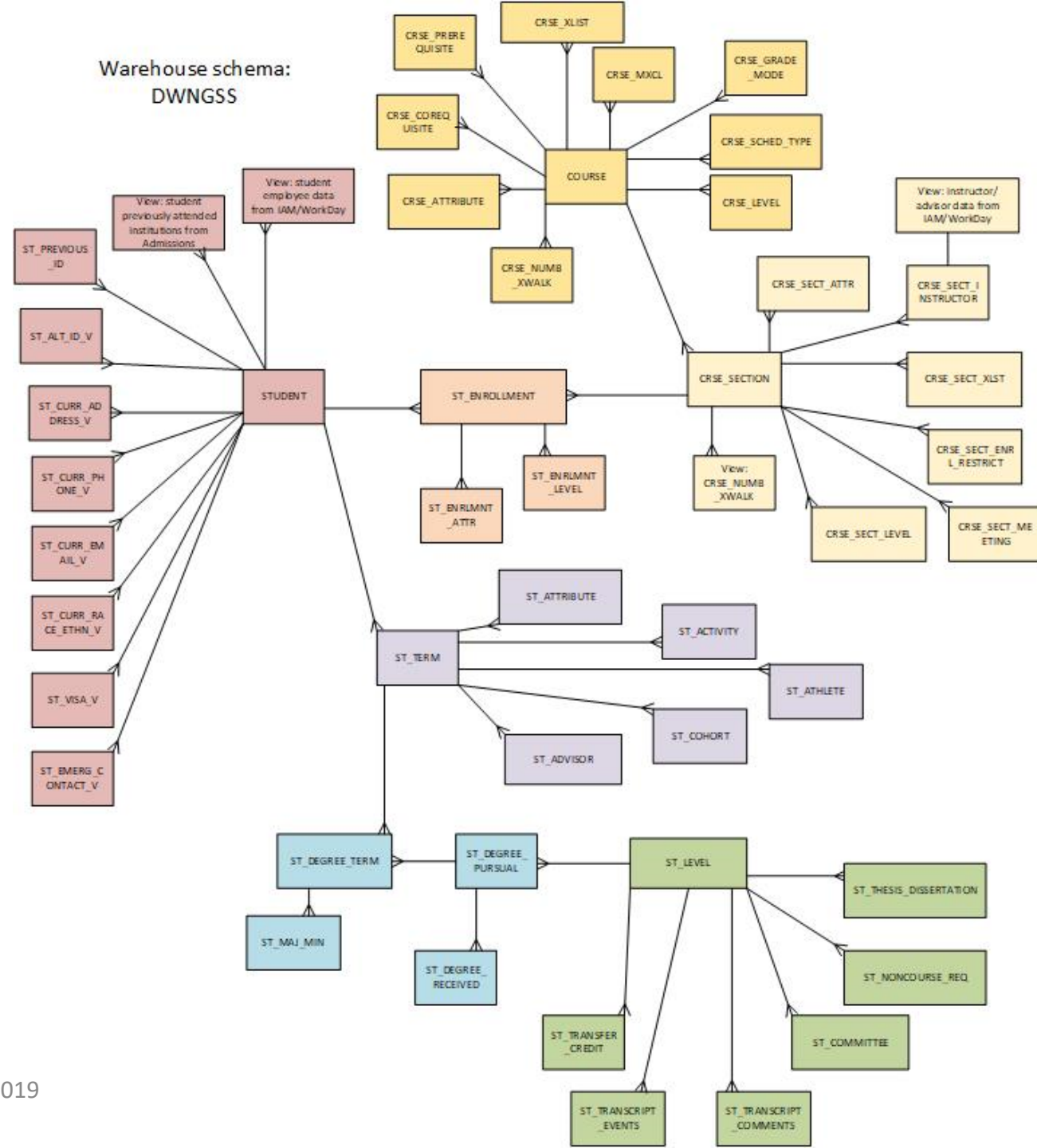| Short Description	Category	Business Purpose	Potential user-supplied parameters	R e re
Course enrollment	Enrollment	Enrollment report, with summary and detailed lists of students enrolled in specified course sections	Course, term, majors, subject area	s
List Students enrolled in		Report on students who are dual degree (multiple		

Use an existing query or rebuild from scratch?
It's up to you, but here are some suggestions:

- Start from an existing one if
  - You have not yet had the chance to become familiar with the new table and column names, and or
  - One exists that you can use, and you only have a few changes to make
- Start from scratch if
  - You are comfortable building/testing in the new environment, or
  - You have a highly customized report that is unlike any existing one

DWNGSS_PS tables and how they are related to each other

- **STUDENT (ST_*)**
- **COURSE (CRSE_*)**
  - **CRSE_SECTION (CRSE_SECT_*)**
- **ST_ENROLLMENT**
- **ST_TERM**
- **ST_DEGREE_TERM**
- **ST_LEVEL**

Warehouse schema: DWNGSS

Example 1

- If your query looks like this:

SELECT PENN_ID, TERM, SECTION_ID, REGISTERED_CREDIT, CREDIT_TYPE, STATUS

FROM DWADMIN.ENROLLMENT_ALL_V
WHERE

TERM = '2019C'

AND SUBJECT_AREA = 'ENGL'

- It will need to change to this:

SELECT PENN_ID, TERM, SECTION_ID, REGISTERED_CREDIT, CREDIT_TYPE, REG_STATUS

FROM DWNGSS_PS.ST_ENROLLMENT
WHERE

TERM = '201930'

AND SUBJECT_AREA = 'ENGL'

Example 2

- If your query looks like this:

SELECT TERM, SECTION_ID, SECTION_SCHOOL, TITLE

FROM DWADMIN.COURSE_SECTION

WHERE

(TERM like '%B'

AND COURSE_ID = 'FNAR264')

- It will need to change to this:

SELECT TERM, SECTION_ID, SECTION_SCHOOL, TITLE

FROM
DWNGSS_PS.CRSE_SECT

WHERE

(TERM like '%2%'

AND COURSE_ID = 'FNAR2640')

Example 3

- If your query looks like this:

SELECT DEGREE_TERM_ALL_V.PENN_ID, DEGREE_TERM_ALL_V.TERM, MAJOR_MINOR, MAJOR_MINOR_ORDER, JOINT_DEGREE_FLAG

FROM DWADMIN.MAJOR_MINOR_TERM, DWADMIN.DEGREE_TERM_ALL_V

WHERE

MAJOR_MINOR_TERM.PENN_ID = DEGREE_TERM_ALL_V.PENN_ID and MAJOR_MINOR_TERM.TERM = DEGREE_TERM_ALL_V.TERM

and

DEGREE_TERM_ALL_V.TERM = '2020A'

AND DEGREE_TERM_ALL_V.DIVISION = 'EAS'

AND MAJOR_MINOR_TYPE = 'M'

and DEGREE_TERM_ALL_V.JOINT_DEGREE_FLAG = 'M'

- You would probably change it to this:

SELECT ST_DEGREE_TERM.PENN_ID, ST_DEGREE_TERM.TERM, MAJOR_MINOR, MAJOR_MINOR_ORDER, PROGRAM

FROM ==DWNGSS_PS.ST_MAJOR_MINOR, DWNGSS_PS.ST_DEGREE_TERM==

WHERE

ST_MAJOR_MINOR.PENN_ID = ST_DEGREE_TERM.PENN_ID and ST_MAJOR_MINOR.TERM = ST_DEGREE_TERM.TERM

and

DEGREE_TERM_ALL_V.TERM = '==202010=='

AND DEGREE_TERM_ALL_V.DIVISION = '==EU=='

AND MAJOR_MINOR_TYPE = 'M'

and ==PROGRAM== = '==EU_BSE_MANDT=='

… <u>not a comprehensive list</u>, just some examples:

We will have documentation on the EI&A Data Warehouse website with old-to-new navigation help

If you used to look here	Now look here
PERSON_ALL_V	STUDENT
PERSON_ALL_V (for email)	ST_EMAIL
ADDRESS	ST_ADDRESS
ADDRESS (for phone numbers)	ST_PHONE
STUDENT_TERM	ST_TERM
DEGREE_TERM_ALL_V	ST_DEGREE_TERM
DEGREE_PURSUAL_ALL_V	ST_DEGREE_PURSUAL
COURSE_INVENTORY	COURSE
COURSE_SECTION	CRSE_SECTION
COURSE_SECTION_INSTRUCTOR	CRSE_SECT_INSTRUCTOR
Etc.	

Validation tables
"lookup" tables, for lists of valid code values and their descriptions
(… again, <u>not a comprehensive list</u>, just some examples):

Slightly different but very similar table names for the ones you are used to seeing:
GTV_SCHOOL
STV_DIVISION
STV_DEGREE
STV_MAJOR
Etc.

… and lots of new ones, that were not available in the legacy data collection, but will be in the Pennant Student Records:
STV_ACTIVITY
GTV_EMAIL
STV_SITE
STV_VETERAN_TYPE
Etc.

There will be cross-walks of old-to-new validation values, such as the ones for school and division

These will live in the database, and will also be available in the Business Object universe.

LEGACY_DIVISION_CODE	BANNER_DIVISION_CODE	LEGACY_SCHOOL_CODE	BANNER_SCHOOL_CODE
ASC	CM	AN	C
ASP	CP	AN	C
CGS	AL	AS	A
COL	AU	AS	A
GAS	AP	AS	A
SPC	AE	AS	A
DEN	DM	DM	D
DPH	DY	DM	D
EDG	GM	ED	G
EDP	GP	ED	G
EAS	EU	EG	E
GEN	EM	EG	E
GEP	EP	EG	E
GEX	EX	EG	E
GFA	FM	FA	F
etc….			

Help us help you

- Take a look at the list of proposed Pennant Records corporate documents
  - Do you have any reports that you use all the time, that aren't really related to anything on the list? Are they things that might have a wider audience – people other than your office or division who might be able to use it? If so, let us know: they might be potential reports for the new "library."
- Watch for invitations to workshops and office hours, and rsvp so we know who's coming.
- Send your suggestions and questions to da-staff@isc.upenn.edu

Thanks! From the Student Data reporting team:
Lourdes Brolly, Bill Branan, Mike Budischak, Susan Collins