

Troubleshooting Data Problems in the ODS and EDW



Presented by:

Seema Metikurke

John Tong

The University of Georgia

About the University of Georgia

Chartered in 1785, America's first state chartered university and birthplace of the American system of public higher education

Georgia's oldest, most comprehensive, and most diversified institution of higher education

Fall 2014 enrollment totaled 35,197, which included 26,882 undergraduates, 8,315 graduate students

Work Force: 9,874 faculty, administration, professionals, technical and clerical





About Athens

- Athens is one of the top best college towns in the nation, per U.S. News and World Report: <http://www.usnews.com/education/slideshows/10-great-college-towns/4>
- Athens is well known for its music scene, especially the hometown of R.E.M., the B-52s, the Georgia Theatre and the 40 Watt Club. (American Idol recently held auditions here)
- Athens is also a great town for foodies. Chef Hugh Acheson, owner of several Athens restaurants, is a TV personality on “Top Chef”: <http://www.bravotv.com/people/hugh-acheson>.
- And, of course, football game days. It’s Saturday in Athens: <http://photo.alumni.uga.edu/photo/detail/429006>



the B-52s





Seema Metikurke

Application Analyst Specialist

- Works with functional areas to provide data systems support
- Primary Administrator of the ODS/EDW, Argos, FormFusion, ePrint and security
- Employee at UGA for 6 years
- 13 years of development experience
- MS CS Georgia State University



John Tong

Application Analyst Principal

- Responsible for reporting and improving data quality and service with functional areas
- 20 years of Banner/Higher Education experience
- Former director of Professional Services at Evisions



Topics To be Covered

- Architecture
- Common Problems
 1. Data Missing from ODS Reporting Views
 2. Data Exists but not current
 3. Don't know what this is or where it comes from
 4. Data REALLY wrong
- Resources

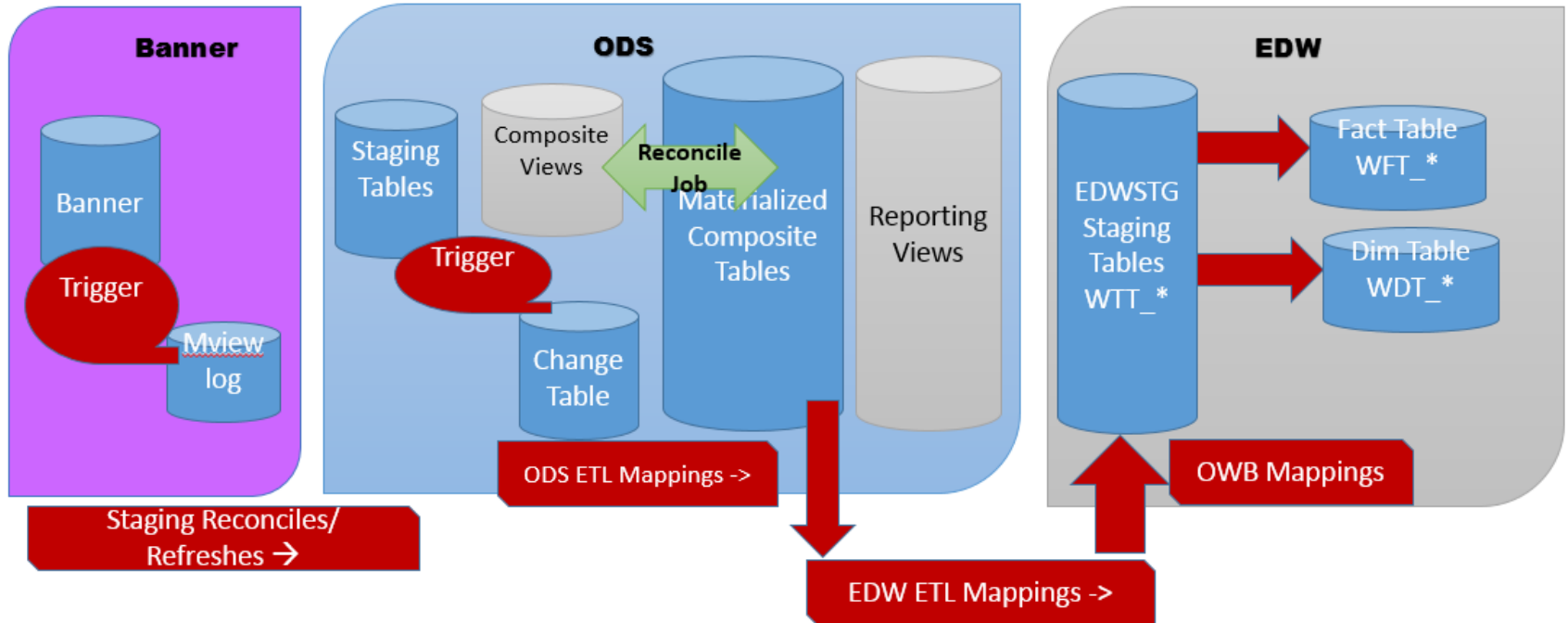


Architecture



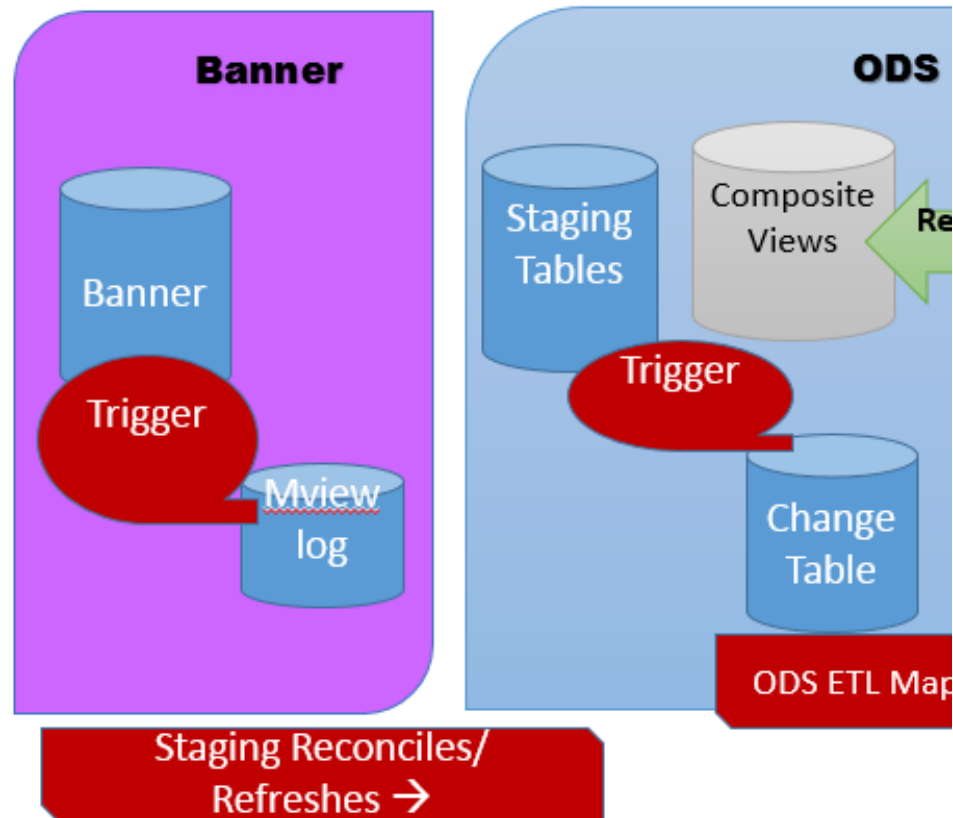


Architecture: High Level Overview



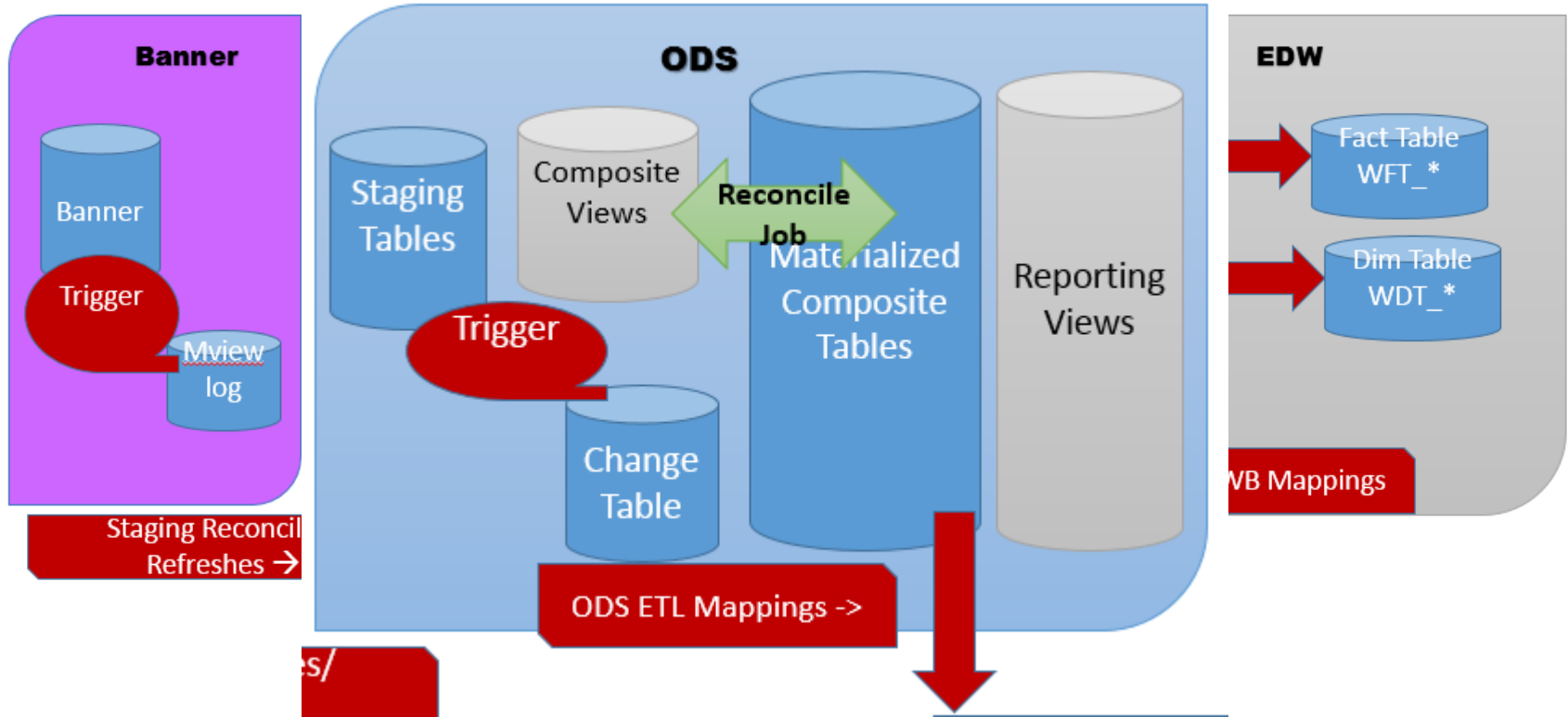


Architecture: Banner



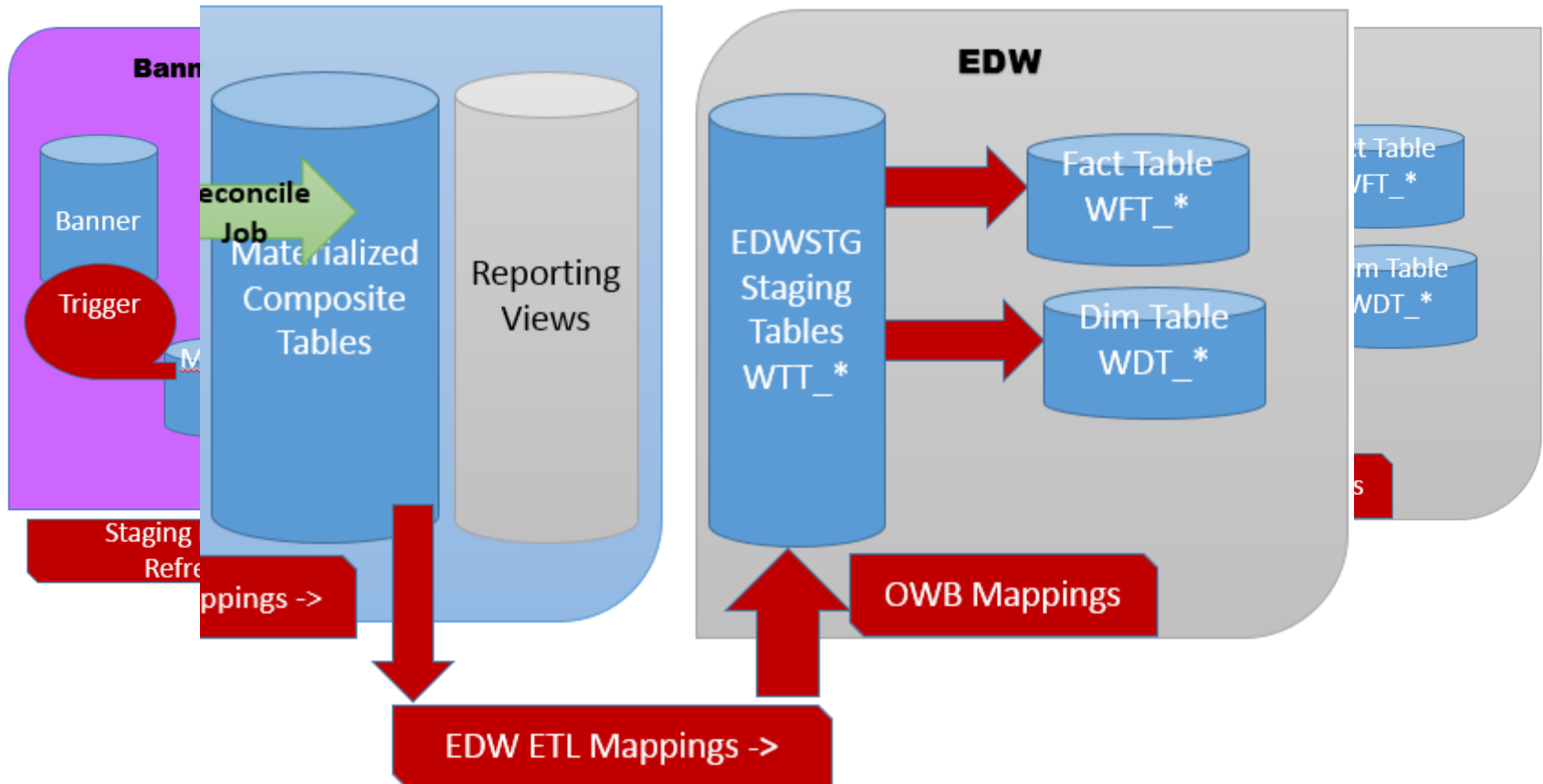


Architecture: ODS



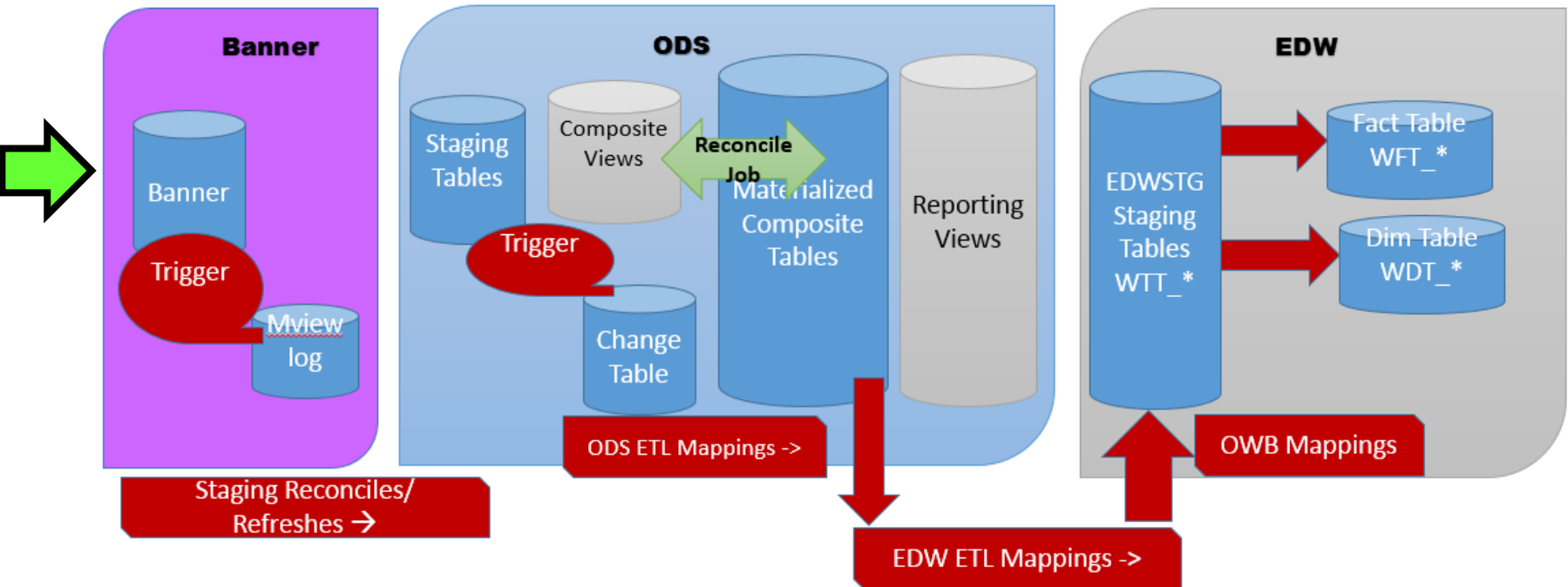


Architecture: EDW





Architecture: Highlights/Review





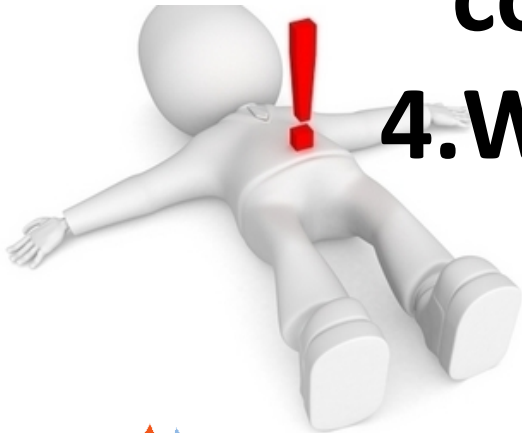
Most Common Problems

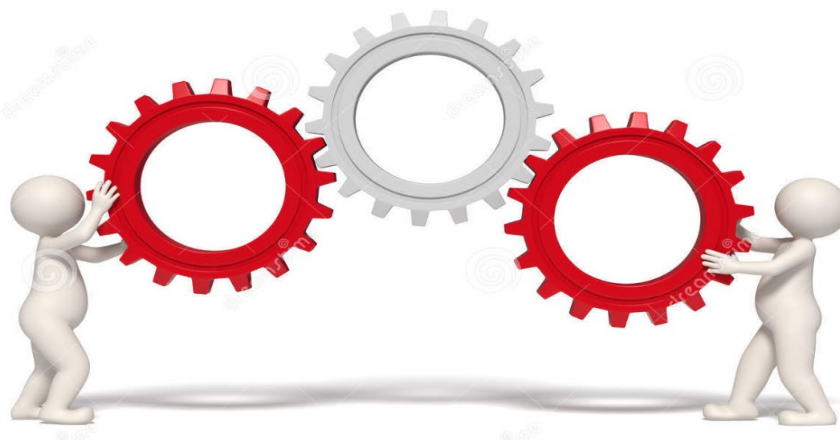
1.Data Inconsistent

2.Data 'old'

3.I don't know where this comes from, but it's WRONG.

4.What if it's STILL wrong?



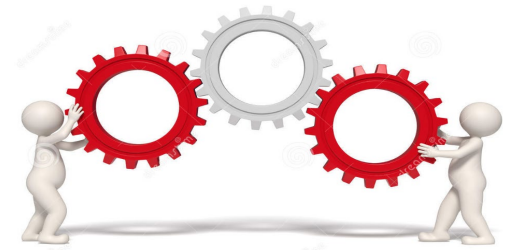


Built in Tools

- **Control Reports**
- **Health Check**
- **Reconcile Job**
- **Stage Area Status**



Control Reports



ellucian.

UGA - ODSPROD

[Preferences & Security](#) [Options](#) [Meta Data](#) [Staging](#) [New Web Tailor Administration](#)

Search

[RETURN TO OPTIONS](#) [SITE MAP](#) [HELP](#) [EXIT](#)

Select a Control Report

Click a Process in the table below to select the Control Report you want to display.

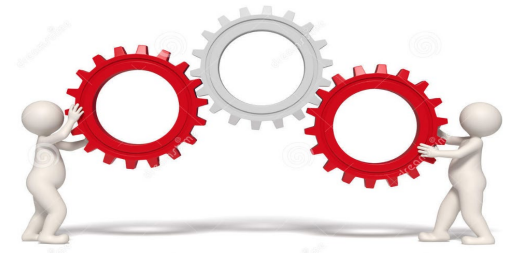
2226 reports are found, 1-100 are listed below. [Select All](#) | [Deselect All](#)

Select	Run Date <input type="checkbox"/>	Job Number	Process <input type="checkbox"/>	UserID <input type="checkbox"/>	Status <input type="checkbox"/>
<input type="checkbox"/>	Sep 10, 2015 08:00 am	19041	CHANGE_TABLE_COUNTER	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 10, 2015 07:30 am	18924	ODS_HEALTH_CHECK	SEEMAMS8	Warning
<input type="checkbox"/>	Sep 10, 2015 06:31 am	18923	RECONCILE_JOB	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 10, 2015 06:15 am	18922	STAGE_AREA_STATUS	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 10, 2015 06:01 am	18921	STAGE_AREA_STATUS	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 10, 2015 01:01 am	18920	REFRESH_ALL-P-W	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 10, 2015 12:30 am	18919	CHANGE_TABLE_COUNTER	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 09, 2015 10:00 pm	19453	REFRESH_STAGING_COLLECTIONS	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 09, 2015 08:00 am	19041	CHANGE_TABLE_COUNTER	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 09, 2015 07:30 am	18924	ODS_HEALTH_CHECK	SEEMAMS8	Warning
<input type="checkbox"/>	Sep 09, 2015 06:31 am	18923	RECONCILE_JOB	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 09, 2015 06:15 am	18922	STAGE_AREA_STATUS	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 09, 2015 06:01 am	18921	STAGE_AREA_STATUS	SEEMAMS8	Complete
<input type="checkbox"/>	Sep 09, 2015 01:01 am	18920	REFRESH_ALL-P-W	SEEMAMS8	Complete

bannerinprod01.cc.uga.edu:9170/ODSPROD/twbkwbis.P_GenMenu?name=bmenu.P_SecurityMnu 01:01 am



ODS Health Check Report



Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Options

- [Set Up Parameters](#)
Define internal parameters used by various automated processes to manage Banner ODS.
- [Schedule a Process](#)
Schedule jobs that load, update, or freeze data in the Banner ODS.
- [View Control Reports](#)
View reports that highlight job status of recently executed processes.
- [View and/or Remove Scheduled Processes](#)
View and/or remove jobs that are scheduled in the Banner ODS.
- [Freeze Data Maintenance](#)
Define lists of related Banner ODS tables or views to freeze at the same time.
- [Set Up and Maintain Cleansing Processes](#)
Set Up and Maintain Cleansing Process Rules, Elements, Values, and Defaults.
- [List Events for a Banner EDW Star](#)
View a list of which events have been loaded for one of the Banner EDW Stars.

RELEASE: BANNERODS 8.5.0 / BANNEREDW 8.4.4

Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Select a Process

Select a process to schedule.

- [Schedule Banner ODS Mappings](#)
- [Banner ODS Utilities](#)
- [Schedule Banner EDW Snapshot Mappings - Parameters](#)
- [Schedule Multiple Banner EDW Snapshots](#)
- [Schedule Banner EDW Operational Mappings - Parameters](#)
- [Banner EDW Utilities](#)
- [Freeze Multiple Banner ODS Tables/Views](#)
- [Freeze a Single Banner ODS Table/View](#)
- [Publish Meta Data Reports](#)

Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Select a Subprocess

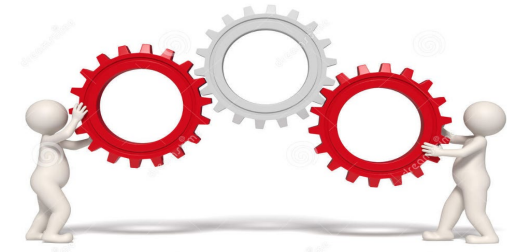
Select a subprocess to schedule.

Banner ODS Utilities

- [Report Source Change Table Counts](#)
- [Add Comments To Reporting Views](#)
- [Add Comments to a SINGLE Reporting View](#)
- [Banner ODS Checks and Balances](#)
- [Reconcile a Single Table](#)
- [Transfer Banner Fine-Grained Access](#)
- [Cleanup Reconcile Tables](#)
- [Reconcile a Group of Tables](#)
- [Reconcile Multiple Tables](#)
- [Create Materialized Views](#)
- [Maintain Materialized Views](#)



Reconcile Job Report



Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Options

- [Set Up Parameters](#)
Define internal parameters used by various automated processes to manage data.
- [Schedule a Process](#)
Schedule jobs that load, update, or freeze data in the Banner ODS.
- [View Control Reports](#)
View reports that highlight job status of recently executed processes.
- [View and/or Remove Scheduled Processes](#)
View and/or remove jobs that are scheduled in the system.
- [Freeze Data Maintenance](#)
Define lists of related Banner ODS tables or views to freeze at the same time.
- [Set Up and Maintain Cleansing Processes](#)
Set Up and Maintain Cleansing Process Rules, Elements, Values, and Defaults.
- [List Events for a Banner EDW Star](#)
View a list of which events have been loaded for one of the Banner EDW Stars.

RELEASE: BANNERODS 8.5.0 / BANNEREDW 8.4.4

Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Select a Process

Select a process to schedule.

- [Schedule Banner ODS Mappings](#)
- [Banner ODS Utilities](#)
- [Schedule Banner EDW Snapshot Mappings - Parameters](#)
- [Schedule Multiple Banner EDW Snapshots](#)
- [Schedule Banner EDW Operational Mappings - Parameters](#)
- [Banner EDW Utilities](#)
- [Freeze Multiple Banner ODS Tables/Views](#)
- [Freeze a Single Banner ODS Table/View](#)
- [Publish Meta Data Reports](#)

Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Select a Subprocess

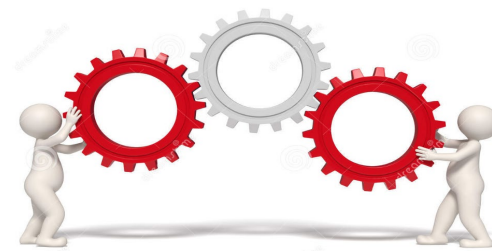
Select a subprocess to schedule.

Banner ODS Utilities

- [Report Source Change Table Counts](#)
- [Add Comments To Reporting Views](#)
- [Add Comments to a SINGLE Reporting View](#)
- [Banner ODS Checks and Balances](#)
- [Reconcile a Single Table](#)
- [Transfer Banner Fine-Grained Access](#)
- [Cleanup Reconcile Tables](#)
- [Reconcile a Group of Tables](#)
- [Reconcile Multiple Tables](#)
- [Create Materialized Views](#)
- [Maintain Materialized Views](#)



Stage Area Status Report



Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Options

[Set Up Parameters](#)
Define internal parameters used by various automated processes to maintain the Banner ODS.

[Schedule a Process](#)
Schedule jobs that load, update, or freeze data in the Banner ODS.

[View Control Reports](#)
View reports that highlight job status of recently executed processes.

[View and/or Remove Scheduled Processes](#)
View and/or remove jobs that are scheduled in the job queue but not yet run.

[Freeze Data Maintenance](#)
Define lists of related Banner ODS tables or views to freeze at the same time.

[Set Up and Maintain Cleansing Processes](#)
Set Up and Maintain Cleansing Process Rules, Elements, Values,

[List Events for a Banner EDW Star](#)
View a list of which events have been loaded for one of the Banner EDW Star

RELEASE: BANNERODS 8.5.0 /BANNEREDW 8.4.4

Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

Staging

[Maintain Stage Tables](#)
Add or remove tables from the Banner ODS staging area.

[Report Staging Area Status](#)
View a list of staged tables, the status of processes, and the details of any staging errors or issues.

[Refresh Staging Collections](#)
Refresh a list of staging collections.

[Refresh Staging Tables](#)
Refresh a list of staging tables.

[Reconcile Stage Tables](#)
Reconcile Stage tables by schema or table name.

RELEASE: BANNERODS 8.5.0 /BANNEREDW 8.4.4



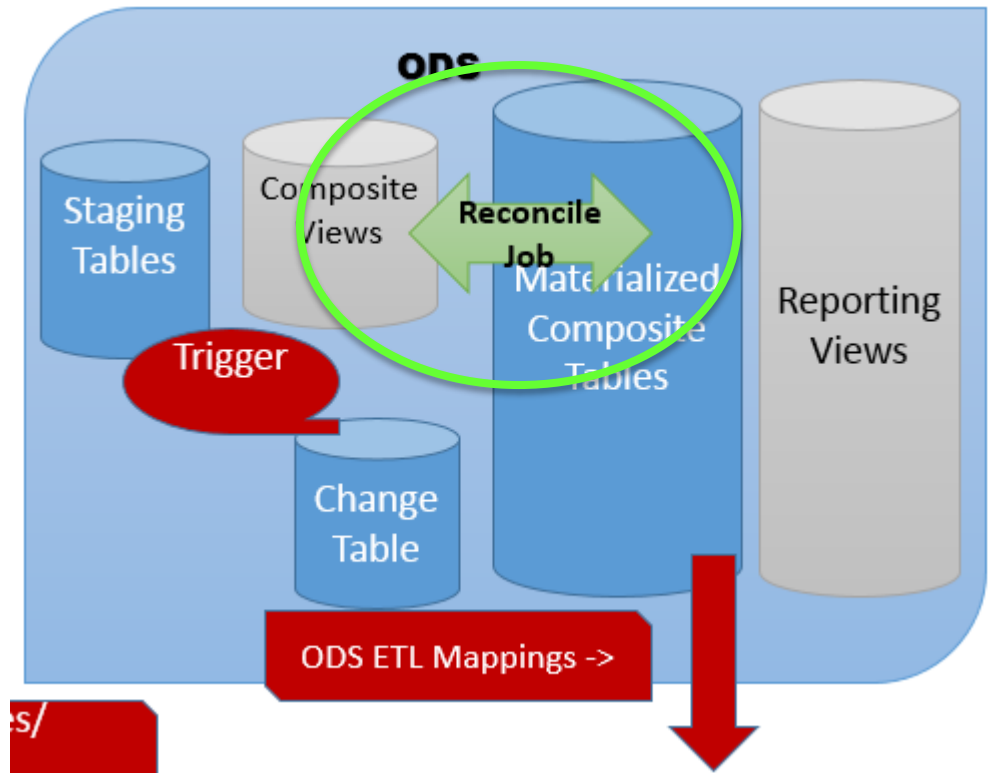
1: Discrepancies

**Problem: Numbers reported as ‘incorrect’ from users.
Discrepancies listed in Reconcile Job.**

Degree Works	Discrepancy: LOAD_MDT_PLAN_TEMPLATE_CRSE has 219 discrepancies. - (only the first 25 displayed).
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B00030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B02030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B08030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B0E030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B0F030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B7C030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B7D030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3B82030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3BFF030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C77030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C83030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C87030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C88030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C8A030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C8D030DE0531E8D11ACAF06.
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C90030DE0531E8D11ACAF06.



1:Reconcile Job





1: Reconcile Job (Continued)

Note: Reconcile only works on 1:1 Mappings

Student	Note: LOAD_MST_GENRL_STDNT_STEP_1 ignored based on RECONCILE LOGIC parameter entry.
Student	Note: LOAD_MST_GENRL_STDNT_STEP_2 ignored based on RECONCILE LOGIC parameter entry.





1: Causes and Solutions

Caused by active changes going on in the Database DURING the Fast Refresh. Scheduled jobs/processes making large number of updates.

- Try to identify the processing that is happening and shift those times.
- These will clear themselves the NEXT refresh. Provided the processing isn't actively happening during refresh again.



2: Data 'old'

AKA Banner Says X while ODS shows Y

PROBLEM

Data in Banner doesn't match Data in the ODS/EDW. Data might have JUST been entered, or may be over a day old.





2: Data ‘old’

“What time is your refresh?”



2: Data 'old'

Select a Control Report

ellucian.

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Preferences & Security Options Meta Data Staging New Web Tailor Administration

Search Go

RETURN TO OPTIONS SITE MAP HELP

Select a Control Report

Click a Process in the table below to select the Control Report you want to display. Refresh Job Status Co

2178 reports are found, 1-100 are listed below. Select All | Deselect All

Select	Run Date	Job Number	Process	UserID	Status
<input type="checkbox"/>	Sep 04, 2015 08:00 am	10931	CHANGE_TABLE_COUNTER	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 04, 2015 07:33 am	9866	ODS_HEALTH_CHECK	SEEMAMS8	Warning
<input type="checkbox"/>	Sep 04, 2015 06:33 am	9865	RECONCILE_JOB	SEEMAMS8	Warning
<input type="checkbox"/>	Sep 04, 2015 06:18 am	9864	STAGE_AREA_STATUS	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 04, 2015 06:04 am	9863	STAGE_AREA_STATUS	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 04, 2015 01:04 am	9862	REFRESH_ALL-P-W	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 04, 2015 12:30 am	10621	CHANGE_TABLE_COUNTER	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 03, 2015 10:00 pm	10620	REFRESH_STAGING_COLLECTIONS	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 03, 2015 08:00 am	10931	CHANGE_TABLE_COUNTER	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 03, 2015 07:33 am	9866	ODS_HEALTH_CHECK	SEEMAMS8	Warning
<input type="checkbox"/>	Sep 03, 2015 06:33 am	9865	RECONCILE_JOB	SEEMAMS8	Warning
<input type="checkbox"/>	Sep 03, 2015 06:18 am	9864	STAGE_AREA_STATUS	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 03, 2015 06:04 am	9863	STAGE_AREA_STATUS	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 03, 2015 01:04 am	9862	REFRESH_ALL-P-W	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 03, 2015 12:30 am	10621	CHANGE_TABLE_COUNTER	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 02, 2015 10:00 pm	10620	REFRESH_STAGING_COLLECTIONS	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 02, 2015 08:00 am	10931	CHANGE_TABLE_COUNTER	SEEMAMS8	Comple
<input type="checkbox"/>	Sep 02, 2015 07:33 am	9866	ODS_HEALTH_CHECK	SEEMAMS8	Warning

Display a Control Report

bannerinbprod01.cc.uga.edu:9170/ODSPROD/mgkrcpt.P_ViewReport?rowParm=10621_04-SEP-2015:00:30:56&value_str=

Mapping: LOAD_MST_FACULTY_CONTRACT - Change Table: SIRFCHG - Rows: 0
Mapping: LOAD_MST_FACULTY_DEPART_COLL - Change Table: SIRFCHG - Rows: 2
Mapping: LOAD_MST_FACULTY_FEEDBACK - Change Table: SFBKCHG - Rows: 0
Mapping: LOAD_MST_FACULTY_FEED_DETAIL - Change Table: SFBDCCHG - Rows: 0
Mapping: LOAD_MST_FIELD_OF_STUDY - Change Table: SGRPCHG - Rows: 415
Mapping: LOAD_MST_GENRL_STDNT_STEP_1 - Change Table: SGRPCHG - Rows: 56658
Mapping: LOAD_MST_GPA - Change Table: SHRGCHG - Rows: 99
Mapping: LOAD_MST_GPA - Change Table: SHRGCHG - Rows: 494
Mapping: LOAD_MST_HOLD - Change Table: SPRPCHG - Rows: 777
Mapping: LOAD_MST_INSTITUTION - Change Table: SORICHG - Rows: 0
Mapping: LOAD_MST_INSTRUCTIONAL_ASSIGN - Change Table: SIRFCHG - Rows: 369
Mapping: LOAD_MST_INST_CHARACTERISTIC - Change Table: SORICHG - Rows: 0
Mapping: LOAD_MST_INST_DEMOGRAPHIC - Change Table: SORICHG - Rows: 0
Mapping: LOAD_MST_INTEREST - Change Table: SPRPCHG - Rows: 75
Mapping: LOAD_MST_MEAL_ASSIGNMENT - Change Table: SLRMCHG - Rows: 0
Mapping: LOAD_MST_MEDICAL_INFORMATION - Change Table: SPRPCHG - Rows: 0
Mapping: LOAD_MST_MEETING_TIME - Change Table: SSROCHG - Rows: 645
Mapping: LOAD_MST_NONINSTRUCT_ASSIGN - Change Table: SIRFCHG - Rows: 0
Mapping: LOAD_MST_OFFERING_COREQ - Change Table: SSROCHG - Rows: 304
Mapping: LOAD_MST_OFFERING_GRADE_MODE - Change Table: SCRACHG - Rows: 0
Mapping: LOAD_MST_OFFERING_PREREQ - Change Table: SSROCHG - Rows: 304
Mapping: LOAD_MST_ORGANIZATION_ENTITY - Change Table: SOROCHG - Rows: 278
Mapping: LOAD_MST_OUTCOME_HONOR - Change Table: SHRDCHG - Rows: 44
Mapping: LOAD_MST_OUTCOME_HONOR - Change Table: SHRDCHG - Rows: 44
Mapping: LOAD_MST_PERSON - Change Table: SPRPCHG - Rows: 299
Mapping: LOAD_MST_PHONE_ASSIGNMENT - Change Table: SLRPCHG - Rows: 0
Mapping: LOAD_MST_PREVIOUS_DEGREE - Change Table: SPRPCHG - Rows: 53
Mapping: LOAD_MST_PREVIOUS_EDUCATION - Change Table: SPRPCHG - Rows: 245
Mapping: LOAD_MST_PREVIOUS_EDUCATION - Change Table: SPRPCHG - Rows: 112
Mapping: LOAD_MST_PRE_STUDENT - Change Table: SPRPCHG - Rows: 333

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Problem 2B: How to fix

Problem with refresh last night

ODS Health Check Control Report: Missing Trigger

	Running: MGKJLIB.P_CHECKTRIGGERS
CHECK_TRIGGERS	WARNING: Trigger ST_SFBETRM_INSERT_ODS_CHANGE is missing on table SATURN.SFBETRM
	Process completed with warnings at 13-DEC-2014 07:30:35
	End of Report

ODS Health Check Control Report: Invalid Trigger

	Running: MGKJLIB.P_CHECKTRIGGERS
CHECK_TRIGGERS	WARNING: Trigger DT_DRESCLS_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.DAP_RESCLASS_DTL
CHECK_TRIGGERS	WARNING: Trigger DT_SPLNCLS_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.SEP_PLAN_CLASS
CHECK_TRIGGERS	WARNING: Trigger DT_SPLNGRP_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.SEP_PLAN_GROUP
CHECK_TRIGGERS	WARNING: Trigger DT_SPLNTRM_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.SEP_PLAN_TERM
CHECK_TRIGGERS	WARNING: Trigger DT_STPLCLS_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.SEP_TMPL_CLASS
CHECK_TRIGGERS	WARNING: Trigger DT_STPLGRP_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.SEP_TMPL_GROUP
CHECK_TRIGGERS	WARNING: Trigger DT_STPLMST_INSERT_ODS_CHANGE is INVALID on table DWSHEMA.SEP_TMPL_MST

ODS Health Check Control Report: Invalid Package

CHECK_MAPS_ODS	Error: LOAD_MRT_APPLICANT_NEED is INVALID in the database. (Next error)
CHECK_MAPS_ODS	Error: LOAD_MRT_APPLICANT_NEED is INVALID in the database. (Next error)
CHECK_MAPS_ODS	Error: LOAD_MRT_APPLICANT_NEED is INVALID in the database. (Next error)
CHECK_MAPS_ODS	Error: LOAD_MRT_APPLICANT_NEED is INVALID in the database. (Next error)



Problem 2B: How to fix

Invalid Trigger as seen in SQL Developer

The screenshot shows the Oracle SQL Developer interface. The 'Triggers' pane on the left lists several triggers, each with a red 'X' icon indicating an error. A green arrow points to the 'DT_DRESCLS_INSERT_ODS_CHANGE' trigger. The main editor window shows the SQL code for this trigger, which includes a cursor and a loop structure. The 'Messages - Log' pane at the bottom shows the status 'Compiled'.

Triggers list:

- DT_DREQMST_INSERT_ODS_CHANGE
- DT_DRESCLS_INSERT_ODS_CHANGE
- DT_DRESDTL_INSERT_ODS_CHANGE
- DT_DRESNCR_INSERT_ODS_CHANGE
- DT_SEPPLAN_INSERT_ODS_CHANGE
- DT_SPLNCLS_INSERT_ODS_CHANGE
- DT_SPLNGRP_INSERT_ODS_CHANGE
- DT_SPLNTRM_INSERT_ODS_CHANGE
- DT_STPLCLS_INSERT_ODS_CHANGE
- DT_STPLGRP_INSERT_ODS_CHANGE
- DT_STPLMST_INSERT_ODS_CHANGE

SQL Code:

```
12 FOR EACH ROW
13 DECLARE
14 PRAGMA AUTONOMOUS_TRANSACTION;
15 --
16 CURSOR C_GET_STDNT_CRSE (pid VARCHAR2, paudtype VARCHAR2, pschool VARCHAR2, pdegree V
17 SELECT UNIQUE_ID
18 FROM DAP_RESULT_DTL
19 WHERE DAP_STU_ID != DAP_REQ_ID
```



Problem 2B: How to fix

REFRESH_ALL-P-W process Error Message

	Running ETL Package: MGKMAP.P_REFRESHSTAGINGMVIEWS
MGKMAP.P_REFRESHSTAGINGMVIEWS	Running: MGKMAP.P_REFRESHSTAGINGMVIEWS('REFRESH_DEGREEWORKS')
MGKMAP.P_REFRESHSTAGINGMVIEWS	Refreshing Staging Refresh Group ODS_REFGROUP_DWSHEMA at: 24-AUG-2015 01:53:53
MGKMAP.P_REFRESHSTAGINGMVIEWS	Refreshing Staging Refresh Group (1/1) ODS_REFGROUP_DWSHEMA at: 24-AUG-2015 01:53:53
	ERROR Refreshing Stage Group: ODS_REFGROUP_DWSHEMA (Next error)
	ORA-12048: error encountered while refreshing materialized view "DWSHEMA"."SEP_PLAN_CLASS" ORA-12034: materialized view log on "DWSHEMA"."SEP_PLAN_CLASS" younger than last refresh (Next error)
	ORA-06512: at "SYS.DBMS_SNAPSHOT", line 2563 ORA-06512: at "SYS.DBMS_SNAPSHOT", line 2776 ORA-06512: at "SYS.DBMS_IREFRESH", line 685 ORA-06512: at "SYS.DBMS_REFRESH", line 195 ORA-06512: at
	"ODSSTG.MGKSTGU", line 1811
	Stage Group NOT Refreshed: ODS_REFGROUP_DWSHEMA
	Refreshed 1 Staging Refresh Groups in 1 minutes.
	ETL Package completed at: 24-AUG-2015 01:55:13

RECONCILE_STAGE_TABLE control report

P_RECONCILE_STAGE	Running Parallel Job (P_STAGE_SEP_PLAN_CLASS) in CR:9673308
(P)> P_STAGE_SEP_PLAN_CLASS	Start of Process at 24-AUG-2015 09:44:58
(P)> P_STAGE_MVIEW	Staging source tables as materialized views at 24-AUG-2015 09:44:58
(P)> P_STAGE_MVIEW	Finding tables to stage
(P)> P_STAGE_MVIEW	Saving table triggers
(P)> P_STAGE_MVIEW	Saving table grants
(P)> P_STAGE_MVIEW	Dropping materialized view logs
(P)> P_STAGE_MVIEW	Dropping materialized views
(P)> P_STAGE_MVIEW	Creating materialized view logs at 24-AUG-2015 09:45:03
(P)> P_STAGE_MVIEW	Creating materialized view logs completed at 24-AUG-2015 09:45:03
(P)> P_STAGE_MVIEW	Creating materialized views at 24-AUG-2015 09:45:03
(P)> P_STAGE_MVIEW	Creating materialized view DWSHEMA.SEP_PLAN_CLASS at 24-AUG-2015 09:45:03
(P)> P_STAGE_MVIEW	Mview: DWSHEMA.SEP_PLAN_CLASS added to Refresh Group: ODS_REFGROUP_DWSHEMA
(P)> P_STAGE_MVIEW	Creating materialized views completed at 24-AUG-2015 09:45:08
(P)> P_STAGE_MVIEW	Restoring table triggers
(P)> P_STAGE_MVIEW	Creating synonyms
(P)> P_STAGE_MVIEW	Source tables successfully staged.
(P)> P_STAGE_MVIEW	Process completed successfully at 24-AUG-2015 09:45:08

RECONCILE_STAGE_TABLE control report guiding to run sub-process

The following mappings are now included in a new job that can be scheduled:
LOAD_MDT_AUDIT_STUDENT_CRSE
LOAD_MDT_AUDIT_STUDENT_BLOCK
LOAD_MDT_AUDIT_STDN_NON_CRSE
LOAD_MDT_REGISTRATION_PLAN
LOAD_MDT_REGIST_PLAN_CRSE
LOAD_MDT_PLAN_TEMPLATE_CRSE
REFRESH_VALIDATION
New job "Load for Recently Restaged Tables" created under the menu "Schedule a Process -> Schedule Banner ODS Mappings", this job will execute 7 mappings.
Process completed successfully at 24-AUG-2015 09:55:19



Problem 2: Summary

- What time is your refresh?
 - Wait for it!
 - Refresh now (Warning)
- Errors

CHECK THE :



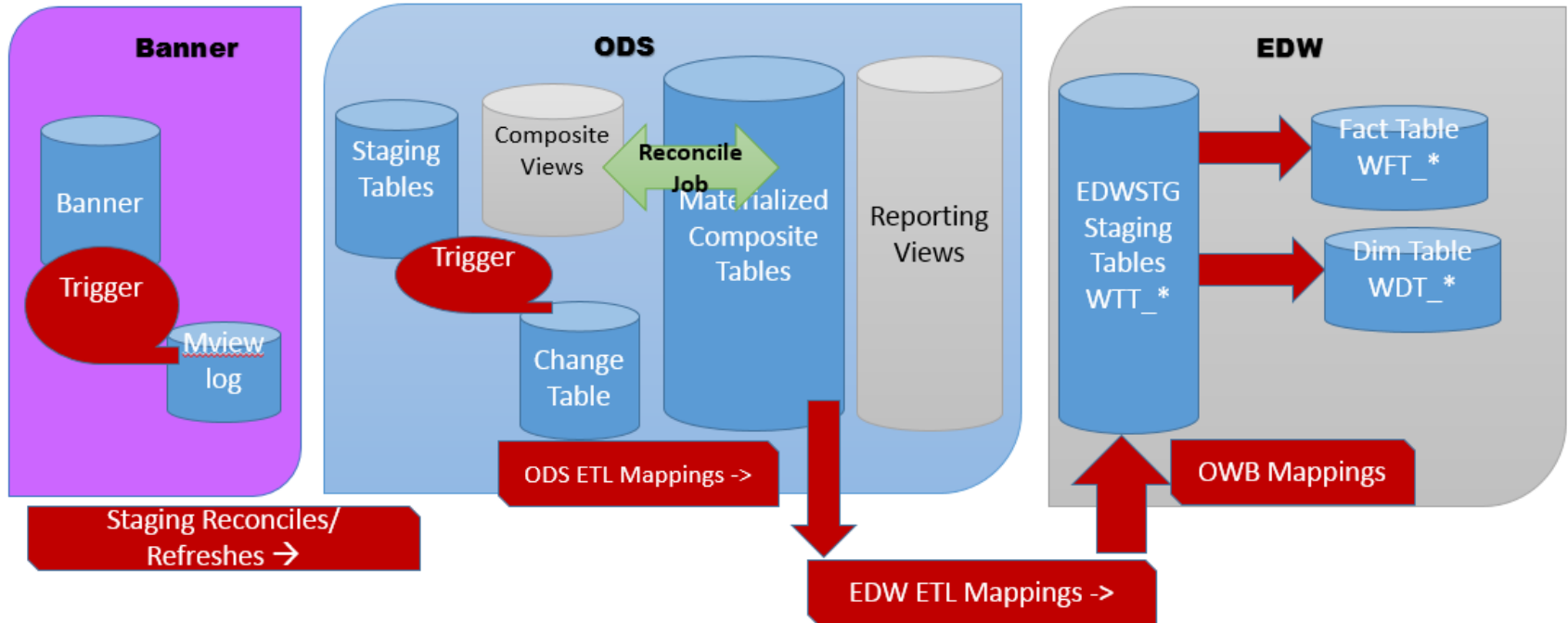


3: 'I don't know where this comes from.'



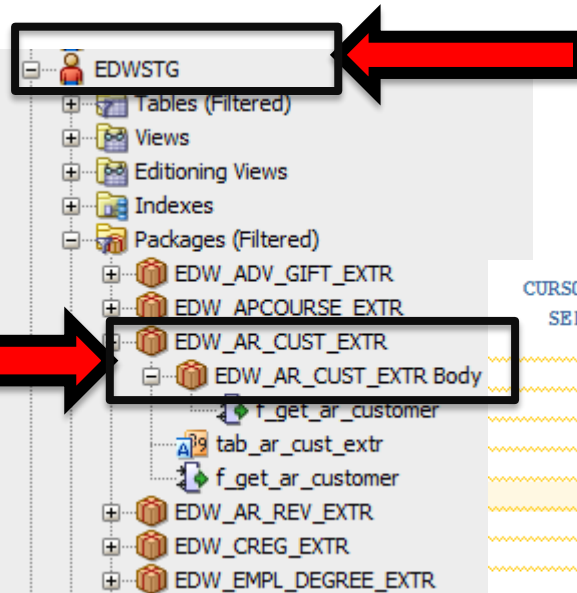


Problem 3: ODS/EDW





Problem 3: EDW



```
CURSOR get_ar_cust_pop(multi_src in VARCHAR2) IS
SELECT NVL(RAD.MIF_VALUE, mif_cleansse value) multi_source,
       NVL(RAD.MIF_DESC, mif_cleansse value) multi_source_sd,
       RAD.ZONE VALUE zone value,
       RAD.DOMAIN VALUE domain value,
       RAD.ACADEMIC YEAR academic year,
       RAD.ACADEMIC PERIOD academic period,
       RAD.SUB_ACADEMIC PERIOD sub academic period,
       RAD.DETAIL CODE detail_code,
       RAD.CATEGORY category,
       TRUNC(SYSDATE) - TRUNC(NVL(RAD.BILL DATE, SYSDATE)) bill date aging,
       TRUNC(SYSDATE) - TRUNC(RAD.EFFECTIVE DATE) effective date aging,
       RA.DELINQUENCY delinquency,
       RA.NSF COUNTER nsf count,
       DECODE(SIGN(RA.COLLECTION COUNT),1,'Y','N') collection ind,
       RAD.ACCOUNT UID customer uid,
       NVL(WE.WAREHOUSE ENTITY UID,0) warehouse entity uid,
       SUM(RAD.BALANCE) balance,
       SUM(DECODE(RAD.DETAIL CODE TYPE,'C',RAD.AMOUNT,0) -
            DECODE(RAD.DETAIL CODE TYPE,'P',RAD.AMOUNT,0)) amount due
FROM WDT_WAREHOUSE_ENTITY WE, MIT_ACCOUNT RA, MIT_ACCOUNT_DETAIL RAD
```



Problem 3: ODS

ODSMGR Student Reporting View – SQL View Creation Script

The image displays two screenshots of the SQL Developer interface, showing the creation of the ODSMGR Student Reporting View. The left screenshot shows the initial script, and the right screenshot shows the script with a red arrow pointing to a specific line.

Left Screenshot (Initial Script):

```
1 |
2 | CREATE OR REPLACE FORCE VIEW "ODSMGR"."STUDENT" ("PERSON_UID", "ID", "NAME", "ACADEMIC_YEAR", "ACADEMIC_YEAR_DESC", "AID_YEAR", "AID_YEAR_DESC", "AID_ENROLLMENT_PERIOD")
3 |
4 | SELECT
5 | X.PERSON_UID,
6 | P.ID_NUMBER,
7 | P.FULL_NAME_LFMI,
8 | X.ACADEMIC_YEAR,
9 | X.ACADEMIC_YEAR_DESC,
10 | SUBSTR(MRKFUNC.F_GET_AID_ENROLL_PERIOD(X.PERSON_UID, X.ACADEMIC_YEAR), 1, 255),
11 | SUBSTR(MRKFUNC.F_GET_AID_ENROLL_PERIOD(X.PERSON_UID, X.ACADEMIC_YEAR), 1, 255),
12 | SUBSTR(MRKFUNC.F_GET_AID_ENROLL_PERIOD(X.PERSON_UID, X.ACADEMIC_YEAR), 1, 255),
13 | X.ACADEMIC_PERIOD,
14 | X.ACADEMIC_PERIOD_DESC,
15 | X.SUB_ACADEMIC_PERIOD,
16 | X.SUB_ACADEMIC_PERIOD_DESC,
17 | X.STUDENT_STATUS,
18 | X.STUDENT_STATUS_DESC,
19 | E.ENROLLED_IND,
20 | E.REGISTERED_IND,
21 | X.STUDENT_RESIDENCY,
22 | X.STUDENT_RESIDENCY_DESC,
23 | X.EDUCATION_LEVEL,
24 | X.EDUCATION_LEVEL_DESC,
25 | X.TRANSFER_CENTER,
```

Right Screenshot (Script with Red Arrow):

```
152 | 'R', G6_NLS.GET('MSVSTDN-0002', 'SQL', 'Revised Grade Mailer Pending'),
153 | 'N', G6_NLS.GET('MSVSTDN-0003', 'SQL', 'New Record')), 1, 255),
154 | E.RECORD_STATUS_DATE,
155 | E.GRADE_MAILING_DATE,
156 | E.GRADE_MAILER_CHG_DATE,
157 | E.GRADE_MAILER_DUP,
158 | E.GRADE_MAILER_DUP_DATE,
159 | E.ACADEMIC_HISTORY_EXISTS_IND,
160 | E.ENROLLMENT_EXISTS_IND,
161 | X.OUTCOME_NUMBER,
162 | X.MIF_VALUE,
163 | X.MIF_DESC,
164 | X.ZONE_VALUE,
165 | X.DOMAIN_VALUE,
166 | FROM MST_ENROLLMENT E,
167 | MST_PERSON P,
168 | MST_GENERAL_STUDENT X,
169 | MST_VETERAN_CERTIFICATION V
170 | WHERE X.PRIMARY_PROGRAM_IND = 'Y'
171 | AND E.PERSON_UID = X.PERSON_UID
172 | AND E.PERSON_UID (+) = X.PERSON_UID
173 | AND E.ACADEMIC_PERIOD (+) = X.ACADEMIC_PERIOD
174 | AND V.PERSON_UID (+) = X.PERSON_UID
175 | AND V.ACADEMIC_PERIOD (+) = X.ACADEMIC_PERIOD;
176 |
```

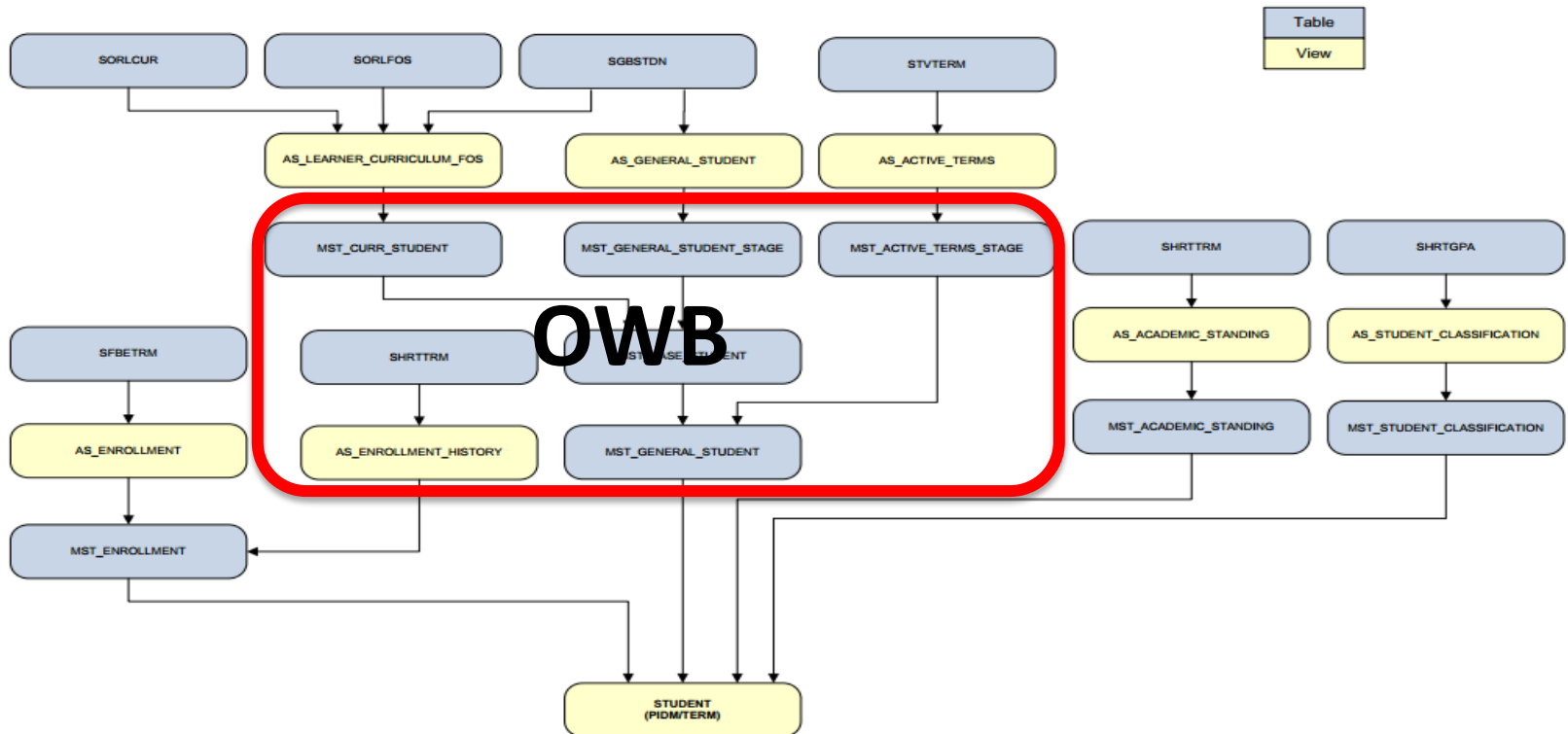
The red arrow points to line 165, which is the line that defines the domain value for the view.



Problem 3: ODS

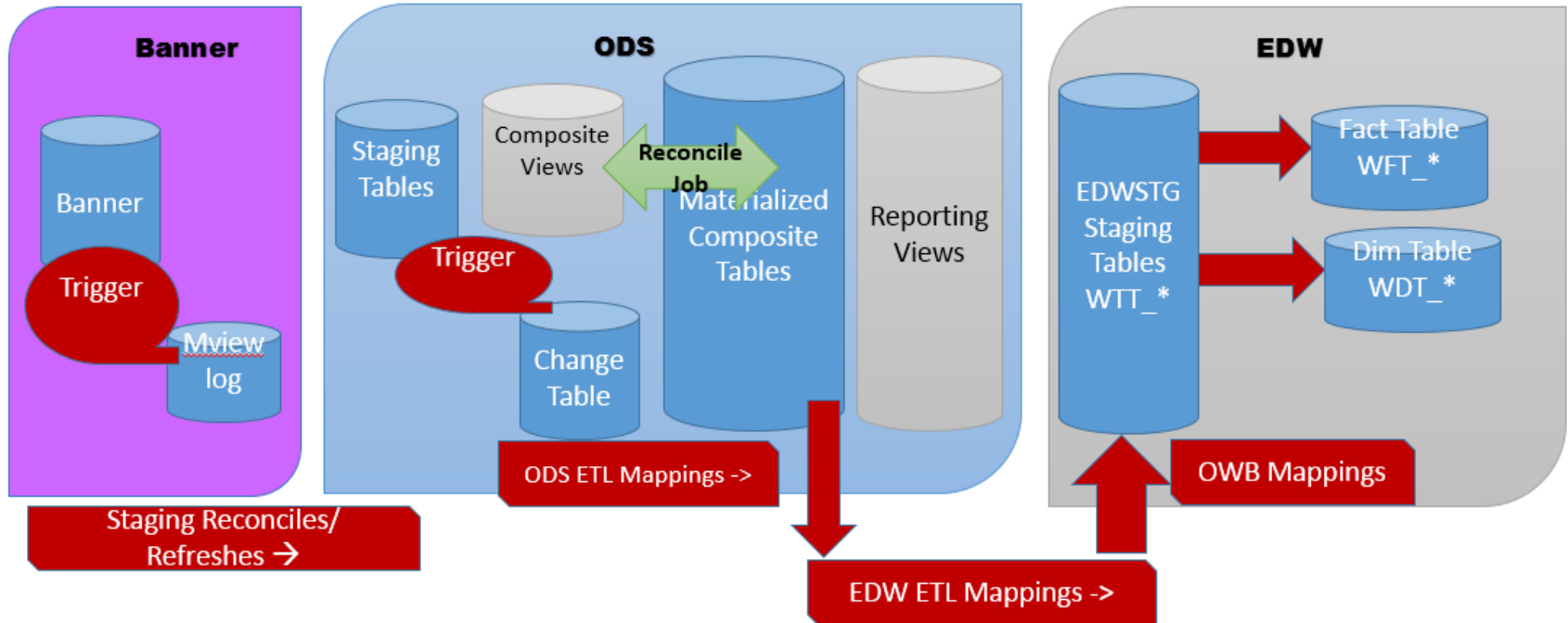
Banner ODS 8.5 Administration Guide page 108

Student reporting view flow





Problem 3: Summary





4: Still Wrong?





4: Still Wrong?

Case History
Case Number: 01231798

Short Comments Print Close

▼ Case Information

Case Number	01231798	Status	Change Request Closed
Legacy Case Number		Sub-Status	Defect
Priority	3		
Full Hierarchy	Cross Product - Operational Data Store Oracle - ODS Student Functionality		
Product Version	8.4.1		
Object/Process	The problem is with the ODS Reporting View Academic_Study and the problem fields are Academic_standing_end and Deans_list_value		
Subject	Problem with Academic_Study reporting view		
Description	<p>The problem is with the ODS table Academic_Study and the fields are ACADEMIC_STANDING_END and DEANS_LIST_VALUE.</p> <p>We are seeing that the ACADEMIC_STANDING_END standing is the same as the Academic_STANDING at the start of the term. Academic Standing at the end of the term is not matching the value in SHRTTRM_ASTD_CODE_END_OF_TERM field for the same term in SHRTTRM.</p> <p>For example SHRTTRM shows the following as the End of Term standings:</p> <p>TERM Standing 201401 GS Good Standing 201402 P1 Probation 201403 P2 Continued Probation 201404 D1 Dismissal</p> <p>ODS.Academic_STUDY will show:</p> <p>Term Academic_Standing Academic_Standing_End 201401 00 Good Standing 00 Good Standing (assume 00 is shown when it can't find a record) 201402 GS Good Standing GS Good Standing 201403 P1 Probation P1 Probation 201404 P2 Continued Probation P2 Continued Probation</p> <p>As you can see, it is showing the same information as the Academic Standing (start of term), and that it's one term 'behind' from the current one in SHRTTRM.</p> <p>Similarly, Academic_Study.Deans_list_value field is off by one term. It is showing status of a student as they go into the term, not the end of term as you are probably expecting. Academic_Study.Deans_list_value at the end of the term does not match the value in SHRTTRM.SHRTTRM_ASTD_CODE_DL field value for the same term.</p> <p>Is this already reported, and is there a work around, or proper fix yet?</p> <p>Thanks, Seema</p>		

Resolution Summary Applied CR-000108186 fix to ODS 8.4.1



Resources





Resources: Support

<https://ellucian.okta.com>

The screenshot shows the Ellucian Support Center interface. A yellow arrow points to the 'Quick Links' menu on the left. The menu includes the following items:

- > Create New Case
- > Create New Idea
- > Filter Ideas
- > My Followed Items
- > Interactive Banner Compatibility Guide
- > Maintenance Advantage
- Program Client Guide
- > Colleague & Recruiter: Certifications and Cessations
- > Quercus Documentation

The main content area features a search bar and a 'Search Tips' section. The 'Search Tips' section includes the following text:

Search Tips
Use Global Search to search across all objects.
If searching for specific Documentation or an Article, do this within the relevant category.
To narrow your results use the "Filter" option within Cases, Change Requests, Ideas, Reports, and Dashboards.

The following video clips will help guide you through the various search options:

- [How to use Global Search](#) (3 min. 3 sec.)
- [How to search Documentation Libraries](#) (1 min. 12 sec.)
- [How to search Articles](#) (59 sec.)



Resources: Ellucian

Search for “Troubleshooting Guide”

The screenshot shows the Ellucian Support Center search results for the query "BannerBI Troubleshooting Guide". The page displays 1-20 of 701 results. The search results table lists three documents: "BannerBI Troubleshooting Guide" (1.4 MB, 4/14/2015), "Banner Operational Data Store Installation and Upgrade Troubleshooting Guide 8.4" (179 KB, 7/24/2013), and "Banner ODS 8.4.1 Installation and Upgrade Troubleshooting Guide" (170 KB, 8/15/2013). The page also includes a sidebar with navigation links like "XE Registry", "XE Home", and "Download Code". A "Related Tag Searches" section lists "colleague", "ODS 8.5", "ODS", "financial aid", and "RAP 1.3.1". A "How to search Articles" section provides tips on using filtered views and search options.

Ellucian Support Center

ellucian.

Search Results: Showing 1-20 of 701 results

Related Tag Searches: colleague , ODS 8.5 , ODS , financial aid , RAP 1.3.1

Download 1 2 3 4 5 Next > > Display Options

<input type="checkbox"/>		Title	Size	Last Modified	Downloads
<input type="checkbox"/>		BannerBI Troubleshooting Guide	1.4 MB	4/14/2015	
<input type="checkbox"/>		Banner Operational Data Store Installation and Upgrade Troubleshooting Guide 8.4	179 KB	7/24/2013	
<input type="checkbox"/>		Banner ODS 8.4.1 Installation and Upgrade Troubleshooting Guide	170 KB	8/15/2013	

>Quercus Documentation

XE Registry

XE Home

Download Code

All Ellucian products
Quercus Product Download

How to search Articles (59 sec.)

Using Filtered Views for Ideas, Change Requests and Cases (3 min. 59 sec.)

* In Global Search, items under "Options" should be unchecked
* In Search Results, select "Search All" under Search Fees to be displaying.

Additional Support Center Resources



Resources: Ellucian

Content Search for Content

< Back

Search in **All Documentation Libra...** for **Performance Tuning** **Go!** [Clear Search](#)

Search Results: Showing 1-20 of 188 results

Related Tag Searches: [ODS 8.5](#) , [ODS](#) , [EDW 8.5](#) , [RAP 1.3.1](#) , [BEIS 8.2.1](#)

Download

1 2 3 4 5 [Next >](#) »

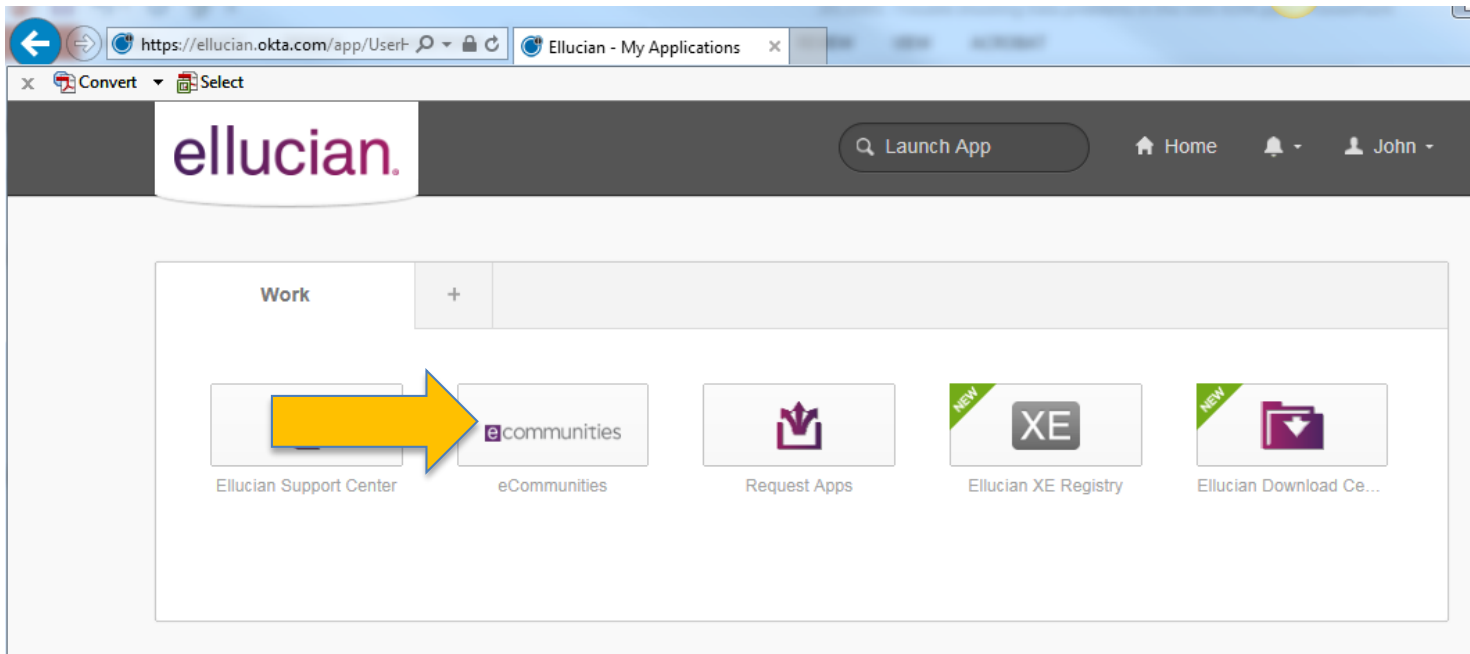
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<input type="checkbox"/>		Title	Size	Last Modified	Downloads
<input type="checkbox"/>		Luminis Content Management Suite Site Studio Performance Tuning Recommendations 3.3	114 KB	7/24/2013	
<input type="checkbox"/>		Luminis Content Management Suite Site Studio Performance Tuning Recommendations 3.2	116 KB	7/24/2013	
<input type="checkbox"/>		Performance Troubleshooting for Colleague R18	604 KB	7/27/2013	
<input checked="" type="checkbox"/>		BannerBI Performance Master Tuning Guide	555 KB	4/14/2015	
<input type="checkbox"/>		Banner Performance Reporting and Analytics Materialized Views Operations Supplement November 2014	1.2 MB	11/11/2014	
<input type="checkbox"/>		Banner Performance Reporting and Analytics Oracle Streams Operations Supplement November 2014	600 KB	11/11/2014	
<input type="checkbox"/>		User Interface 4.5 Installation and Administration	4.2 MB	12/1/2014	
<input checked="" type="checkbox"/>		BannerBI Troubleshooting Guide	1.4 MB	4/14/2015	



Resources: Ellucian

- eCommunities





Resources: Other



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John's Super Column Search RATING: ★★★★★



This is a tool to help report writers and data analysts understand what data is available to them, as well as where it comes from.

University of Georgia

A user can search for strings in various parts of the metadata. It will allow them to find ODS or EDW columns, tables or metadata that contains a [...more](#)

System Product	Ellucian Banner Argos	Downloads Product Version	0
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Q/A and Forum Discussion





Thank You!

Trouble shooting Data Problems in the ODS and EDW

Presentation : XXXX



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