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

R.E.M.

the B-52s

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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

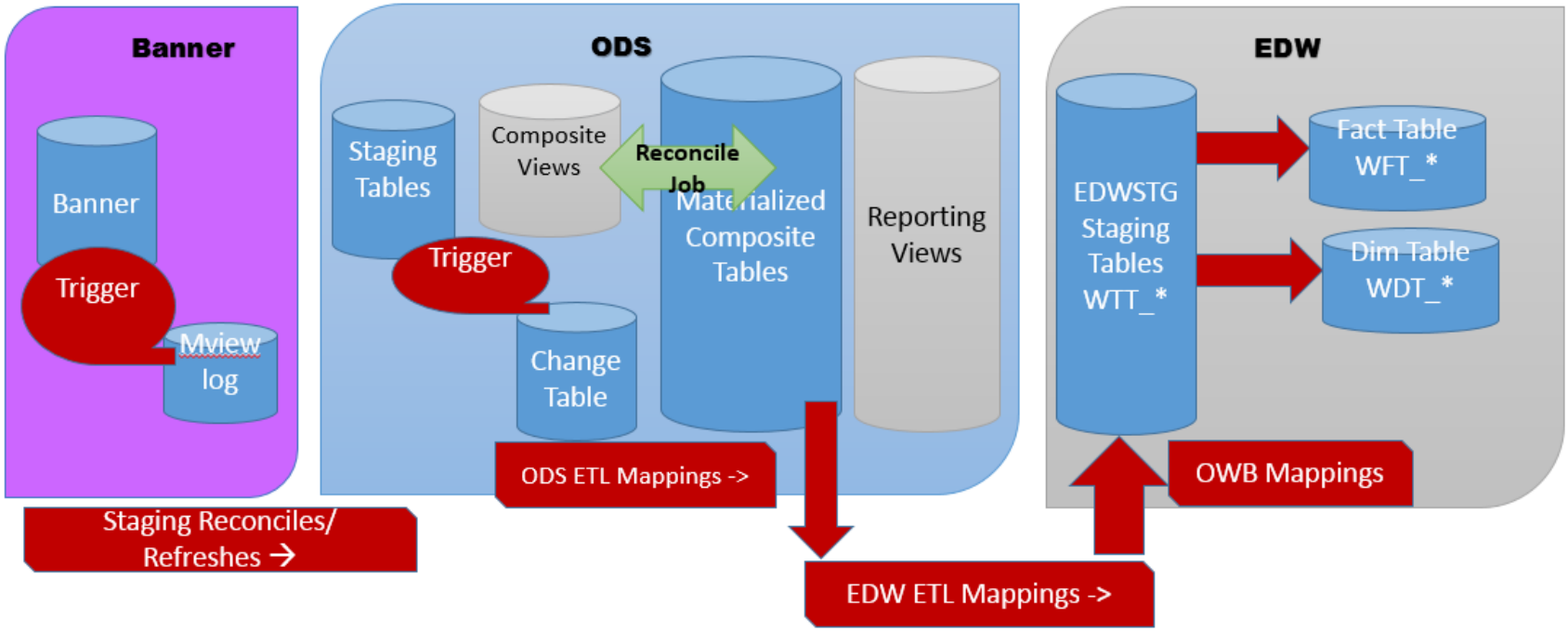
- Responsible for reporting and improving data quality and service with functional areas
- 20 years of Banner/Higher Education experience
- Former director of Professional Services at Evisions

Topics To be Covered

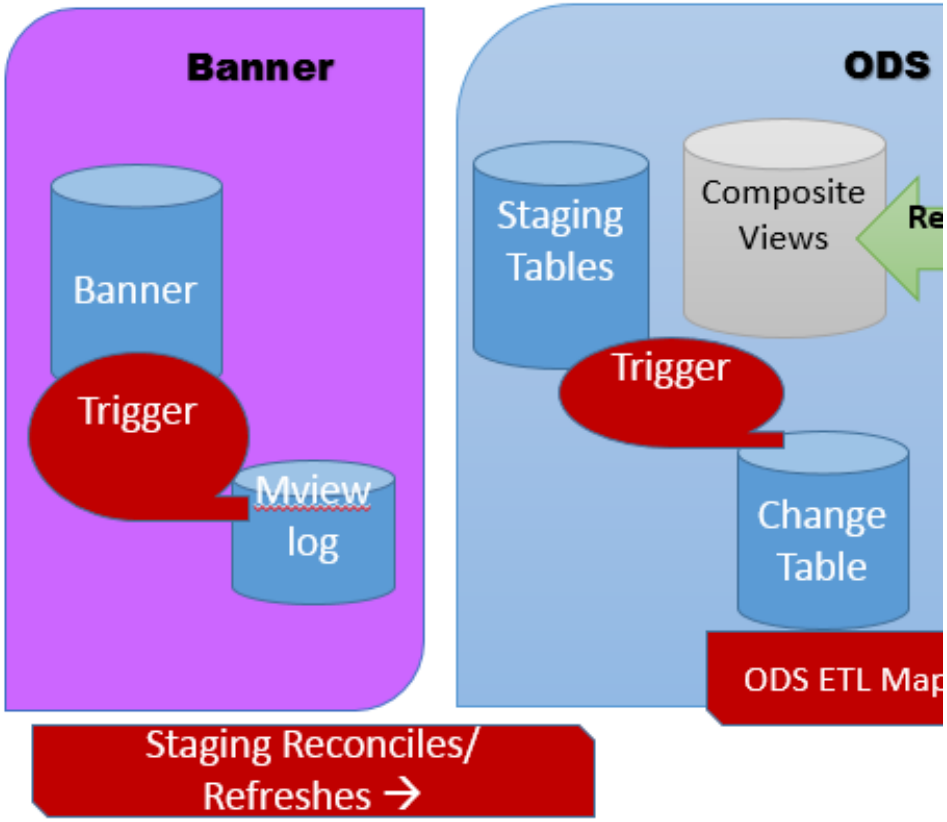
- Architecture
- Common Problems
  1. Data Missing from ODS Reporting Views
  2. Data Exists but not current
  3. Don’t know what this is or where it comes from
  4. Data REALLY wrong
- Resources

Architecture

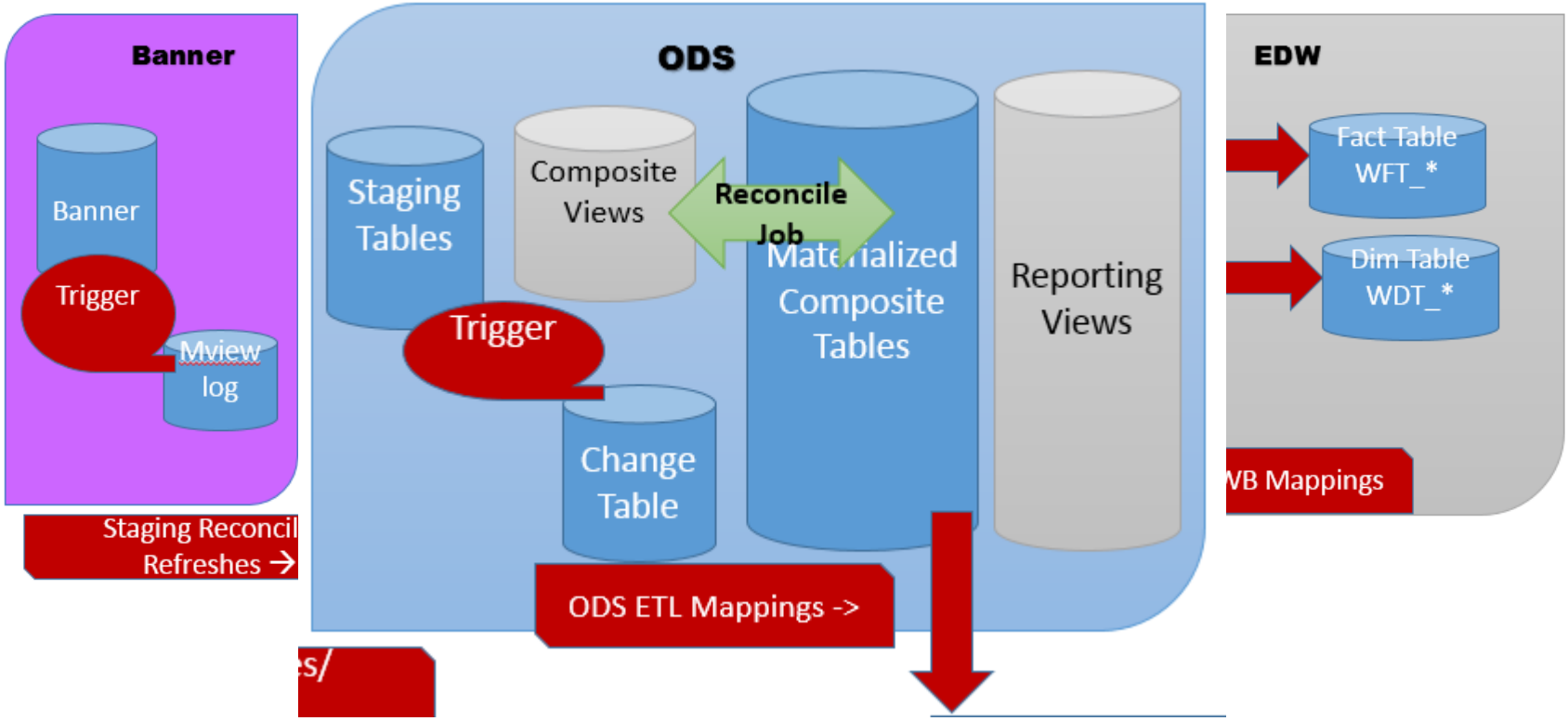
Architecture: High Level Overview



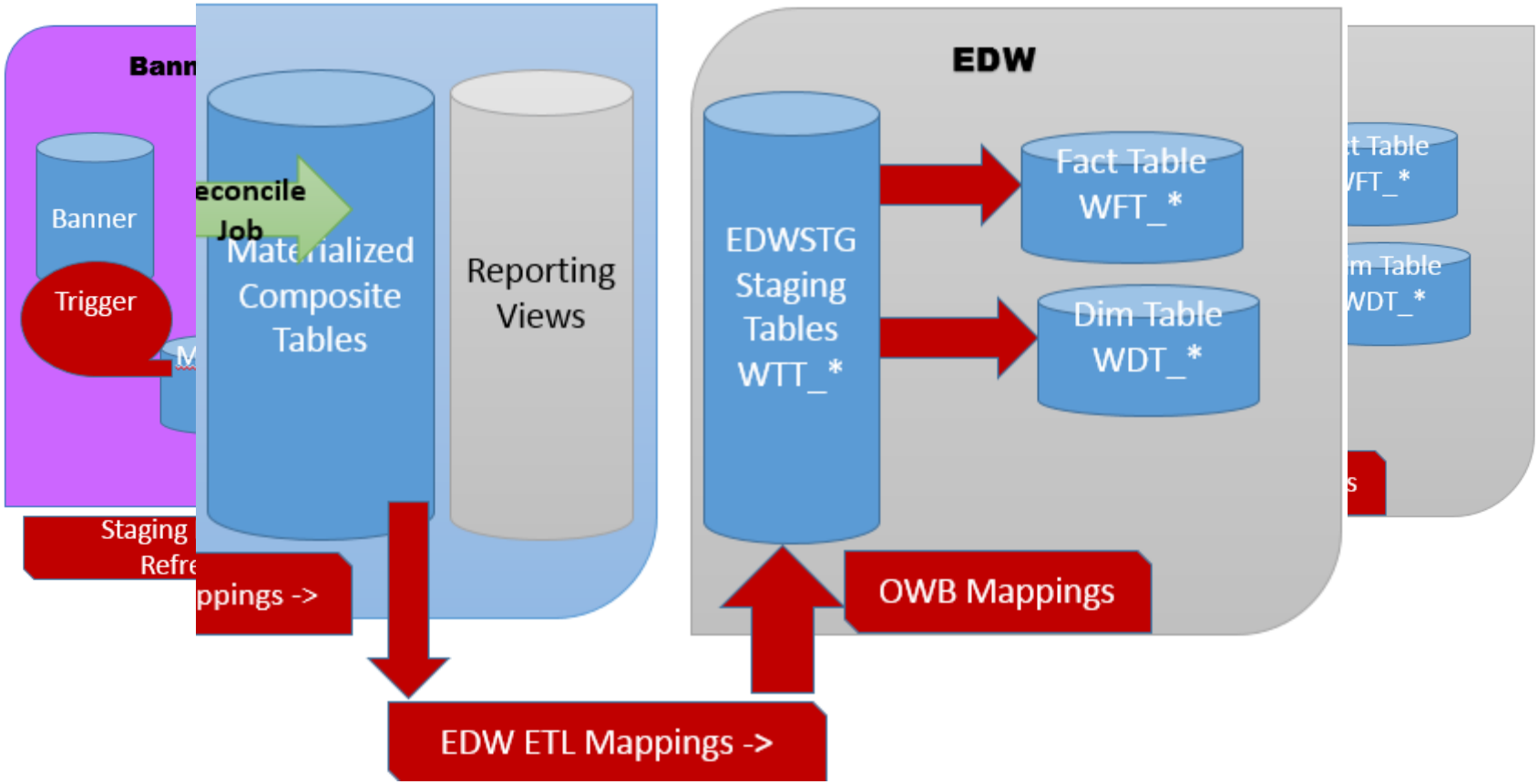
Architecture: Banner



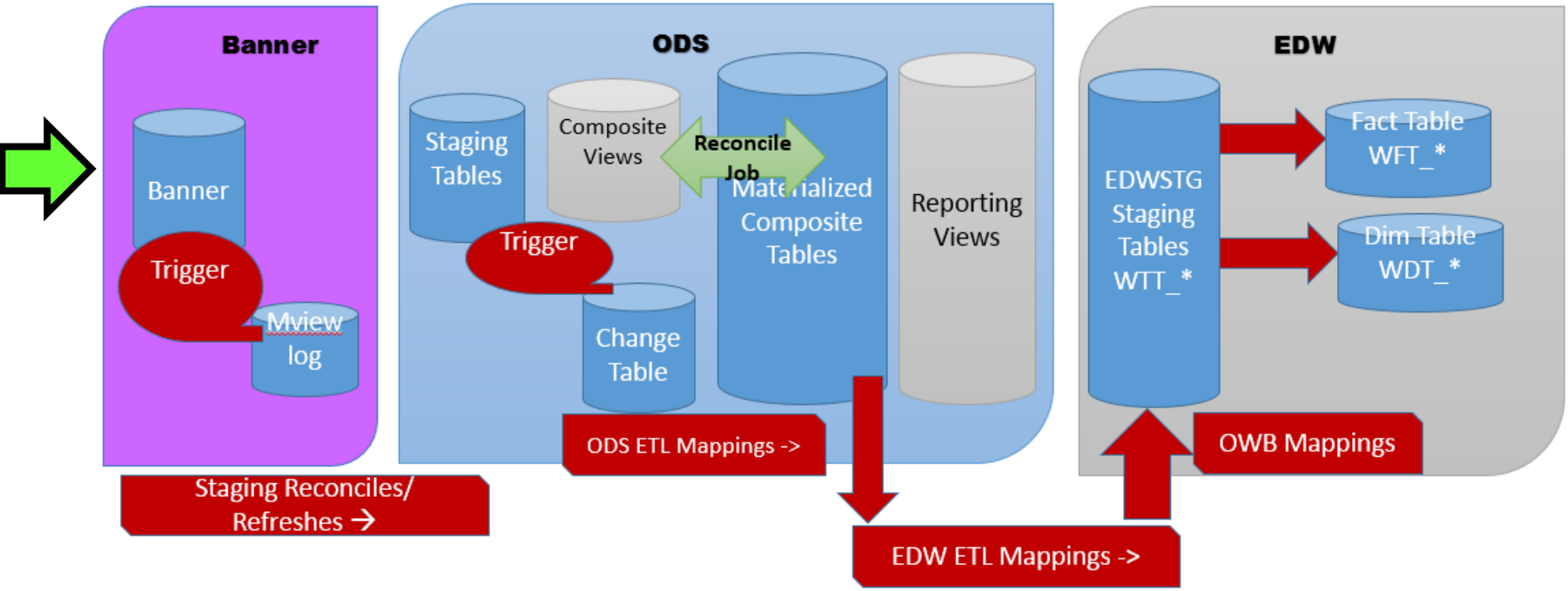
Architecture: ODS



Architecture: EDW

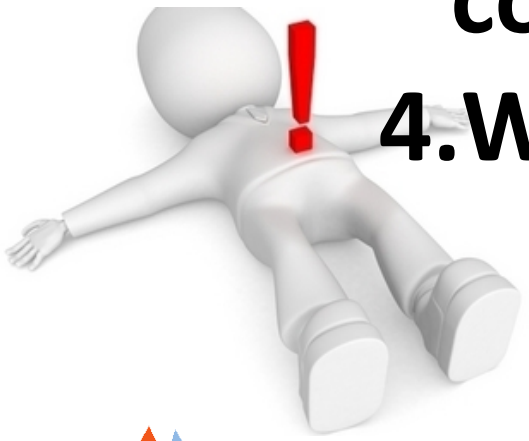


Architecture: Highlights/Review



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?



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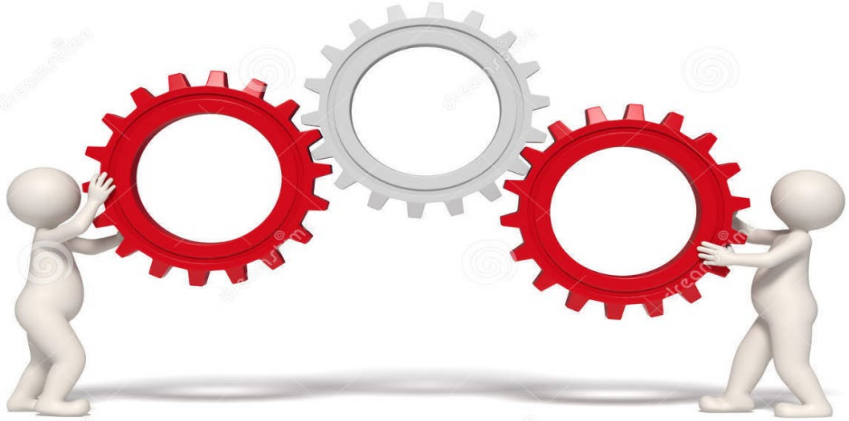
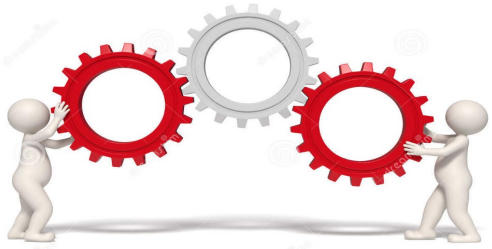


Built in Tools

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

Control Reports



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UGA - ODSPROD

Preferences & Security | Options | Meta Data | Staging | New Web Tailor Administration

Search Go

RETURN TO OPTIONS SITE MAP HELP EXIT

Select a Control Report

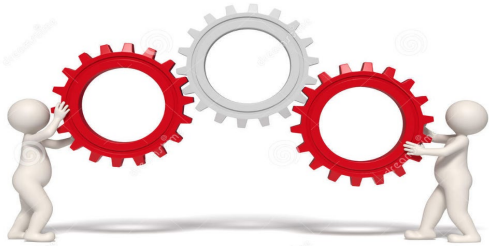
Click a Process in the table below to select the Control Report you want to display.

Refresh Job Status Codes

2226 reports are found, **1-100** are listed below. Select All | Deselect All

Select	Run Date	Job Number	Process	UserID	Status
☐	Sep 10, 2015 08:00 am	19041	CHANGE_TABLE_COUNTER	SEEMAMS8	Complete
☐	Sep 10, 2015 07:30 am	18924	ODS_HEALTH_CHECK	SEEMAMS8	Warning
☐	Sep 10, 2015 06:31 am	18923	RECONCILE_JOB	SEEMAMS8	Complete
☐	Sep 10, 2015 06:15 am	18922	STAGE_AREA_STATUS	SEEMAMS8	Complete
☐	Sep 10, 2015 06:01 am	18921	STAGE_AREA_STATUS	SEEMAMS8	Complete
☐	Sep 10, 2015 01:01 am	18920	REFRESH_ALL-P-W	SEEMAMS8	Complete
☐	Sep 10, 2015 12:30 am	18919	CHANGE_TABLE_COUNTER	SEEMAMS8	Complete
☐	Sep 09, 2015 10:00 pm	19453	REFRESH_STAGING_COLLECTIONS	SEEMAMS8	Complete
☐	Sep 09, 2015 08:00 am	19041	CHANGE_TABLE_COUNTER	SEEMAMS8	Complete
☐	Sep 09, 2015 07:30 am	18924	ODS_HEALTH_CHECK	SEEMAMS8	Warning
☐	Sep 09, 2015 06:31 am	18923	RECONCILE_JOB	SEEMAMS8	Complete
☐	Sep 09, 2015 06:15 am	18922	STAGE_AREA_STATUS	SEEMAMS8	Complete
☐	Sep 09, 2015 06:01 am	18921	STAGE_AREA_STATUS	SEEMAMS8	Complete
bannerinbprod01.cc.uga.edu:9170/ODSPROD/twbkwbis.P_GenMenu?name=bmenu.P_SecurityMnu	01:01 am	18920	REFRESH_ALL-P-W	SEEMAMS8	Complete

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 ma

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

Freeze Data Maintenance
Define lists of related Banner ODS tables or views to freeze at th sam

Set Up and Maintain Cleansing Processes
Set Up and Maintain Cleansing Process Rules, Elements, Values, and De

List Events for a Banner EDW Star
View a list of which events have been loaded for one of the Banner ED

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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 - Para
Schedule Multiple Banner EDW Snapshots
Schedule Banner EDW Operational Mappings - Pa
Banner EDW Utilities
Freeze Multiple Banner ODS Tables/
Freeze a Single Banner ODS Table/V
Publish Meta Data Reports

Preferences & Security | Options | Meta Data | Staging | New Web Tailor Administration

Search Go

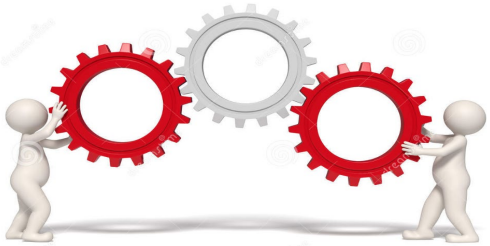
Select a Subprocess

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



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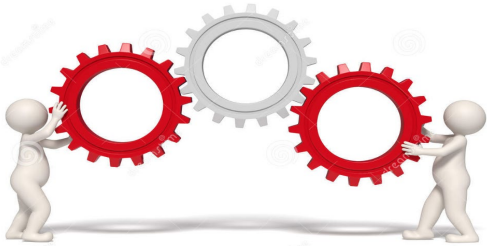
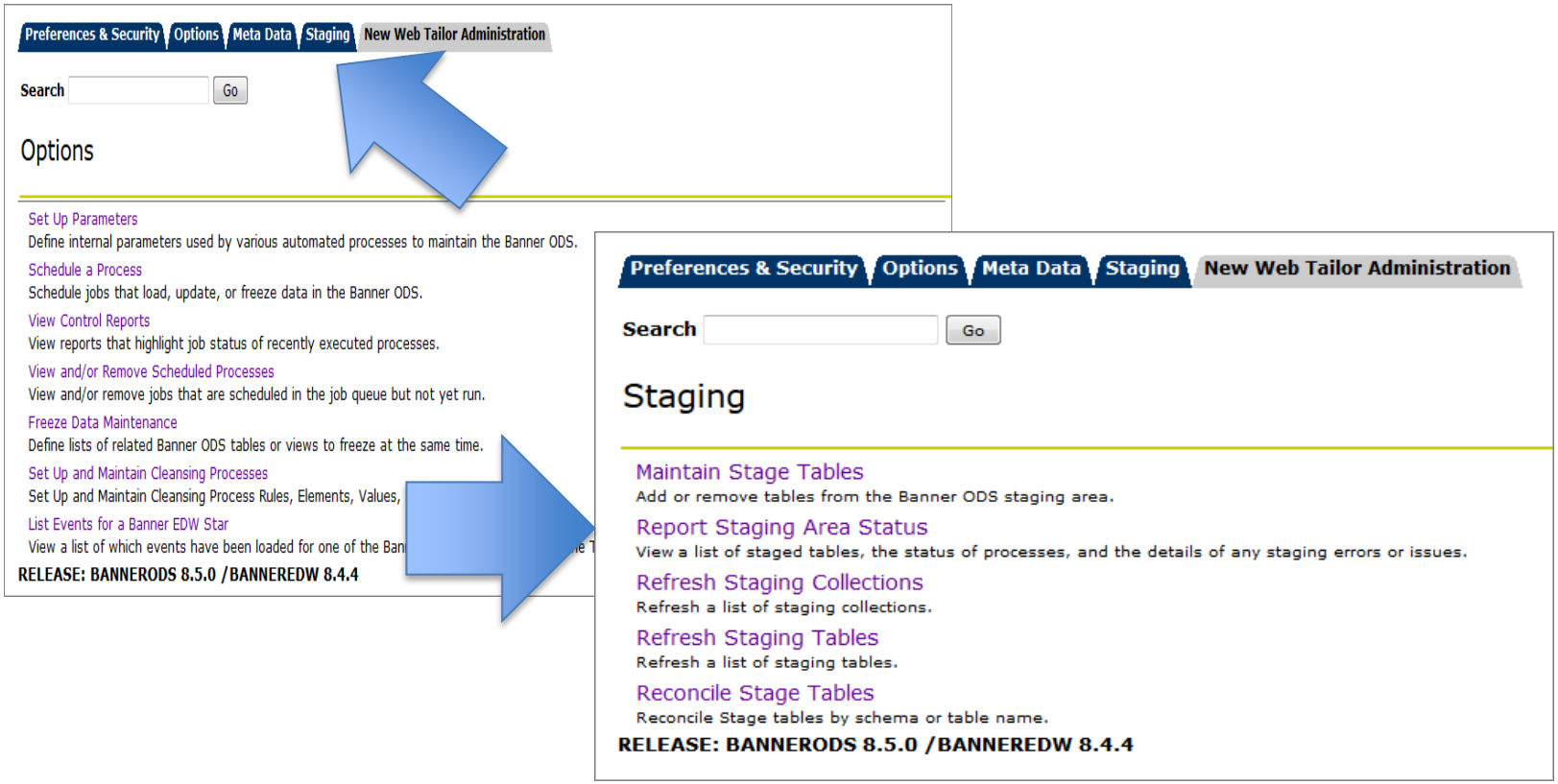
Stage Area Status Report





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.
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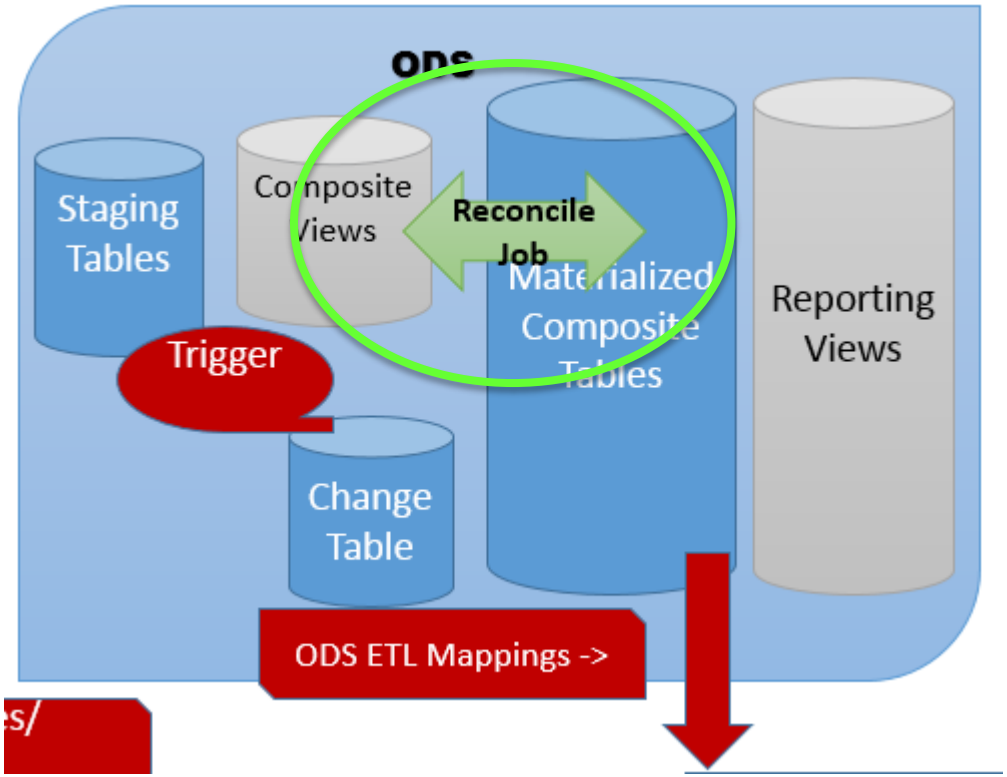
Degree Works	---->ODS has 0 rows while Source has 1 rows. Key values are: TEMPLATE_SEQUENCE_NUMBER=0 TEMPLATE_COURSE_KEY=1E50B14F3C90030DE0531E8D11ACAF06.

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

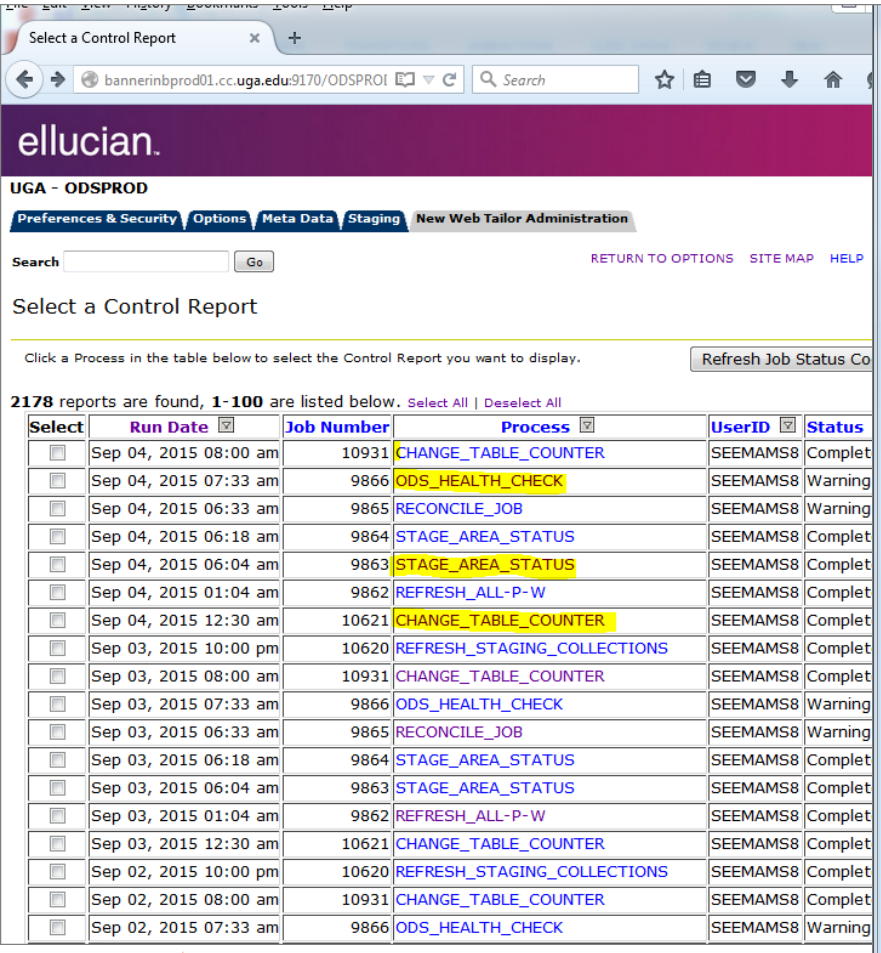
PROBLEM

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

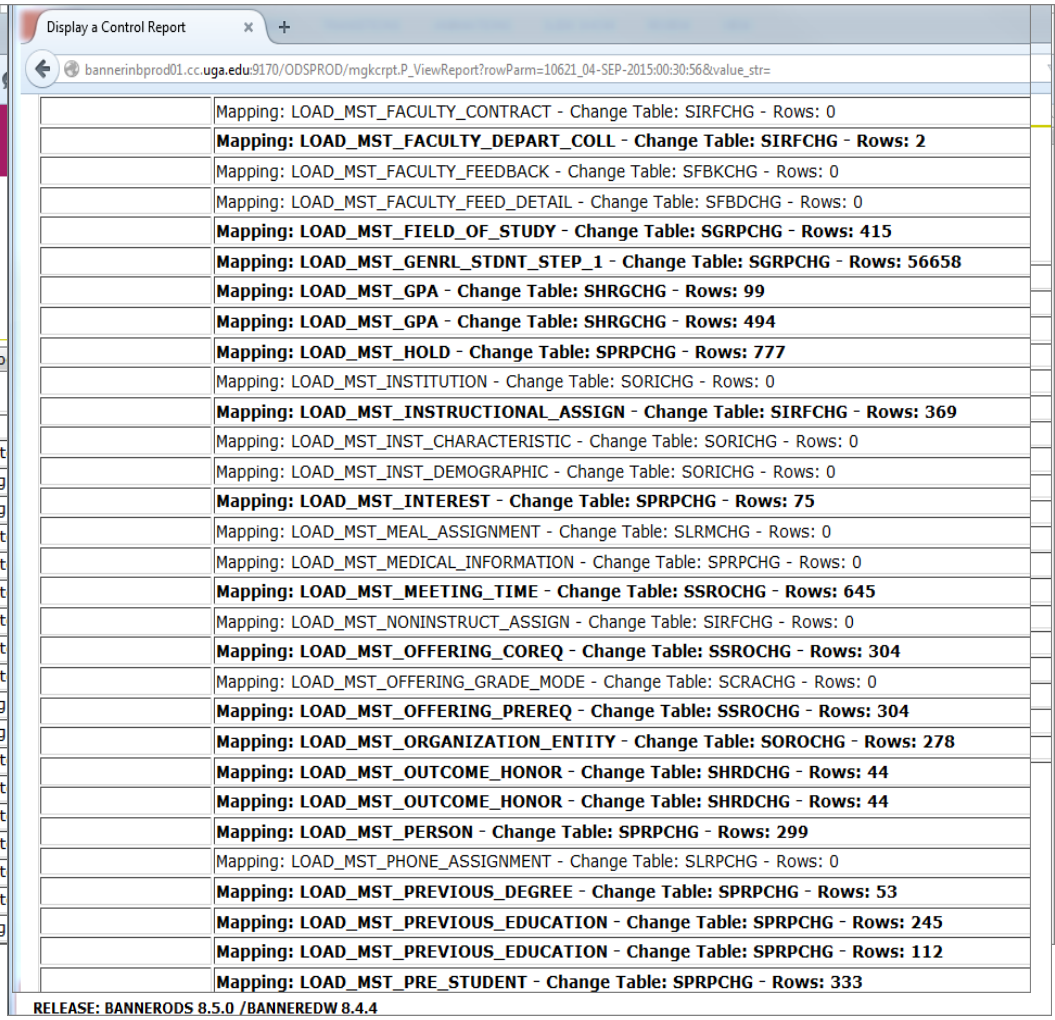
2: Data ‘old’

“What time is your refresh?”

2: Data ‘old’



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



	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: SFBDCHG - 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 DWSCHEMA.DAP_RESCLASS_DTL
CHECK_TRIGGERS	**WARNING:** Trigger DT_SPLNCLS_INSERT_ODS_CHANGE is INVALID on table DWSCHEMA.SEP_PLAN_CLASS
CHECK_TRIGGERS	**WARNING:** Trigger DT_SPLNGRP_INSERT_ODS_CHANGE is INVALID on table DWSCHEMA.SEP_PLAN_GROUP
CHECK_TRIGGERS	**WARNING:** Trigger DT_SPLNTRM_INSERT_ODS_CHANGE is INVALID on table DWSCHEMA.SEP_PLAN_TERM
CHECK_TRIGGERS	**WARNING:** Trigger DT_STPLCLS_INSERT_ODS_CHANGE is INVALID on table DWSCHEMA.SEP_TMPL_CLASS
CHECK_TRIGGERS	**WARNING:** Trigger DT_STPLGRP_INSERT_ODS_CHANGE is INVALID on table DWSCHEMA.SEP_TMPL_GROUP
CHECK_TRIGGERS	**WARNING:** Trigger DT_STPLMST_INSERT_ODS_CHANGE is INVALID on table DWSCHEMA.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)
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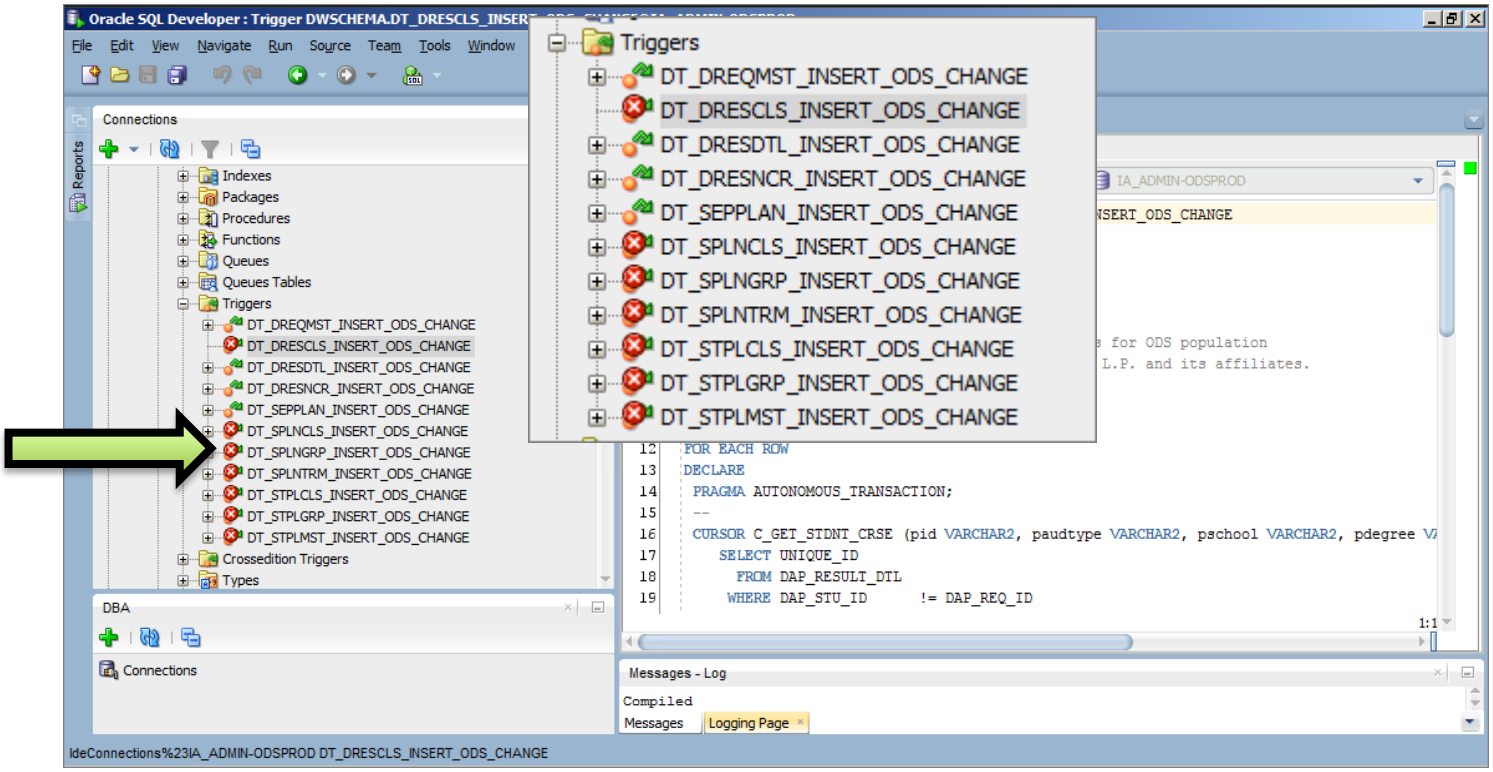
Problem 2B: How to fix

Invalid Trigger as seen in SQL Developer



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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_DWSCHEMA at: 24-AUG-2015 01:53:53
MGKMAP.P_REFRESHSTAGINGMVIEWS	Refreshing Staging Refresh Group (1/1) ODS_REFGROUP_DWSCHEMA at: 24-AUG-2015 01:53:53
	ERROR **Refreshing Stage Group: ODS_REFGROUP_DWSCHEMA** (Next error)
	ORA-12048: error encountered while refreshing materialized view "DWSCHEMA"."SEP_PLAN_CLASS" ORA-12034: materialized view log on "DWSCHEMA"."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_DWSCHEMA
	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 DWSCHEMA.SEP_PLAN_CLASS at 24-AUG-2015 09:45:03
(P)> P_STAGE_MVIEW	MView: DWSCHEMA.SEP_PLAN_CLASS added to Refresh Group: ODS_REFGROUP_DWSCHEMA
(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

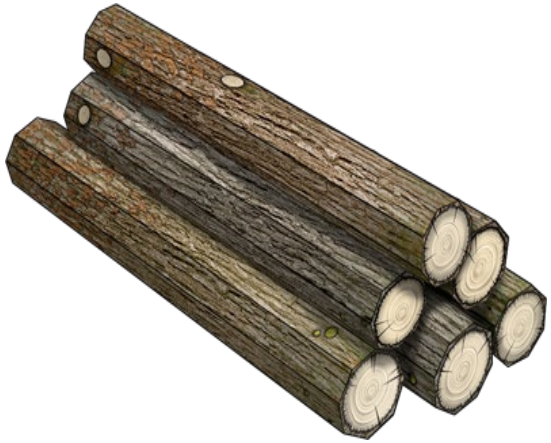
RECONCILE_STAGE_TABLE control report guiding to run sub-process

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.’

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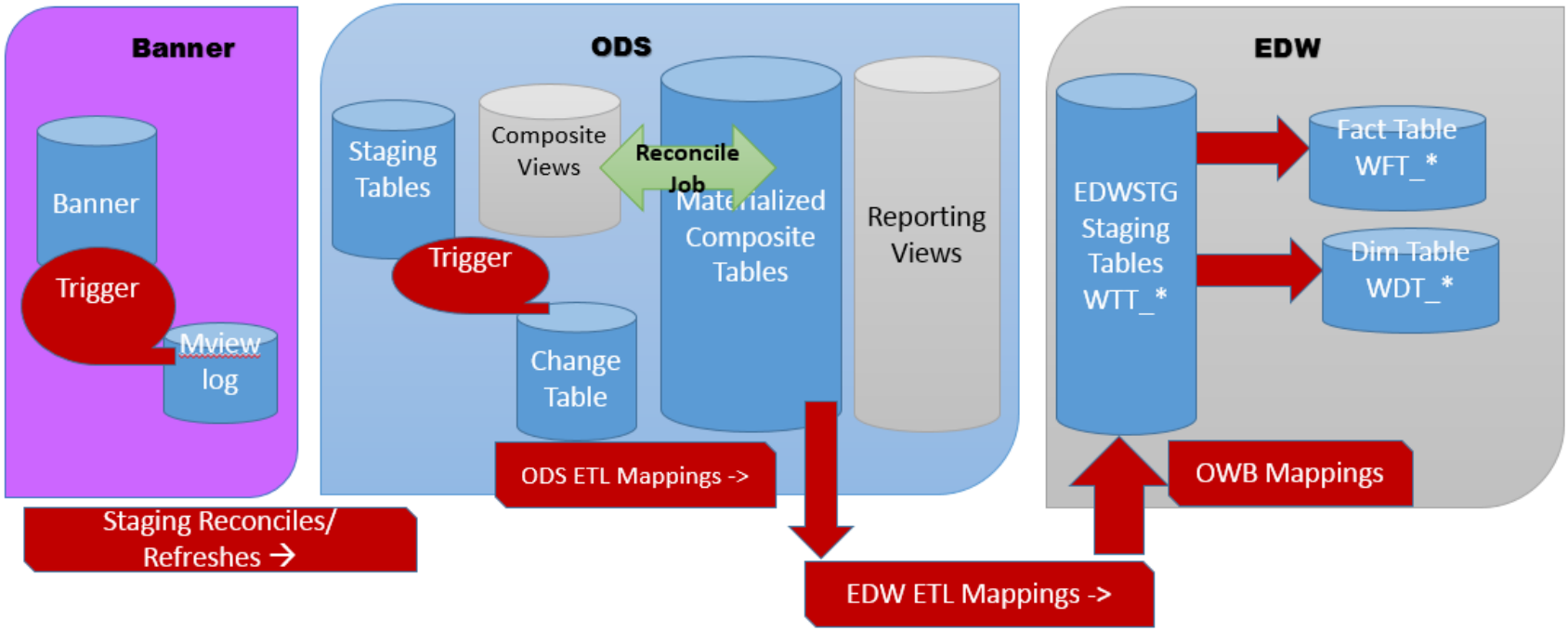
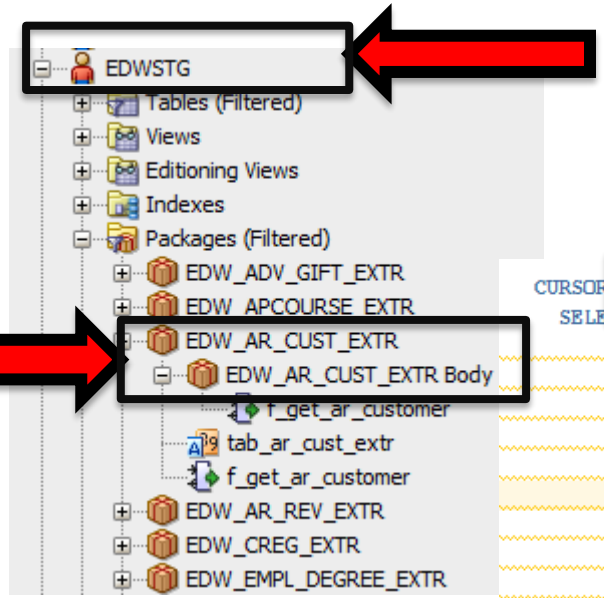
Problem 3: ODS/EDW



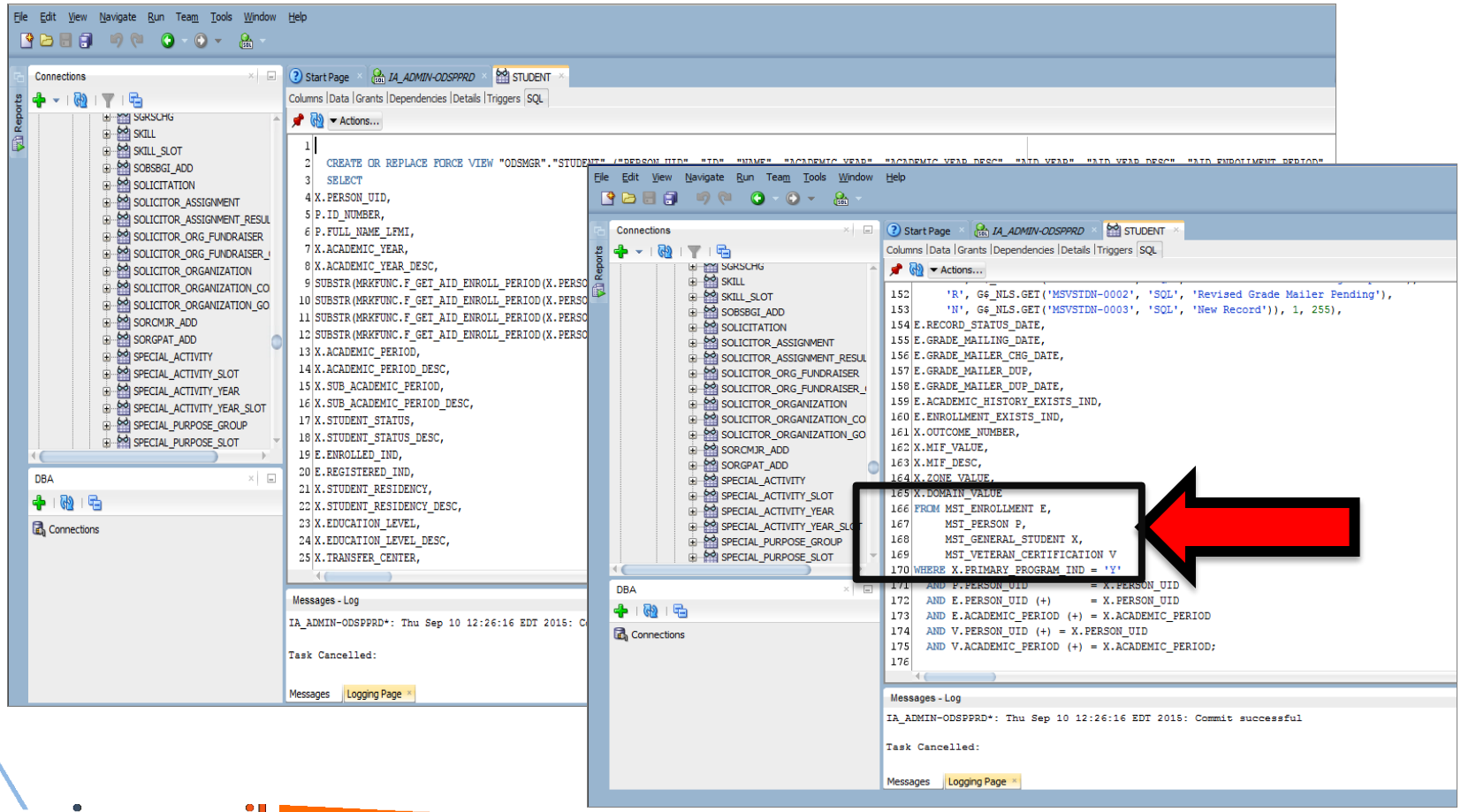
Problem 3: EDW




```
CURSOR get_ar_cust_pop(multi_src_in VARCHAR2) IS
  SELECT NVL(RAD.MIF_VALUE, mif_cleanse_value)                          multi_source,
         NVL(RAD.MIF_DESC, mif_cleanse_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



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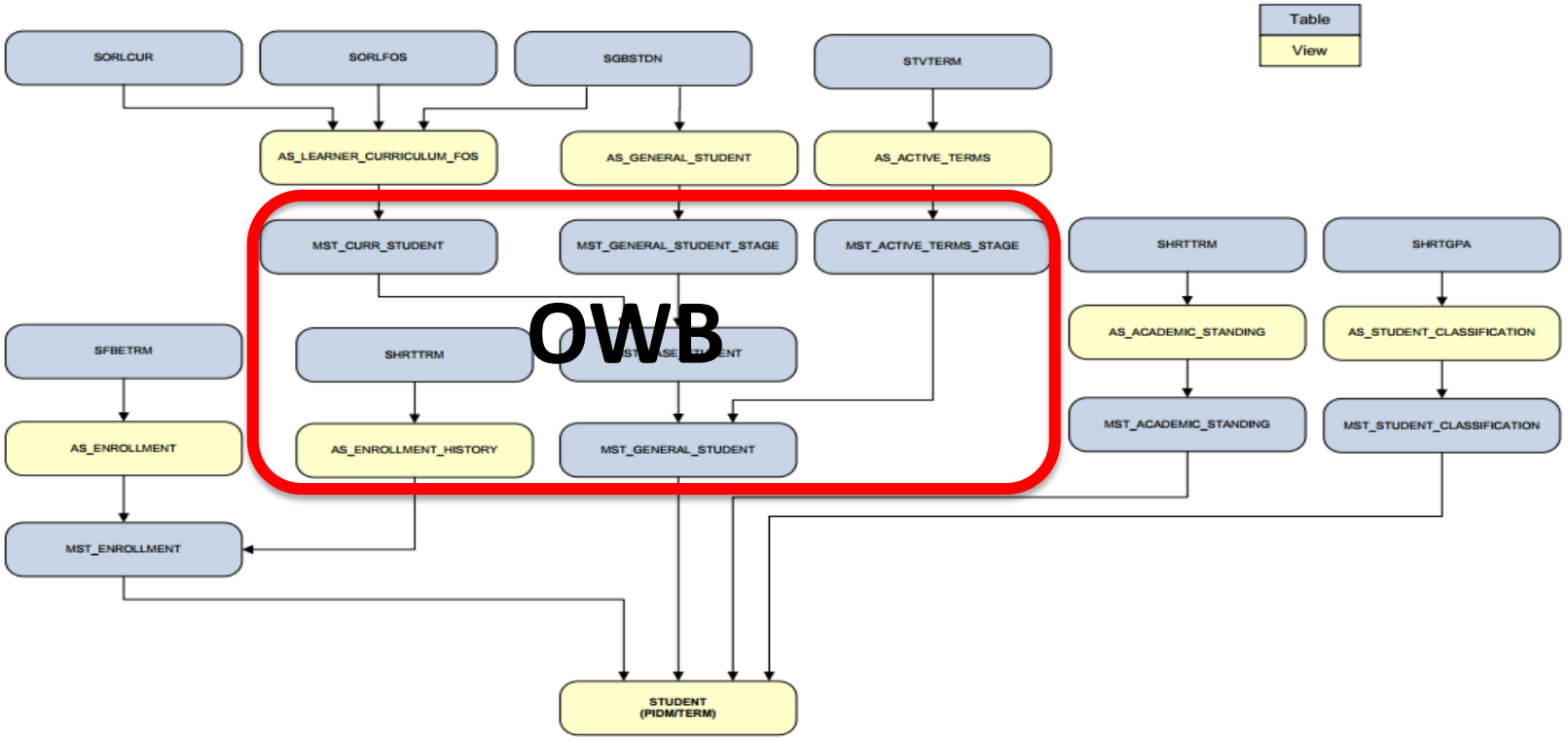
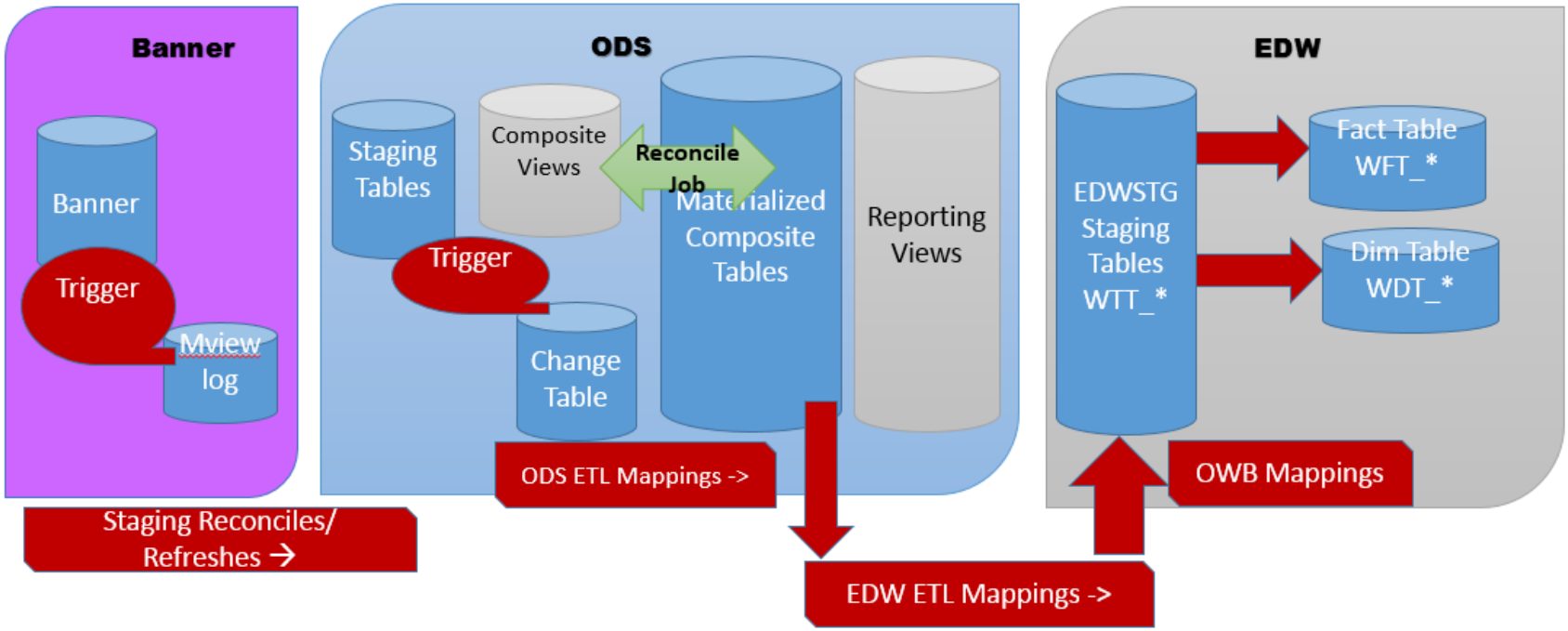
Problem 3: ODS

Banner ODS 8.5 Administration Guide page 108

Student reporting view flow

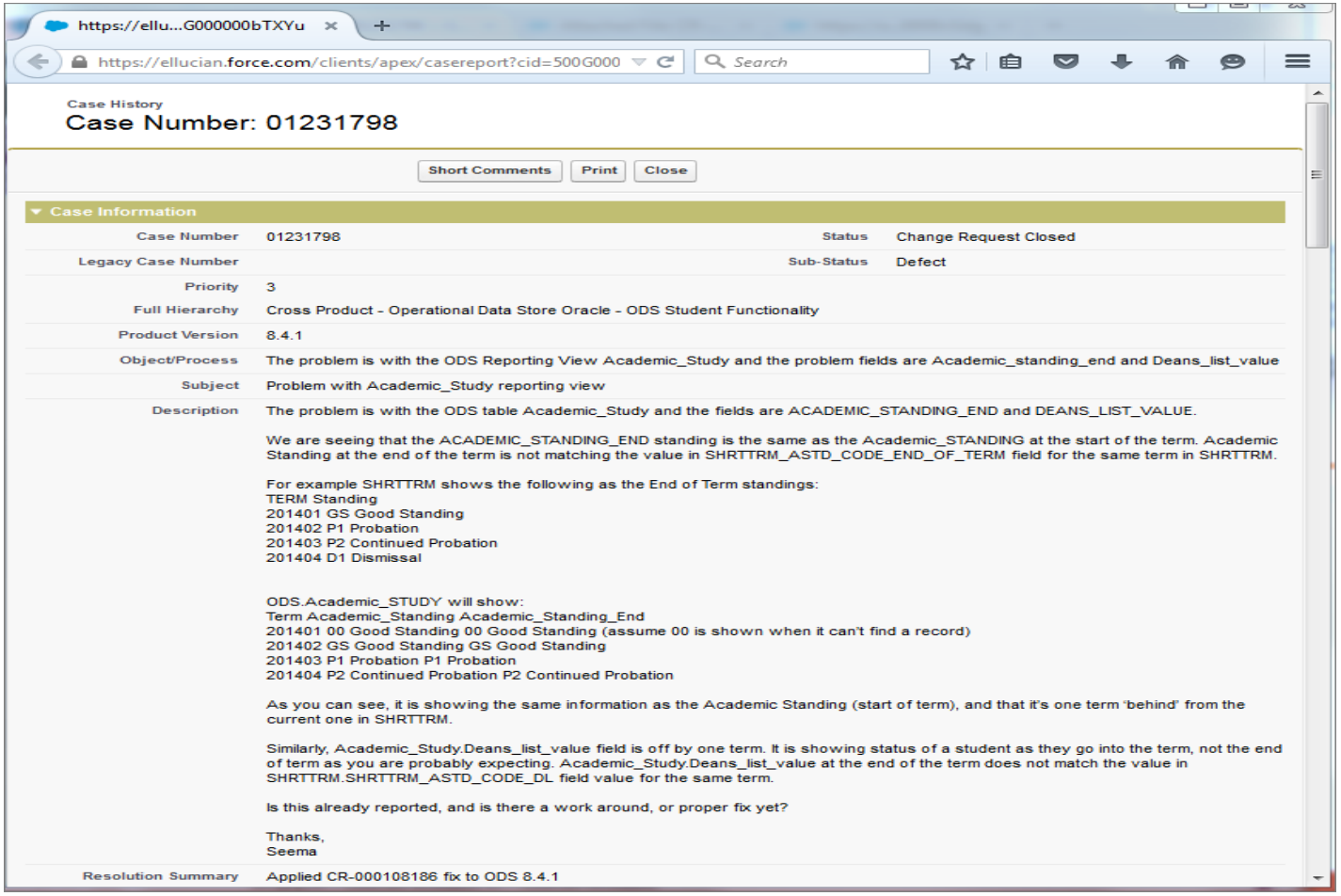


Problem 3: Summary



4: Still Wrong?

4: Still Wrong?



Resources

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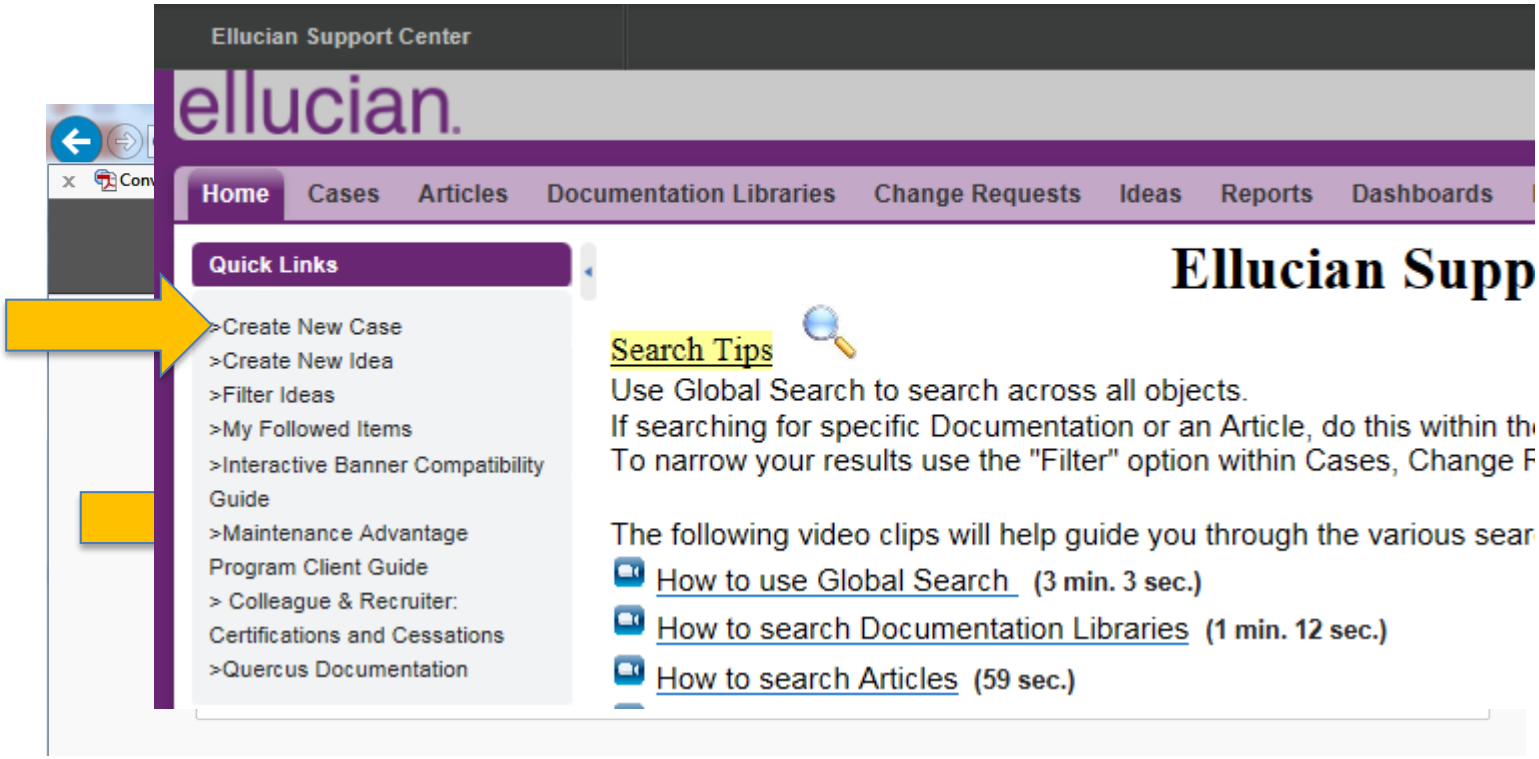
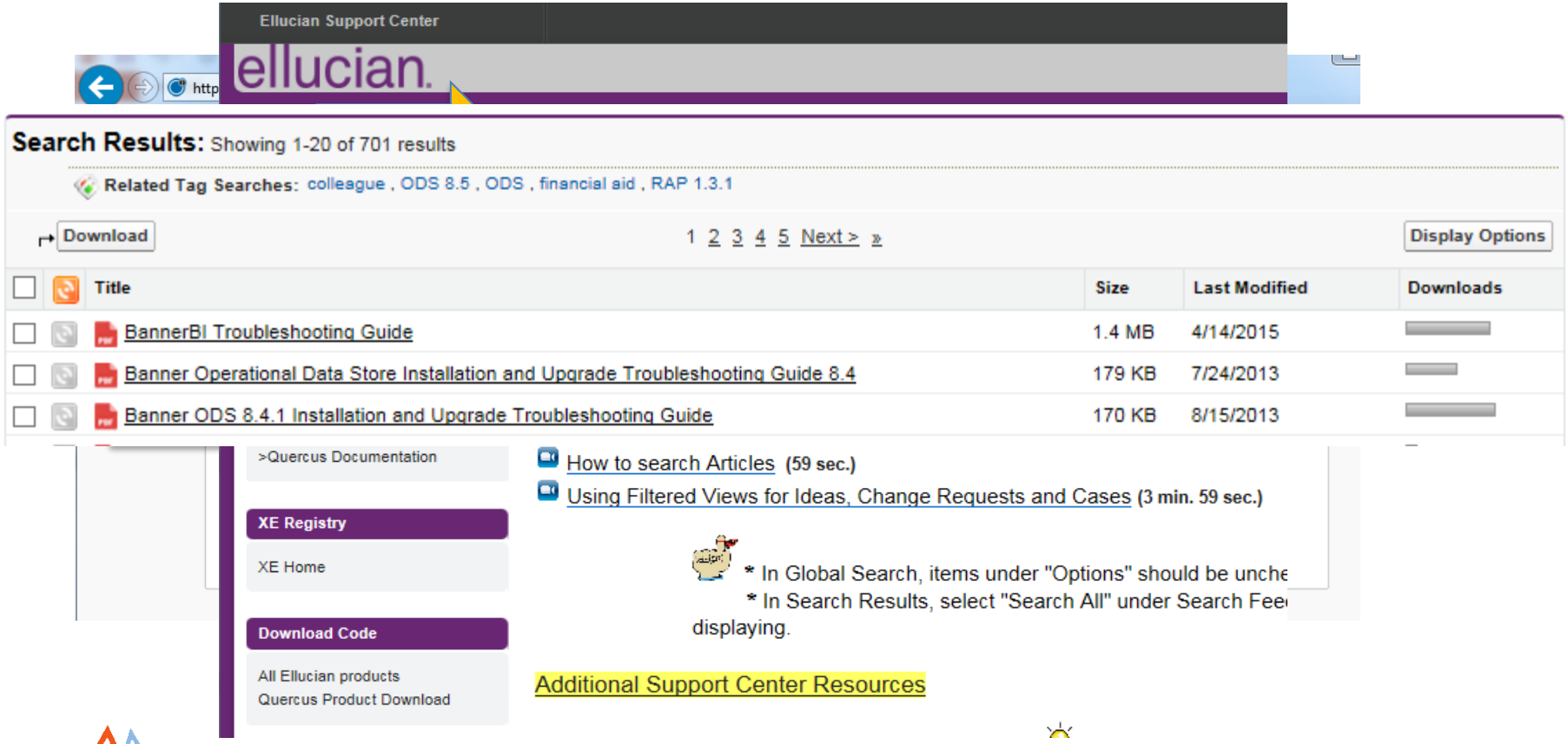
Resources: Support

https://ellucian.okta.com

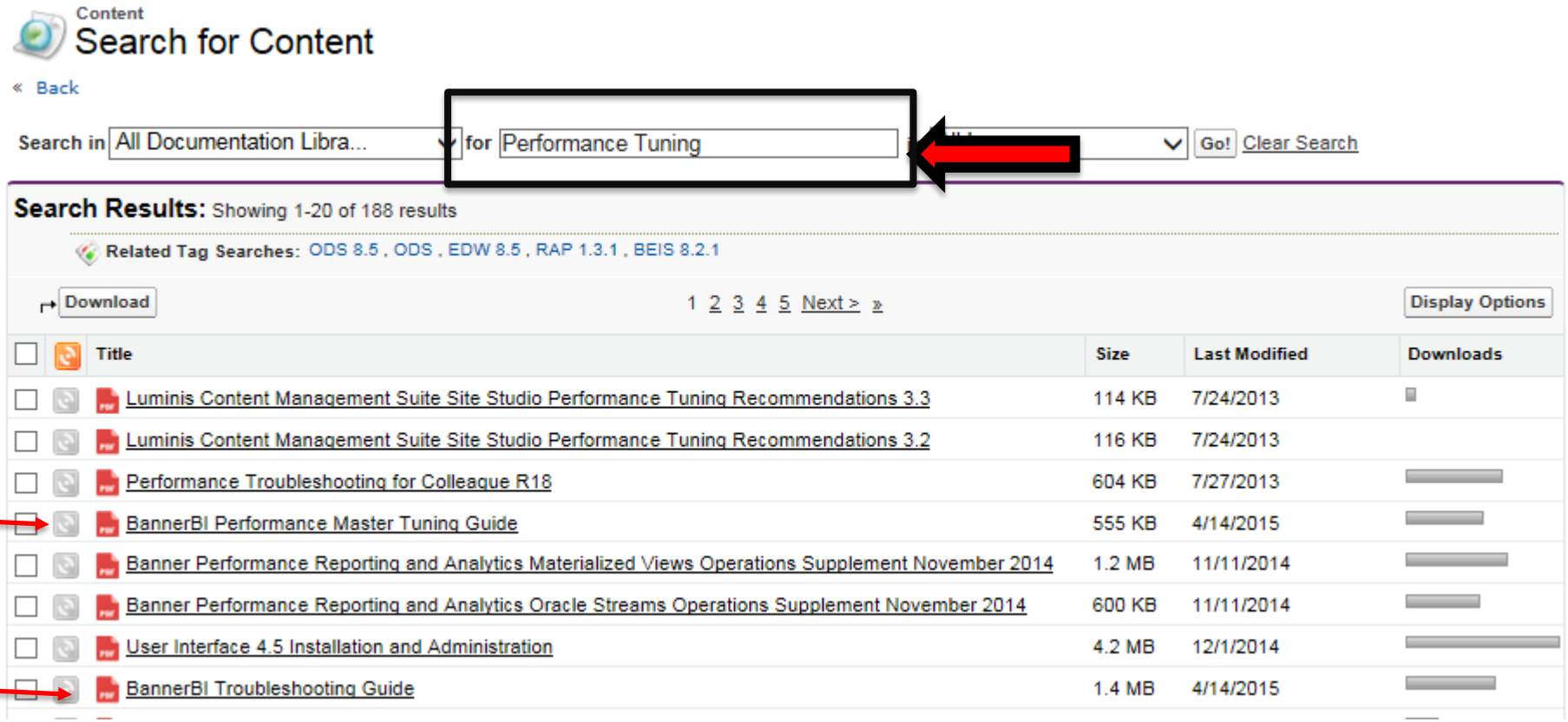


Resources: Ellucian

Search for “Troubleshooting Guide”

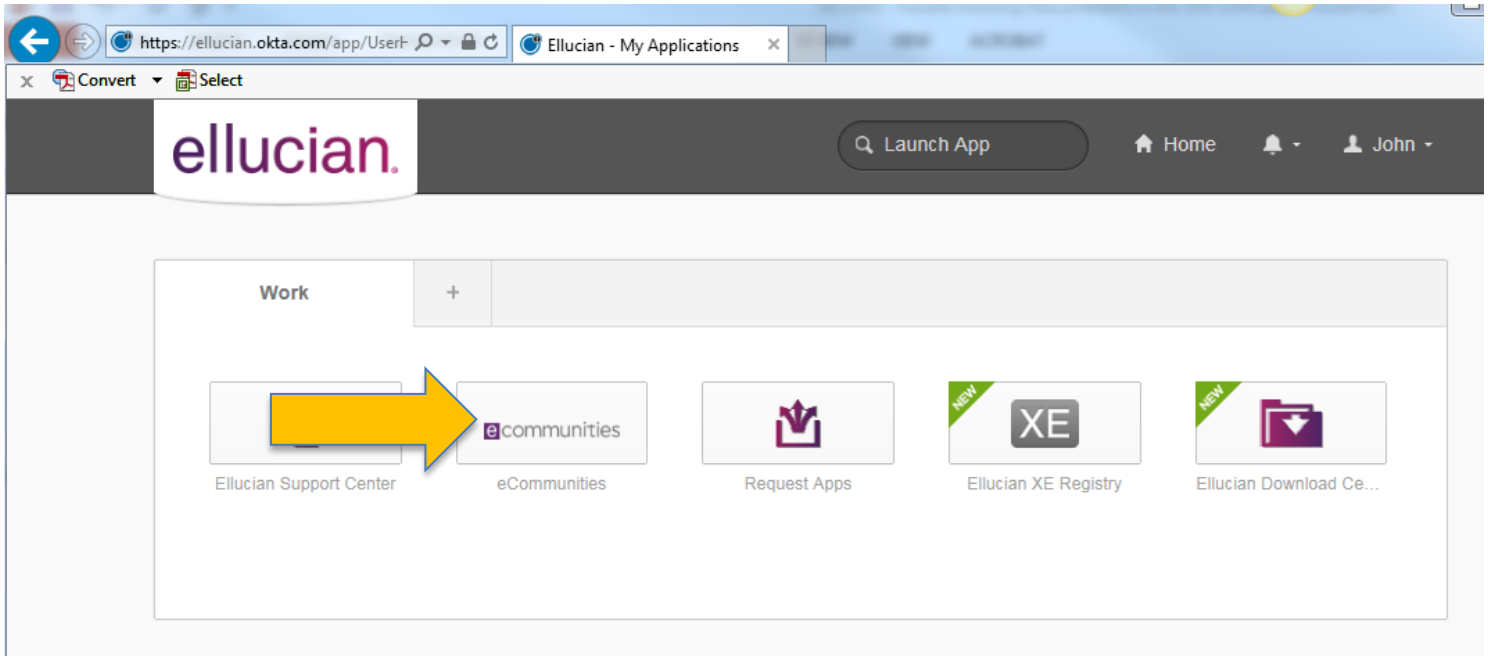


Resources: Ellucian



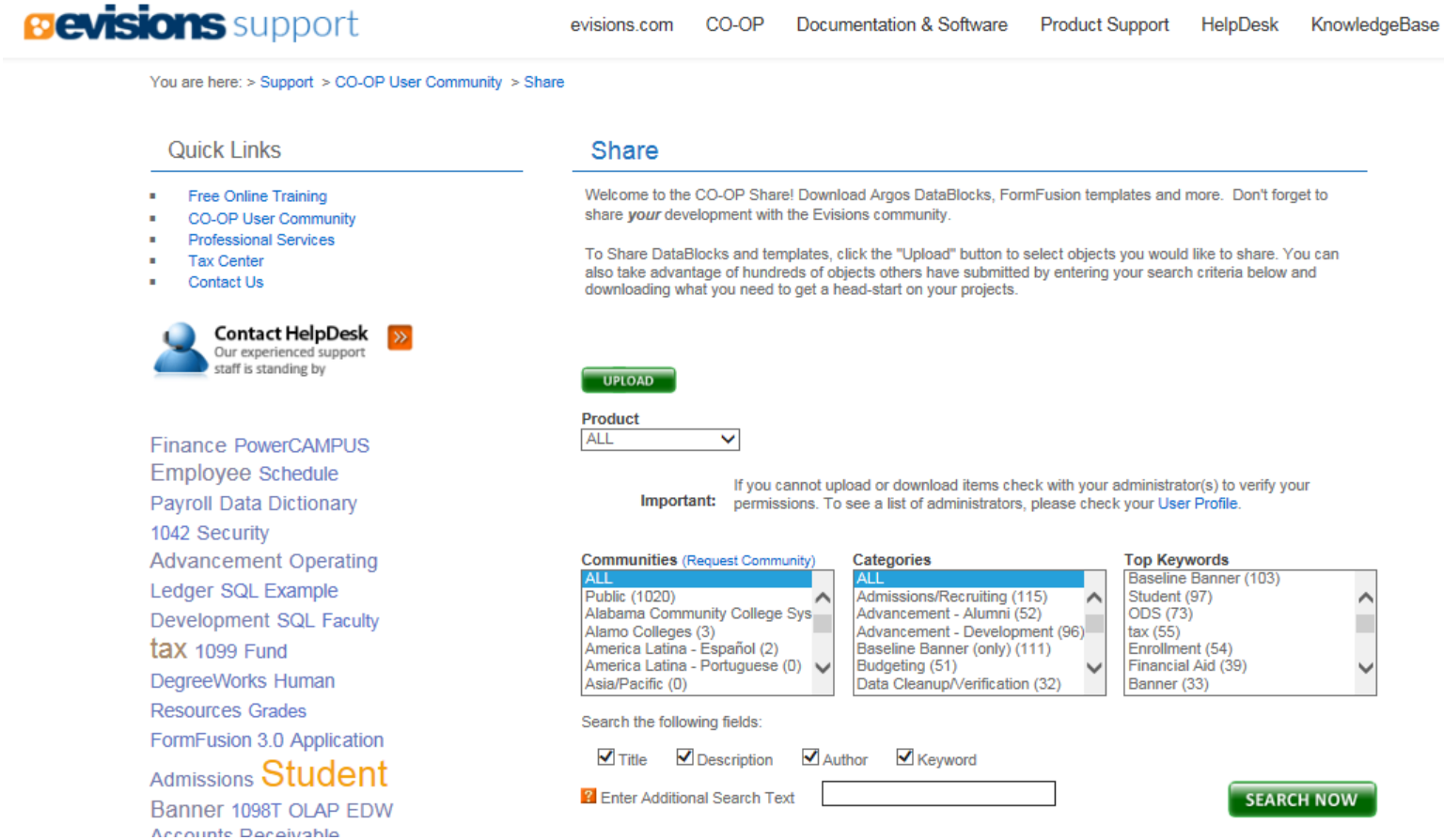
Resources: Ellucian

- eCommunities



Resources: Other

CO-OP Share



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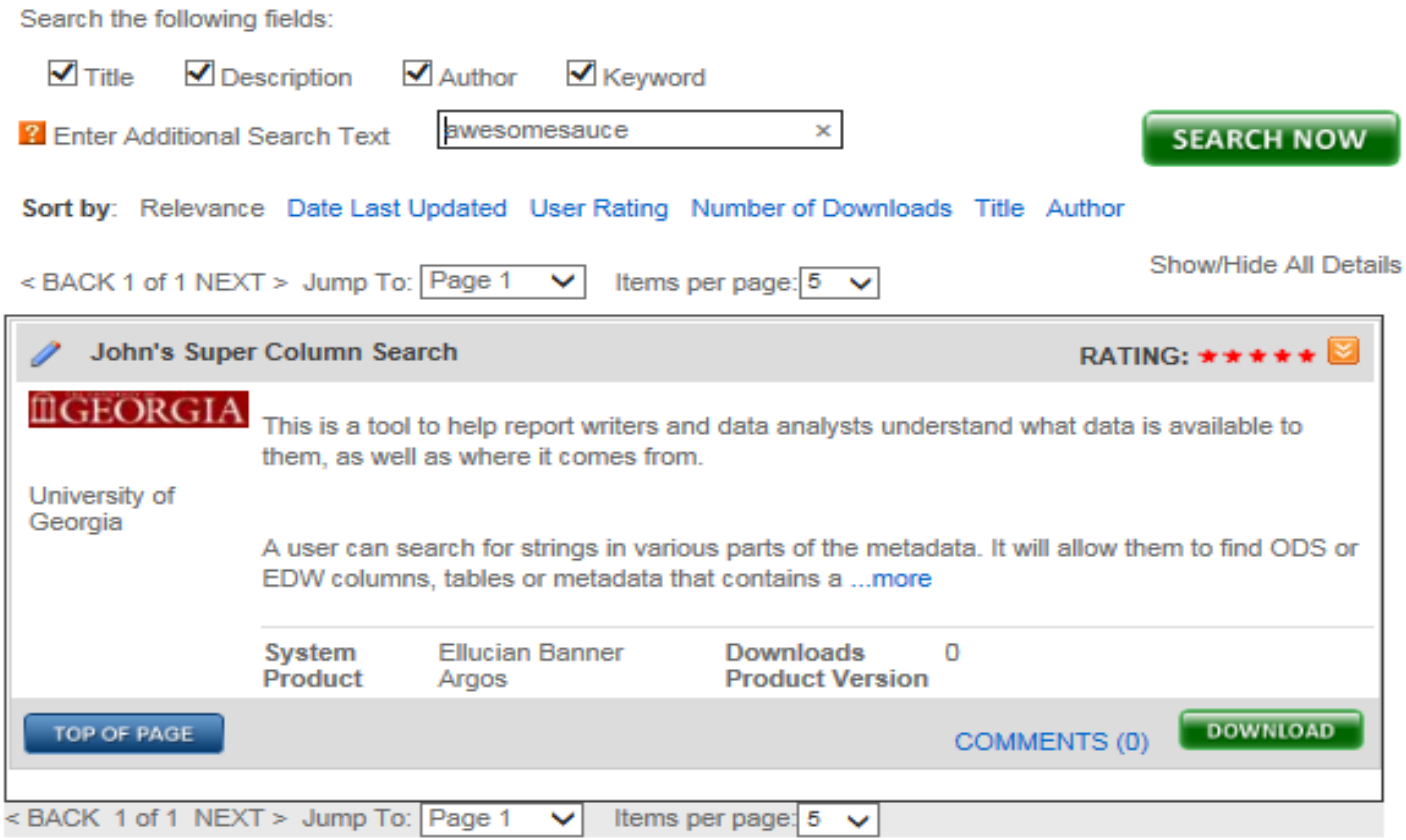
Resources: Other

CO-OP Share



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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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