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Banner Operational Data Store
Release Guide

Release 9.0
August 2016

Revision History

Publication Date	Summary
August 2016	New version that supports Banner Operational Data Store 9.0 software.

Table of Contents

Introduction

This guide documents changes made with the delivery of Banner® Operational Data Store (ODS) release 9.0. The major change in this release is replacement of ETL tool OWB (Oracle Warehouse Builder) with ODI (Oracle Data Integrator). OWB to ODI migration is required because Oracle deprecates OWB support with the end of Oracle 12cR1 Premier Support*. With Banner ODS 9.0, there are no impacts on the reporting layer.

*Oracle Database 12cR1 Premier Support ends July 2018 (Oracle Lifetime Support Doc 069183).

In this document

The following enhancements are delivered with this release and described in later sections of this guide.

OWB to ODI Changes

OWB to ODI Changes section includes information about the change and modification that was required as a result of changing OWB to ODI. Major changes include modifications to Administrative UI PL/SQL packages, changes to ODS Health Check, changes in Configuration Steps.

Defects and Enhancements

Defects Fixes and Enhancements section includes information about the data coverage enhancements that includes description of the Change request defects resolved, resolutions, and list of new or modified objects (for example, new or changed business concepts, reporting views, columns, and functions).

Documentation Enhancements

Documentation Enhancements section describes major enhancements to the documents such as Install guide, Upgrade guide, Administration guide, Ellucian Analytics Resource Guidelines for this release of Banner ODS.

Prerequisites

Refer to the *Ellucian Analytics Resource Guidelines* document for the most current information about BPRA, Banner, and Third Party product dependencies and compatibility for this release.

You can download the *Ellucian Analytics Resource Guidelines* document from the Ellucian Support Center under the "Banner Operational Data Store" Documentation Library.

Related documentation

You can refer to the following table for documents that contain more details about the Banner ODS:

Document	Description
Banner ODS Installation Guide 9.0	Contains instructions about performing a fresh install of Banner ODS 9.0.
Banner ODS Upgrade Guide 9.0	Contains instructions about upgrading from Banner ODS 9.0.
Banner ODS User Guide 9.0	Includes complete information about the Banner ODS business concepts, data models, reports, and self-service reporting.
Banner ODS Administration Guide 9.0	Includes information about the ODS architecture and maintaining the database using the Administrative User Interface.
Ellucian Analytics Resource Guidelines	Contains hardware and software recommendations.
BPRA Oracle Streams Supplement	Contains information about using Oracle Streams to stage data in Banner ODS.
BPRA Materialized Views Supplement	Contains information about using Oracle Materialized Views to stage data in Banner ODS.
BannerBI Performance Master Tuning Guide	Contains information about tuning your Banner Business Intelligence (BannerBI) database to optimize its performance with BannerBI applications.

OWB to ODI Changes

Following modifications are made with the ODS 9.0 release as the ETL tool, OWB is replaced with ODI.

ODI Integration Packages

MGKMAP

New procedure F_RunODIMap introduced. This function helps to verify whether Scenario exists in ODI repository. A unique number is generated to the scenario and inserted into MGTHOST table. Gets the List of mapping parameters and value from ODI repository. New function F_RunScenario to generates the XML and invokes the agent to execute the scenario through ODI WebService Request. Modified OWB dependencies function / procedures to retrieve ODS mapping details from ODI repository tables.

MGKUTIL

Following new procedures introduced to capture the mapping arguments.

- F_GetODICustomMapParameters
- F_GetodiSystemParameters

ODI Logging Packages

MGKOLIB

Introduced new procedure P_GetODIMapDetails to identify the ODI job number associated with that mapping. Modified OWB dependencies function / procedures to retrieve ODS mapping logs/statistics from ODI repository tables.

While are calling any procedure in mapping Begin / End command like "MGKUTIL.P_DISABLEALLCONSTRAINTS," "MGKUTIL.P_DROPBITMAPINDEXES" etc., then following procedure should be called before calling any of the mapping related procedure.

Begin Command: "MGKOLIB"."P_GETODIMAPDETAILS" (#GLOBAL.SEQNO,1);

End Command: "MGKOLIB"."P_GETODIMAPDETAILS"(#GLOBAL.SEQNO,3);

MGKCRPT

- Modified the cursor (C_GetReportLines) to retrieve ODI Statistics. View error message(s): Modified P_ViewReport to capture ODI error messages.

- Modified to display ODI session details along with DB session while terminating the process.

- Modified OWB dependencies function / procedures to retrieve ODS mapping log/ statistics from ODI repository tables.

ODS Utilities Packages

MGKPROC

Modified OWB dependencies function / procedures to retrieve ODS metadata details from ODI repository tables.

ODS Health Check Packages

MGKODSU

Package performs health check of ODS object.

- Modified the P_CheckMapParms procedure to validate the ODI Scenarios instead of OWB Packages.

- Modified the P_CheckOWBTables procedure to display error for the ODI related Audit tables to archive if it exceeds the limit.

- Modified OWB dependencies function / procedures to retrieve ODS metadata details from ODI repository tables.

Kill Job Process Changes

- With the new changes in Kill job process, there is a new ODI session displayed along with Database session

Configuration Validations from Admin UI

Validating list of ODI Parameters

- Navigate to **Options** > **Set Up Parameters** > **ODI_ENV_VAR_LIST**.

Parameter settings/validation

Validating list of Audit Tables

- Navigate to "Options > Set Up Parameters, and then select "ODI_RAB_TABLE_LIST"

Control Reports

- Introduced ODI session ID (removed Execution id related to OWB)

- Mapping level variables are displayed as Startup Variables

New Parameters in login.sql

- Define the ODI login details and ODI schema details

- Modify the login.sql file located in the <ODS_STAGE_HOME>/ods/(upgrade or Install) depending on new installation or upgrade.

ODI Parameter	Description
ODIAGENTURL	An agent runs on a host, port and is identified on this port by an application name. The agent URL also indicates the protocol to use for the agent connection.
AGENT_SERVER	Host name of the Agent where it is setup
AGENT_PORT	The port number of the Agent.
MASTER_REPO_ USER	Database username of the schema (database, library) that contains the ODI master repository.
MASTER_REPO_ PASS	This Database User Password.
ODI_REPO_SCHE MA_NAME	This parameter refers to the ODI repository schema.
WORKREP	A work repository can be linked with only one master repository for version management purposes.
ODI_USER	Supervisor is the ODI user which allows you to access the ODI.
ODI_PASS	The ODI supervisor password defined when creating the master repository.

ODI Parameter	Description
CONTEXT	Contexts bring together components of the physical architecture (the real Architecture) of the information system with components of the Oracle Data Integrator logical architecture (the Architecture on which the user works).
VERSION	Specify version = -1 in a load plan to pick the recent generated version of the scenario. Otherwise provide the version of scenario.
ODI_DS_PASS	Password for ODI "Data Server" component that lists different schemas utilized within the ODS Data Warehouse schema.

Defects Fixes and Enhancements

The section details about the defects and enhancements that are resolved with this release. Also, new data areas were added and some data areas were modified in few business areas of ODS.

Refer to the following subsections to find specific information on Change Request defects and Enhancements addressed, and data areas added or modified.

- Accounts Receivable

- Advancement

- Finance

- Financial Aid

- Human Resources

- Student

- Degree Works

- IBM Cognos Reports

- Administrative Interface

- Other Defects and Enhancements

Accounts Receivable

The following sections describe the Change request defects and enhancements related to Accounts Receivable.

Primary key creation on ODS to fail during ODS 8.5 upgrade, Patch p1-1b9j738 fix not fully delivered in ODS 8.5

Resolves Change Request Defect CR-000126994

In patch p1-1b9j738_ ods8040102 we have delivered the fix as
ALTER TABLE MTT_STUDENT_TAX_NOTIFICATION
ADD CONSTRAINT MTT_STDNT_TAX_NOTIFTN_INDEX_PK PRIMARY KEY
(PERSON_UID, TAX_YEAR, ID, SEQUENCE_NUMBER);

But in ODS 8.5, the ods_upgrade.sql have
ALTER TABLE
MTT_STUDENT_TAX_NOTIFICATION
ADD CONSTRAINT MTT_STDNT_TAX_NOTIFTN_INDEX_PK PRIMARY KEY
(PERSON_UID, TAX_YEAR, SEQUENCE_NUMBER);

It is missing one column from primary key/
In BANNER,
On base table TTBTAXN, Primary Key is on four columns (which is defect 1-1b9j738 also mention)
PK_TTBTAXN ON TAISMGR.TTBTAXN
(TTBTAXN_PIDM,
TTBTAXN_TAX_YEAR, TTBTAXN_ID, TTBTAXN_SEQ_NUM)

On Banner, if there was no correction done for an existing record, TTBTAXN will only have one row per PIDM, Tax Year and Seq number. More than one record will be in table TTBTAXN for these three columns if there was a correction done. This will cause primary key creation on ODS to fail during ODS 8.5 upgrade.

Solution

Altered MTT_STDNT_TAX_NOTIFTN_INDEX_PK to Include ID
i.e. ALTER TABLE MTT_STUDENT_TAX_NOTIFICATION ADD CONSTRAINT
MTT_STDNT_TAX_NOTIFTN_INDEX_PK PRIMARY KEY (PERSON_UID, TAX_YEAR, ID, SEQUENCE_NUMBER);
Also, updated MGBINDX to include ID column as a part of MTT_STDNT_TAX_NOTIFTN_INDEX_PK.

New objects

No new objects are added.

Modified objects

Composite table: MTT_STUDENT_TAX_NOTIFICATION

Advancement

The following sections describe the Change request defects and enhancements related to Advancement.

Resolved DESC columns not populated for ODSMGR.GIFT and ODSMGR.PLEDGE after application of patch 1-1A8VO7F

Resolves Change Request Defect CR-000117592

In ODSMGR.GIFT and ODSMGR.PLEDGE, following columns are not populated:

- DESG_ORGANIZATION_DESC
- DESG_FUND_DESC
- DESG_ACCOUNT_DESG

It appears there are two versions of F_GET_FINANCE_DESC in FOKODSF, neither of which populate the descriptions in FOAP in GIFT and PLEDGE. This is a defect on top of defect 1-1A8VO7F.

Solution

Modified F_GET_FINANCE_DESC to pass correct values for each input parameter.

New objects

No new objects are added.

Modified objects

Package: GOKODSF

Fixed issue Advancement 8.7.1.4 patch modified APRCHIS_AMT_PLEDGED_PAID

Resolves Change Request Defect CR-000127524

The Advancement patch released for 8.7.1.4 also impacts the ODS since APRCHIS_AMT_PLEDGED_PAID and APRDHIS_AMT_PLEDGED_PAID may now contain 3pp soft credit. This can cause an over statement of total giving amounts in ANNUAL_GIVING as well as CONSTITUENT, ORGANIZATIONAL_CONSTITUENT, CAMPAIGN_GIVING_HISTORY and DESIGNATION_GIVING_HISTORY.

Solution

Modified functions F_GET_TOT_GIVING_YEAR, F_LIFE_TOTAL_GIVING, F_CAMPAIGN_GIVING, F_DESIGNATION_GIVING.

The goal is to remove the third party soft credit payments being stored in aprchis_amt_pledged_paid and aprdhis_amt_pledged_paid when using these amounts to calculate total giving and life giving amounts.

This is done by subtracting third party soft credit amounts from aprchis_amt_pledged_paid and aprdhis_amt_pledged_paid.

New objects

No new objects are added.

Modified objects

Functions:

- F_GET_TOT_GIVING_YEAR

- F_LIFE_TOTAL_GIVING

- F_CAMPAIGN_GIVING

- F_DESIGNATION_GIVING

Corrected PROSPECT_CONTACT_IND column in the CONSTITUENT_CONTACT view is not populating with values

Resolves Change Request Defect CR-000138805

The PROSPECT_CONTACT_IND column in the CONSTITUENT_CONTACT view is not populating with values. Looking at AA_CONSTITUENT_CONTACT, it looks like the SUBSTR in the following case statement is causing the problem.

```
CASE
WHEN C.AMRCONT_GEN_CONTACT_IND = 'Y'
THEN
SUBSTR (G$_NLS.GET ('N', 'SQL', 'N'), 2, 1)
ELSE
SUBSTR (G$_NLS.GET ('Y', 'SQL', 'Y'), 2, 1)
END
```

The base table in banner where CONSTITUENT_CONTACT pulls PROSPECT_CONTACT_IND is AMRCONT. To demonstrate the issue, run the following code:

```
select substr(AMRCONT_GEN_CONTACT_IND, 2, 1) from AMRCONT;
```

select substr(AMRCONT_GEN_CONTACT_IND, 1, 1) from AMRCONT;

The first statement starts the substring in position 2 and this is how the case statement is written in ODS 8.5. The second statement will look at the first position and will return a Y/ N indicator instead of null. In AMRCONT this is a required field so it should not be null. The case statement above is existing logic for PROSPECT_CONTACT_IND.

Workaround would be to modify the view - AA_CONSTITUENT_CONTACT with SUBSTR (G$_NLS.GET ('N', 'SQL', 'N'), 1, 1).

Solution

Updated the SUBSTR function to fetch the correct value for column - PROSPECT_ CONTACT_IND in the view - AA_CONSTITUENT_CONTACT.

New objects

No new objects are added.

Modified objects

Composite View: AA_CONSTITUENT_CONTACT

Finance

The following section describes the Change request defects and enhancements related to Finance.

Resolved Refresh mapping for MFT_OPERATING_LEDGER updating incorrect value for LAST_YEAR_ACTUAL column

Resolves Change Request Defect CR-000114293

The Refresh mapping for MFT_OPERATING_LEDGER incorrectly update LAST_YEAR_ ACTUAL column in composite table MFT_OPERATING_LEDGER. This result in reconcile job showing discrepancy for the same. To correct the issue LOAD mapping for MFT_ OPERATION_LEDGER need to be run In LOAD mapping it uses AF_OPERATING_ LEDGER which take data directly from FGBOPAL. In REFRESH mapping it uses MFVOPAL which joins FGBOPAL and change table FGROCHG.

The column value LAST_YEAR_ACTUAL is calculated in both AF_OPERATING_ LEDGER and MFVOPAL as below.

    SELECT B.FGBOPAL_14_YTD_ACTV
    FROM FGBOPAL B

```
WHERE
TO_NUMBER(TO_CHAR(TO_DATE(B.FGBOPAL_FSYR_CODE,'RR'),
'YYYY')) =
TO_NUMBER(TO_CHAR(TO_DATE(A.fgbopal_fsyr_code,'RR'),
'YYYY')) - 1
AND B.FGBOPAL_COAS_CODE = A.FGBOPAL_COAS_CODE
AND
B.FGBOPAL_FUND_CODE = A.FGBOPAL_FUND_CODE
AND B.FGBOPAL_ACCT_CODE = A.FGBOPAL_ACCT_CODE
AND
B.FGBOPAL_ORGN_CODE = A.FGBOPAL_ORGN_CODE
AND B.FGBOPAL_PROG_CODE = A.FGBOPAL_PROG_CODE
AND
B.FGBOPAL_ACTV_CODE = A.FGBOPAL_ACTV_CODE
AND B.FGBOPAL_LOCN_CODE = A.FGBOPAL_LOCN_CODE
AND
B.FGBOPAL_CMT_TYPE = A.FGBOPAL_CMT_TYPE
```

Any change in value FGBOPAL_14_YTD_ACTV for FSYR inserts a change table record.

But the REFRESH mapping updates MFT_OPRATION_LEDGER for that FSYR but the FGBOPAL_14_YTD_ACTV should get reflected for FSYR+1 for the column LAST_YEAR_ ACTUAL.

Solution

Modified Driver with clause to fetch all the records required for deriving LAST_YEAR_ACTUAL using LAG function in mfvopal.sql.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

- Package: MFVOPAL

- Composite View: MFT_OPERATING_LEDGER

ODS 8.5: LOAD_MFT_TRANS_HISTORY mapping fails while creating Index

Resolves Change Request Defect CR-000127732

After ODS 8.5 upgrade, running LOAD_MFT_TRANS_HISTORY_1 to _5 produce below error LOAD_MFT_TRANS_HISTORY_1 Error in Index Job (P_CREATE_INDEX_33): ORA-00904:

"ACTUAL_FUND_TYPE_LEVEL_2": invalid identifier (Next error).

The index MFT_TRANS_HISTORY_INDEX_05 to MFT_TRANS_HISTORY_INDEX_08 were modified in ODS 8.4.1 but corresponding data was not corrected in MGBINDX.

This didn't cause any error for LOAD in ODS 8.4.1In ODS 8.5 new procedure P_CREATE_INDEX was introduced which rebuild index looking at MGBINDX. Now that MGBINDX entry for MFT_TRANS_HISTORY_INDEX_05 to MFT_TRANS_HISTORY_ INDEX_08 is not correct and Specifically MFT_TRANS_HISTORY_INDEX_05 which uses ACTUAL_FUND_TYPE_LEVEL_2 which is not in table causing the error.

Solution

Indexes from MFT_TRANS_HISTORY_INDEX_05 to MFT_TRANS_HISTORY_INDEX_ 09 is corrected with index column position and dropped columns in MGBINDX that is used rebuild indexes in MFT_TRANS_HISTORY.

New objects

There are no new objects added.

Modified objects

Composite table: MFT_TRANS_HISTORY.

Financial Aid

The following sections describe the Change request defects and enhancements related to Financial Aid.

ODS 8.5: Performance issue with LOAD_MRT_AWARD_ BY_PERSON/UPDATE_MRT_AWARD_BY_PERSON

Resolves Change Request Defect CR-000129750.

After installing or upgrading ODS 8.5, LOAD_MRT_AWARD_BY_PERSON/ UPDATE_MRT_AWARD_BY_PERSON show performance issue.

The view AR_AWARD_BY_PERSON was modified to add new columns Converting an inline select to be part of main join shows performance improvement.

Solution

In AR_AWARD_BY_PERSON removed the inline select from STVMAJR and instead added it to the FROM and WHERE clause.

New objects

No new objects are added.

Modified objects

Composite view: AR_AWARD_BY_PERSON.

Corrected Financial Aid 8.22.1 Loan Rewrite Impact to the ODS

Resolves Change Request Defect CR-000122855

The Financial Aid 8.22.1 Loan Rewrite for Direct Loans impacts the ODS LOAN_DISBURSEMENT and LOAN_APPLICATION reporting views. In order to maintain reporting functionality, the ODS needs to resource and create new reporting views for Direct Loans.

Solution

With Financial Aid 8.22.1, new tables have been introduced for Direct Loans. The impact is mainly around the following objects:

1. LOAN_APPLICATION: Data has been added using new tables RLRPLUS, RLRDBOR, RERCODA, RLRCBID, RERCODS, RLRDMPN, RERCSID, RLRDLOR as a separate data set. LOAN_SOURCE and LOAN_SOURCE_DESC has been added from FINAID_FUND.
   The primary key on MRT_LOAN_APPLICATION was also changed to add AID_YEAR in order to manage occurrences where the loan numbers are not sequential between its two source tables RPRLAPP AND RLRDLOR.

2. LOAN_DISBURSMENT: Data has been added using new tables RLRDLDD, RLRDLPS as a separate data set. LOAN_SOURCE and LOAN_SOURCE_DESC has been added from FINAID_FUND. In order to display loan application data on the disbursement, an additional join was added on aid year between the MRT_LOAN_AP-PLICATION and MRT_LOAN_DISBURSEMENT tables. This is to manage the instance when the loan numbers are not sequential between the two tables, rlrlapp and rlrdlor.
   CALC_EXPECTED_DISBURSEMENT_AMT will be populated with the new column RLRDLDD_NET_AMOUNT for aid years '1516' and beyond. CALC_EXPECT-ED_DISBURSEMENT_AMT will still use the function ROKODSF.F_GET_CALC_DIS-BURSE_AMT for aid years less than '1516'.

3. FINAID_FUND: Two new columns have been added to identify LOAN_SOURCE and LOAN_SOURCE_DESC. Moreover LOAN_FEE_PERCENT, REBATE_FEE_PER-CENT columns will no longer be used for aid years '1516' and beyond.

4. RNKNEED package: Functions F_CALC_BUDGET_AMT, F_GET_NEED_DATA, F_CALC_OFFER_AMT have been synced with 8.18.1 changes from Finaid's RNK-NEED.

5. FUNCTION: ROKODSF.F_UNSATISFIED_PROM_NOTE was modified to determine if an unsatisfied promissory note still exists from RFRPROM only for aid years < '1516'. For aid years '1516' and beyond, the table RLRDMPR is tested for the existence of unsatisfied promissory notes.

New objects

No new objects are added.

Modified objects

Tables:

RLRPLUS, RLRDBOR, RERCODA, RLRCBID, RERCODS, RLRDMPN, RERCSID, RLRDLOR, RLRDLDD, RLRDLPS

Packages:

- F_CALC_BUDGET_AMT, F_GET_NEED_DATA

- F_CALC_OFFER_AMT

- ROKODSF.F_UNSATISFIED_PROM_NOTE

Composite tables:

- MRT_LOAN_APPLICATION

- MRT_LOAN_DISBURSEMENT

Reporting views:

- ODS LOAN_DISBURSEMENT

- LOAN_APPLICATION

Fixed Financial Aid 8.23 final direct loan mapping changes need same changes applied to the ODS

Resolves Resolution Change Request Defect CR-000125952.

Financial Aid 8.23 release adds more new direct loan tables to complete the loan rewrite begun in 8.22.1. These new tables need to be remapped into LOAN_APPLICATION and LOAN_DISBURSEMENT to complete comprehensive reporting on both.

Solution

With Financial Aid 8.23, new tables have been introduced for Direct Loans. Following reporting views are modified to use new source tables.

LOAN_APPLICATION: New tables has RERCDED, RLRDLBN, RLRPAPP, ROBBBAY

LOAN_DISBURSMENT: New Tables RERCDED, RLRDLDB, RLRDDAS

AWARD_BY_PERSON: uses RPRAPTRM and new tables ROBBBAY, RTVBBTP

Updated the primary key on MRT_LOAN_APPLICATION with the newly added columns.

New objects

No new objects are added.

Modified objects

Tables

- RERCDED, RLRDLBN, RLRPAPP, ROBBBAY, RERCDED, RLRDLDB, RLRDDAS, RPRAPTRM, ROBBBAY, RTVBBTP

Composite table

- MRT_LOAN_APPLICATION.

Reporting views:

- LOAN_APPLICATION
- LOAN_DISBURSMENT
- AWARD_BY_PERSON

Human Resources

The following sections describe the Change request defects and enhancements related to Human Resources (HR).

Resolved Error in job LOAD_MPT_LEAVE_ACCRUAL

Resolves Enhancement CR-000132553

For job LOAD_MPT_LEAVE_ACCRUAL, it took (1m 22S) to complete the job in ODS 8.3 but it took (73h 16m 27s) to complete in ODS 8.5. The number of rows increased from 419850 to 1260303045.

Solution

Updated the join between PHRJACR and PHRJOBS to include PIDM, YEAR, PICT_CODE, PAYNO and SUFF columns along with the existing join on POSN.

New objects

No new objects are added.

Modified objects

Composite view: AP_LEAVE_ACCRUAL

Student

The following sections describe the Change request defects and enhancements related to Student.

Fixed the Address Refresh Not Including Changed SATURN table data when using MViews

Resolves Change Request Defect CR-000104564

During the nightly REFRESH_ALL_ODS_EDW_EM job execution, the REFRESH_ GENERAL is run before the REFRESH_STUDENT. This presents a problem when using MViews.

MView group ODS_REFGROUP_GENERAL is refreshed as part of the REFRESH_ GENERAL, followed by DELETE_MST_ADDRESS and UPDATE_MST_ADDRESS.

Then REFRESH_STUDENT runs, which refreshes MView group ODS_REFGROUP_ STUDENT. Changes made to SPRADDR to not be refreshed until ODS_REFGROUP_ STUDENT, but the data is needed for the refresh of MST_ADDRESS, which is done previously in the REFRESH_GENERAL. This means those updates do not get applied until the next day. SPRPCHG table contains many rows after the REFRESH_ALL_ODS_ EDW_EM job has completed.

This is also an issue for Hold, Institution, Medical Information, Organization Entity, Person, Telephone, Visa, Race, Inst Characteristic, and Inst Demographic

Solution

Run the STUDENT Mview refresh before REFRESH_ALL / REFRESH_GENERAL

or

Run the STUDENT Mview refresh before LOAD_ALL / LOAD_GENERAL.

New objects

No new objects are added.

Resolved the ODS impact due to banner Student 8.10 enhancements of Test Score variable length

Resolves Change Request Defect CR-000140463

Banner Student 8.10 release enhancements of Test Score variable length impacts on ODS. Mappings that uses Test_Score as a column will fail if the data in the banner source is greater than 5 character (the banner student can accommodate up to 15 chars now as compared to 5 earlier). The following ODS Composite tables MST_COURSE_PREREQ, MST_TEST, MST_OFFERING_PREREQ and the associated reporting views COURSE_ PREREQ, TEST, OFFERING_PREREQ.

 Need to make changes in the impacted OWB scripts and mappings.

Solution

Altered the tables, MST_COURSE_PREREQ, MST_TEST and MST_OFFERING_ PREREQ to modify the column length from VARCHAR2(5) to VARCHAR2(63).

New objects

No new objects are added.

Modified objects

Composite Tables:

- MST_COURSE_PREREQ, MST_TEST

- MST_OFFERING_PREREQ

Changes to reflect new values delivered for the Veteran Classification delivered with the Banner Student 8.7

Resolves Change Request Defect CR-000124495

Changes are required for ODS to reflect new values that are delivered for the Veteran Classification were delivered with the Banner Student 8.7:

Veteran Category field has been renamed Veteran Classification.

New values are delivered for the Veteran Classification field.

- Not a Veteran

- Protected veteran (choosing not to self-identify the classification)

- Not a Protected Veteran

- Active Wartime or Campaign Badge Veteran Active Duty

Separation Date field has been renamed Date of Discharge.

Special Disabled Veteran field has been renamed Disabled Veteran

Solution

Modified VETERAN_CATEGORY_DESC in AS_PERSON view.

```
Changed to:
SUBSTR (
DECODE (
SPBPERS_VERA_IND,
NULL, NULL,
'O', G$_NLS.GET ('SPVPER0-0001', 'SQL',
'Other Protected Veteran Only'),
'V', G$_NLS.GET ('SPVPER0-0002', 'SQL', 'Vietnam Veteran
Only'),
'B', G$_NLS.GET ('SPVPER0-0003', 'SQL', 'Both - Vietnam
and Other Eligible Veteran')),
1,
255)
VETERAN_CATEGORY_DESC
Also,
MST_PERSON.VETERAN_CATEGORY_DESC was altered from
VARCHAR2(63) to VARCHAR2(255)
```

New objects

No new objects are added.

Modified objects

- Composite table: MST_PERSON
- Composite View: AS_PERSON

Degree Works

The following section describe the Change request defects and enhancements related to Degree Works Interface.

Fixed UPDATE_MDT_AUDIT_STUDENT_BLOCK fails with error ORA-01722: invalid number

Resolves Change Request Defect CR-000126618

In ODS 8.5, the UPDATE_MDT_AUDIT_STUDENT_BLOCK fails with ORA-01722: invalid number. The mapping takes value from MDVSTBK view and a select on this view fails with same error.

The failure is on the Driver portion of view
WITH
DRIVER AS
(SELECT R.*,
TO_NUMBER(RTRIM(RAD_USER_DEF1)) RAD_USER_DEF1,
DASBCHG_TABLE_NAME,
DASBCHG_RECORD_ACTION,
DASBCHG_PROCESS_ID,
DASBCHG_ACTIVITY_DATE
FROM
DAP_RESULT_DTL R,
RAD_PRIMARY_MST P,
DASBCHG C
WHERE R.DAP_RESULT_TYPE IN ('BLOCKGPA', 'FALLCRCL',
'OTLCRCL', 'INSUFFCRCL')
AND R.DAP_STU_ID = RAD_ID
AND RAD_USER_DEF1 = DASBCHG_PIDM
AND
RTRIM(R.DAP_AUDIT_TYPE) = DASBCHG_AUDIT_TYPE
AND RTRIM(R.DAP_ACTIVE_TERM) = DASBCHG_TERM
AND
RTRIM(R.DAP_SCHOOL) = DASBCHG_SCHOOL
AND RTRIM(R.DAP_DEGREE) = DASBCHG_DEGREE
AND
R.DAP_BLOCK_SEQ_NUM = DASBCHG_SEQ_NUM
AND DASBCHG_TABLE_NAME = 'MDT_AUDIT_STUDENT_BLOCK'
AND
DASBCHG_PROCESS_ID = 'MDT_AUDIT_STUDENT_BLOCK')

The error occur when RAD_USER_DEF1 column of RAD_PRIMARY_MST has space (and not NULL) causing the "RAD_USER_DEF1 = DASBCHG_PIDM" fails. RTRIM function on RAD_USER_DEF1 in WHERE clause " AND RAD_USER_DEF1 = DASBCHG_PIDM".

Solution

Modified DRIVER WITH clause Sql to include RTRIM on RAD_USER_DEF1

RTRIM(RAD_USER_DEF1) = RTRIM (DASBCHG_PIDM) in mdvstbk.sql

New objects

No new objects are added.

Modified objects

Package: MDVSTBK

Resolved Degree works errors due to having different schema names between Source and Target

Resolves Change Request Defect CR-000128163

Degree Works errors during the run of step 22.2 "sqlplus/nolog @degreeworks_etl_upgrade.sql" due to having different Degree Works schema names between Source (named dgworks) and Target database (named dwschema).

Do the schema names have to be the same in order to add Degree Works module to OWB?

Solution

Modified scripts to use parameterized Degree Works source schema name through SQL*PLUS variable as specified in login.sql

New objects

No new objects are added.

Fixed two MINGPA requirements scribed within a Block causes a unique constraint issue loading mdt_audiit_student_block

Resolves Change Request Defect CR-000125737

AUDIT_STUDENT_BLOCK has a column to identity the minimum GPA required for the block requirements. It was found that multiple MINGPA block requirements can be scribed within the block. The design only considered the possibility of loading one MINGPA. Consequently, if clients scribe two or more MINGPA's for the block a unique constraint is violated when loading mdt_audit_student_block. Solution is to change the code to extract the first MINGPA identified within the block in dap_results_dtl since there is no way to distinguish which MINGPA to extract.

Solution

Made changes to the logic populating minimum_gpa. Now it extracts the first row based upon the minimum value of dap_result_seq_num. Modified views are AD_AUDIT_ STUDENT_BLOCK and MDVSTBK.

New objects

No new objects are added.

Modified objects

Composite Views:

- AD_AUDIT_STUDENT_BLOCK

- MDVSTBK

Fixed error LOAD_Degreeworks returns ORA-00001 on ODSMGR. MDT_REGISTRATION_PLAN_PK when Degreeworks 'Plan' option used

Resolves Change Request Defect CR-000138750

LOAD_Degreeworks returns ORA-00001 on ODSMGR. MDT_REGISTRATION_PLAN_PK when Degreeworks 'Plan' option used.

Unique constraint violated, ORA-00001 on ODSMGR. MDT_REGISTRATION_PLAN_PK can be returned if running the LOAD_ DEGREEWORKS step in the ODS 8.5 Install or Upgrade when using the DegreeWorks' new "Plan" instead of the old "Planner" option. This primary key constraint, as delivered, requires a unique combination of the following fields: PERSON_UID, ACADEMIC_PERIOD, PLAN_KEY and PLAN_SEQUENCE_NUMBER. There is a part of the "plan" page where you can add a "Choice" record. It is there that the DegreeWorks system creates a new TERM_ID for the same term description requiring the academic_period_id to be added to the MDT_REGISTRATION_PLAN_PK.

None of the 4 possible solutions in article 000035449 LOAD_DEGREEWORKS or LOAD_MDT_AUDIT_STUDENT_BLOCK returns unique constraint errors will fix the issue.

Solution

Modified MDT_REGISTRATION_PLAN_PK to Include ACADEMIC_PERIOD_KEY as Primary key.

New objects

No new objects are added.

Modified objects

Composite table: MDT_REGISTRATION_PLAN

IBM Cognos Reports

The following section describe the Change request defects and enhancements related to Cognos.

Reporting Tool - Resolved Cognos aggregation issue in schedule_offering

Resolves Change Request Defect CR-000131860

Cognos aggregation issue in ODS 8.5 The schedule_offering aggregation is not correct when joining in the meeting_time view to schedule offering in the schedule_offering package. This occurs when meeting_time has more than one related record to the schedule_offering view.

Procedure to recreate:

1. Create a course in the class schedule that has multiple meeting_time records

2. Run a simple report that utilizes just fields from the schedule_offering view and notice the credit hours as an example

3. Add a field from the meeting_time view and notice the aggregation now becomes incorrect

Ct. fixed the aggregation issues between schedule_offering and meeting_time in the schedule_offering package by doing the following:

1. Change the relationship to the actual relationship of 0:N between schedule_offering and meeting_time.

2. Add a unique key determinant to schedule_offering view.

Fixed Purchasing Payable Package - PO Commodity Level Accounting Record Filter Issue

Resolves Change Request Defect CR-000135746

The PO Commodity Level Accounting Record filter delivered with the purchasing payable package has incorrect constraints. The result is data gets dropped from the result set.

Solution

1. Remove below filters from Purchasing Payable package:

   Filter 1: Invoice Commodity Level Accounting Record under Invoice Accounting Filters.

   Filter 2: PO Commodity Level Accounting Record under Purchase Order Accounting Filters.

2. Remove below filter from Invoice Payable package:

   Filter: Commodity Level Accounting Record under Invoice Filters.

New objects

No new objects are added.

Modified objects

Filters in Purchasing Payable package

- Invoice Commodity Level Accounting Record

- PO Commodity Level Accounting Record

Filter in Invoice Payable package

- Commodity Level Accounting Record

Fixed Admission Application Model Showing Duplicate Relationships

Resolves Change Request Defect CR-000138515

The Admission Application Model has several "copies" of the same relationships showing when working through Framework Manager. This is resulting in the "Context Explorer" view NOT being usable.

Solution

Removed the redundant relationships in ODS folder with in the ODS FM model (bv).

New objects

- No new objects are added.

Missing columns in Financial Aid Award and Disbursement and Financial Aid Application namespace

Resolves Change Request Defect CR-000136791

The delivered Cognos ODS 8.5 Financial Aid Framework Manager model are inconsistent with the details referenced in the release guide. Specifically, the following needs to bring it into conformity with the release guide.

1. Need to add the below columns to the Loan Aggregates query subject under Financial Aid Award and Disbursement namespace.

   a. PELL_LIFETIME_ELIGIBILITY_USED

   b. PELL_LIFETIME_LIMIT

   c. PELL_LIFETIME_LIMIT_DESC

   d. ENROLLMENT_PATTERN

   e. ENROLLMENT_PATTERN_DESC

f. SUBSIDIZED_150_USAGE_LIMIT_IND

g. SUBSIDIZED_LOAN_YEARS_USE

h. EXCEED_SUBSIDIZED_LIMIT

i. EXCEED_SUBSIDIZED_LIMIT_DESC

j. EXCEED_COMBINED_LIMIT

k. EXCEED_COMBINED_LIMIT_DESC

l. EXCEED_GRAD_SUBSIDIZED_LIMIT

m. EXCEED_GRAD_SUB_LIMIT_DESC

n. EXCEED_GRAD_COMB_LIMIT

o. EXCEED_GRAD_COMB_LIMIT_DESC

2. Need to delete the unwanted columns(EXPECTED_ENROLL_STATUS1 and EXPECTED_ENROLL_STATUS_DESC1) from Finaid Applicant Status query subject under the following namespaces

a. Admission Application

b. Financial Aid Application

c. Financial Aid Award and Disbursement

d. Human Resource Application

e. Loan Disbursement

f. Person Role.

Solution

1. Add new columns as below to the Loan Aggregates query subject under Financial Aid Award and Disbursement package.

a) PELL_LIFETIME_ELIGIBILITY_USED

b) PELL_LIFETIME_LIMIT

c) PELL_LIFETIME_LIMIT_DESC

d) ENROLLMENT_PATTERN

e) ENROLLMENT_PATTERN_DESC

f) SUBSIDIZED_150_USAGE_LIMIT_IND

g) SUBSIDIZED_LOAN_YEARS_USE

h) EXCEED_SUBSIDIZED_LIMIT

i) EXCEED_SUBSIDIZED_LIMIT_DESC

j) EXCEED_COMBINED_LIMIT

k) EXCEED_COMBINED_LIMIT_DESC

l) EXCEED_GRAD_SUBSIDIZED_LIMIT

m) EXCEED_GRAD_SUB_LIMIT_DESC

n) EXCEED_GRAD_COMB_LIMIT

o) EXCEED_GRAD_COMB_LIMIT_DESC

2. Delete the redundant columns "EXPECTED_ENROLL_STATUS1" and "EXPECT-ED_ENROLL_STATUS_DESC1" from Finaid Applicant Status query subject under multiple namespaces (Admission Application, Financial Aid Application, Financial Aid Award and Disbursement, Human Resource Application, Loan Disbursement, Person Role).

New objects

- No new objects are added.

Modified objects

- Reporting Tools Business Concept changes

  FM model changes: Add the following new columns to Loan Aggregates query subject(Namespace: FinAid Award & Disbursement)

  - PELL_LIFETIME_ELIGIBILITY_USED

  - PELL_LIFETIME_LIMIT

  - PELL_LIFETIME_LIMIT_DESC

  - ENROLLMENT_PATTERN

  - ENROLLMENT_PATTERN_DESC

  - SUBSIDIZED_150_USAGE_LIMIT_IND

  - SUBSIDIZED_LOAN_YEARS_USE

  - EXCEED_SUBSIDIZED_LIMIT

  - EXCEED_SUBSIDIZED_LIMIT_DESC

  - EXCEED_COMBINED_LIMIT

  - EXCEED_COMBINED_LIMIT_DESC

  - EXCEED_GRAD_SUBSIDIZED_LIMIT

  - EXCEED_GRAD_SUB_LIMIT_DESC

  - EXCEED_GRAD_COMB_LIMIT

  - EXCEED_GRAD_COMB_LIMIT_DESC

- Delete following columns from Finaid Applicant Status query subject from multiple namespaces:

  - EXPECTED_ENROLL_STATUS1

  - EXPECTED_ENROLL_STATUS_DESC1.

Administrative Interface

The following section describe the Change request defects and enhancements related to Administrative Interface.

Corrected Control Report STATUS incorrectly set for errors with jobs with multiple ETL PACKAGE entries

Resolves Change Request Defect CR-000106459

If a job contains an ETL CONTROL GROUP that has >1 ETL PACKAGE entry in it, the return code is not correctly tracked/reported. Only the return code of the last ETL PACKAGE entry is used to update the job Status code value, so errors/warnings in the previous ETL PACKAGE procedures are not correctly reflected in the overall CR status.

Solution

Updated "errflag" Parameter handling in P_RunPackages to better track/report errors for jobs w/ multiple ETL PACKAGE entries.

New objects

No new objects are added.

Modified objects

Package: MGKMAP

Resolved error after upgrading to ODS 8.5 STAGE_AREA_STATUS shows P_STAGED_TABLES

Resolves Change Request Defect CR-000125246

After upgrading to ODS 8.5 with both Banner and Degree Works tables are staged with Materialized Views, the STAGE_AREA_STATUS shows errors P_STAGED_TABLES Error querying MLOG: DWSCHEMA.MLOG$_DAP_REQ_MST when the Banner source is selected.

The error indicates that it is using a Banner DB Link instead of the Degree Works DB Link.

When running the Stage Status Report, you select upon which source you want to report. The report seems to be attempting to report on all Mviews, regardless of their source. So, the Mviews that do not match the selected source database will produce errors. It should only report on Mviews sourced from the selected source database.

Solution

Modified Cursor C_GET_STAGED_MV_LIST to include Database link check in mgkstg1.sql

New objects

No new objects are added.

Modified objects

Package: MGKSTGU

Resolved Error "Change Table Check Failure" while Running ODS reconciliation for Mapping with UNION LOGIC

Resolves Change Request Defect 1-1FQGVXJ

Get an error in reconciliation report "Change Table

Check Failure Below is the query constructed:"

This happens if the mapping has UNION defined in MTVPARM (MTVPARM_INTERNAL_ CODE_GROUP = 'ETL MAP PACKAGE RECONCILE LOGIC' and MTVPARM_ EXTERNAL_CODE = 'UNION') and there is discrepancy.

Solution

Modified P_DoReconcileRowCounts to fetch Correct Reconcile SQL for UNION Logic when there is Change table check failure.

New objects

No new objects are added.

Modified objects

Package: MGKODSU

RECONCILE_STAGE_TABLE – MGKUTIL.P_ LoadMappingsToRun not listing all necessary mappings

Resolves Change Request Defect CR-000108442

In ODS 8.4.1, the RECONCILE_STAGE_TABLE job created a "Load for Recently Restaged Tables" job that had a couple of issues after restaging STVMAJR.

First, it only included LOAD_MST_GENRL_STDNT_STEP_2 and not LOAD_MST_GENRL_STDNT_STEP_1, which caused our MST_GENERAL_STUDENT table to not have all of the rows that it should have.

Second, there was no mapping included for the MST_ACADEMIC_OUTCOME table, even though the PROGRAM_CLASSIFICATION field is sourced from STVMAJR. This should have included mapping LOAD_MST_CURRICULUM_BATCH.

The procedure (MGKUTIL.P_LoadMappingsToRun) that derives the list of mappings that are related to a given stage table needs to be updated to account for "secondary dependencies".

Solution

Changes to P_LoadMappingsToRun. Modified Cursor C_GetMap Packages to fetch related mapping details for the main ETL LOAD job stream.

New objects

No new objects are added.

Modified objects

Package: MGKUTIL

Control Report Status not display ERROR when there are mapping errors

Resolves Change Request Defect CR-000120008

When there is a single mapping fail within a group like LOAD_FINAID, the control report still reads as "Completed" so that we have to review every control report in detail to find that we have a mapping failure. This makes it more difficult to be alerted to problems when they occur.

Solution

Corrected ODI checks for Procedure status and Errors.

Modified "C_GetReportLines" procedure to capture ODI log statistics. In ODI statistics, the number of records are "Error" out will also be captured instead of "Discarded" in OWB.

New objects

No new objects are added.

Modified objects

Package: MGKCRPT

Jobs cause the indexes on the partitions unusable after load job

Resolves Change Request Defect CR-000127632

After running LOAD_MPT_PAYROLL_DIST_PARTx, LOAD_MFT_TRANS_HISTORY_x_ PART, or LOAD_MST_STUDENT_COURSE_PARTx these jobs cause the indexes on the partitions to go UNUSABLE. I can rebuild the indexes manually and then run the jobs again with the rebuild index option but it still causes the indexes to be UNUSABLE.

Solution

ODSMGR.ADD_EXCHANGE_PARTITION procedure is placed with working script in GIT, the earlier script was not complete. This will rebuild indexes correctly.

New objects

No new objects are added.

Modified objects

Procedure: ADD_EXCHANGE_PARTITION

Publishing ODS/EDW metadata fails with ORA-01722: invalid number

Resolves Change Request Defect CR-000126654

Running Publish Metadata report for ODS/EDW fails with ORA-01722: invalid number

Cause: The new function F_Is_PublishableArea is expecting the VARCHAR parameter passed to it as NUMBER to compare against column SUBJECT_AREA_ID which is defined as NUMBER in WMT_SUBJECT_AREA.

Solution

Modified mgkpubl.F_Is_PublishableArea to include below code in Cursor C_GotSA:

```
SELECT SUBJECT_AREA_ID
    FROM WMT_SUBJECT_AREA
    WHERE
SYSTEM_ID = 2
    AND SUBJECT_AREA_ID = DECODE (
```

```
REGEXP_INSTR( TRIM(p_subj_id), '[^[:digit:]]'  ) , 0 ,
TRIM(p_subj_id) , NULL )
    AND SUBJECT_AREA_ID <> (CASE WHEN ia_type
= 'COMP' AND DECODE(REGEXP_INSTR( TRIM(p_subj_id), '[^[:
digit:]]'  ), 0 , TRIM(p_subj_id) , null ) = '13' THEN
13 ELSE 12 END)
```

New objects

No new objects are added.

Modified objects

Package: MGKPUBL

Resolved Refresh in Parallel Mode Causes Problems

Resolves Resolution Change Request Defect CR-000132133

UPDATE_MST_GENRL_STDNT_STEP_1 and
UPDATE_MST_GENRL_STDNT_STEP_2

Both are under the same parallel group.

Solution

Modified script-mtvparm_data_ods_parallel.sql to remove
'UPDATE_MST_GENRL_STDNT_STEP_2' from 'REFRESH_STUDENT-P-W-4' and add
it to 'REFRESH_STUDENT-P-W-5' group.

New objects

No new objects are added.

Modified objects

Script: mtvparm_data_ods_parallel.sql

Resolved ODS Freeze process receives ORA-01460

Resolves Change Request Defect 1-109WQDD

While trying to set up a Freeze Data Table in the Admin UI, you receive the following error
on the Source Columns to Freeze parameter: "ORA-01460 unimplemented or
unreasonable conversion requested".

This occurs when the list of column names exceeds 4000 characters, due to the use of a VARCHAR2 data type in the package.

Solution

Modified MGKFZTB and MGKPREZ package to use CLOB data type in p_column_list_in.

New objects

No new objects are added.

Modified objects

Packages: MGKFREZ and MGKFZTB

Other Defects and Enhancements

The following section describes the miscellaneous Change request defects and enhancements.

MGKOUTL.p_bxe_health_check IGNORE parameter ignores all but first option

Resolves Change Request Defect CR-000138111

The procedure MGKOUTL.p_bxe_health_check, used for the ODS Preprocessor, can take a parameter named IGNORE which is a string that can contain multiple flags used to tell the procedure to ignore certain situations when running the health check.

However this procedure is coded in such a way that it will only find the first option in the IGNORE parameter and ignore all other options.

This block of code contains checks on the IGNORE parameter using the Oracle INSTR function. The INSTR function returns the position in the string (the index) where the string is if it finds it, or zero if no string is found. The code for each check looks like this:

```
IF(INSTR(LOWER(ignore),
'check_dbeu_installation') = 1)THEN
check_dbeu_installation := FALSE;
END IF;
```

It is checking whether or not the result of INSTR is 1. This means the code will only work if for the very first value present in the IGNORE parameter. If multiple values are given, only the first is found and the rest are ignored. The fix is to change these checks to look for a return value from INSTR greater than zero; like this:

```
IF(INSTR(LOWER(ignore),
'check_dbeu_installation') > 0)THEN
```

```
    check_dbeu_installation := FALSE;
    END IF;
```

Solution

Modified IGNORE parameters to include INSTR check > 0 in in p_bxe_health_check.

New objects

No new objects are added.

Modified objects

Package: MGKOUTL

ODS Pre-processor for Banner XE database link check error

Resolves Change Request Defect CR-000136491

As part of the ods_prebxe_step_1.sql script run during a banner update a check is performed for a database link on the ODS side owned by ODSSTG that points back to Banner.   A call is made from the ODSSTG.MGKOUTL.P_BXE_HEALTH_CHECK API across the database link pointing to ODS to run the procedure ODSSTG.P_STAGE_HEALTH_CHECK on the ODS side.

The following code fragment from this procedure implicitly assumes the presence of a private database link. However, if the system is using public database links instead of private ones the owner of the dblink will be "PUBLIC" not ODSSTG. Hence for public database links this procedure incorrectly reports a missing database link point to banner.

```
EXECUTE IMMEDIATE 'SELECT COUNT(*) '||
'FROM
DBA_DB_LINKS, '||
'(SELECT MTVPARM_EXTERNAL_CODE '||
'FROM MTVPARM '||

'WHERE MTVPARM_INTERNAL_CODE_GROUP = ''STAGE
CONFIGURATION'' '||
'AND MTVPARM_INTERNAL_CODE = ''SOURCE ALIAS'' '||
'AND
MTVPARM_INTERNAL_CODE_2 = ''BANNER'') '||
'WHERE DB_LINK LIKE MTVPARM_EXTERNAL_CODE '||
'AND
OWNER = ''ODSSTG''' INTO sql_output_number;
```

Solution

Code modified to check for PUBLIC dblink in ODSSTG.P_STAGING_HEALTH_CHECK.

New objects

No new objects are added.

Modified objects

Procedure: P_STAGING_HEALTH_CHECK

Resolved preprocessor errors due to variable in the procedure P_PRE_EXTEND_BXE_PROCESS that is small

Resolves Change Request Defect CR-000126003

Steps 2 of the Banner ODS Preprocessor (for ODS 8.5 new installation, with materialized views) will sometimes receive the following error:

ERROR at line 1:

ORA-20000: Unexpected error in the "MGKOUTL.p_pre_extend_bxe_process" procedure at step "Execute the Mview refresh": "ORA-06502: PL/SQL: numeric or valueerror: character string buffer too small "ORA-06512: at "ODSSTG.MGKOUTL", line 1602ORA-06512: at line 8.

The error is caused by a defined variable in the procedure P_PRE_EXTEND_BXE_ PROCESS that is too small.

Solution

Changed parameter STMT datatype from VARCHAR to CLOB in perform_mviews_ refresh.

New objects

No new objects are added.

Modified objects

Package: MGKOUTL

Resolved ODS 8.5: Script to create Database link from Degree Works to ODS is not delivered for streams configuration

Resolves Change Request Defect CR-000128191

ODS 8.5, both Install and upgrade, didn't deliver script to created database link from Degree works (Source) to ODS (Target). This Database link is needed for streams.

WorkAround:
Login as ODSSTG on Degree Works database
CREATE
DATABASE LINK &destination_global_name CONNECT TO
odsstg IDENTIFIED BY "&odsstg_destination_password"
USING - '(DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP) (Host = &destination_host) (PORT = &destination_port))) (CONNECT_DATA = (SERVICE_NAME = &destination_global_name)))';
When prompted for Destination details, please enter ODS database details.

Note: For Mview clients this missing Database link from source to target won't have any impact.

Solution

Modified odsstg_degreeworks_install.sql file to create Database link from Banner ODSSTG.

New objects

No new objects are added.

Documentation Enhancements

This section describes major enhancements to the documentation for Banner ODS 9.0 release.

Install Guide

The Install guide is modified to include ODI related changes and removed the content relevant to OWB. *Install Banner ODS* chapter is modified to include the ODI related installation and configuration process.

The Other major changes include removal of *OMB* Plus* section, and addition of sections, such as *Install & configure Oracle Data Integrator (ODI)*, *Troubleshooting*, and *FAQs*.

Upgrade Guide

The upgrade guide is modified to include ODI related changes and the OWB related content is removed. Details about the ODS target upgrade, ODI metadata import, and file upgrade process are also updated in this document. The *Upgrade steps – Banner ODS 8.5 to 9.0* chapter is modified to include the ODI related installation and configuration process.

Administration Guide

The sections that refers to ODS are modified to include changes required as a result of introducing ODI as an ETL tool.

Ellucian Analytical Resource Guidelines

The guide is updated with ODI and ODS 9.0 related changes. Key changes are updating the *BI product compatibility matrix,* and adding a new section *"ODI Architecture Overview"* in the chapter, *Ellucian Recommendations*.

Other document lists included with this product

This section lists documentation that contains the technical information that you can use for administrative functions. They are typically delivered as *.csv files and can be opened in Microsoft Excel or a similar spreadsheet application. You can reorganize the columns as needed.

Banner ODS changed objects

The Banner ODS 9.0 Changed Objects.csv file includes a detailed list of the objects (views, tables, columns) that are added, changed, or removed with this release. To view the list, access the Banner ODS 9.0 Changed Objects.csv file, which was delivered with your product documentation.

Banner ODS Cognos filters

The Banner ODS 9.0 Cognos Filters Reference.csv file includes a detailed list of the filters added to ODS Cognos model. To view the list, access the Banner ODS 9.0 Cognos Filters.csv file, which was delivered with your product documentation.

Banner ODS display rules

The Banner ODS 9.0 displayRulesXREF.csv file lists all display rules delivered as part of Administrative User Interface. To view the list, access the Banner ODS 9.0 displayRulesXREF.csv file, which was delivered with your product documentation.

Problem Resolutions

For comprehensive and detailed problem, impact, and resolution information for all defects corrected in the release, refer to the supplemental problem resolutions file (Banner ODS 9.0 Resolutions) delivered with the release guide.

The information in the file is extracted directly from the Customer Support Center just prior to release of the product and may include additional defects that were resolved after this document was finalized. You can also access information about defects and their resolutions through the Customer Support Center.