Information Technology Services
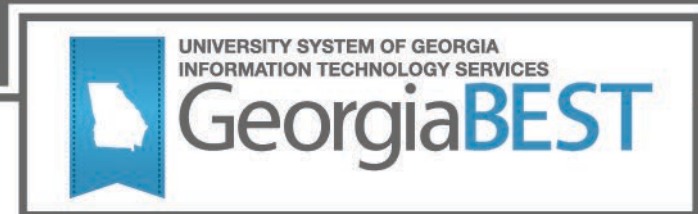

Test Plan

Academic Release 1.10

Contents

Test Plan for Academic Release 1.10

Preparation for Testing

The Academic Release 1.10 and Data Collections ETL (ZADMETL) 1.3 must be applied to your TEST database used to prepare for testing. Please follow the steps below to prepare for testing the release:

Step 1

Apply the Academic Release 1.10 to the Banner database using the parameters for Fall EOT 20222.

Step 2

Setup and/or identify test cases for testing the extraction and editor.

Step 3

In Banner, run the Data Collection Extraction process (ZADMETL) from Banner Job Submission (GJAPCTL).

Step 4

Turn on the ITS version of GlobalProtect VPN. For download, install, and login instructions, email DW_Test@usg.edu.

Step 5

Run the USG Extract in the TEST environment using the following URL:

https://appst.ds.usg.edu/ords/f?p=38576

Step 6

Review the Data Submission Error report to validate changes included in the release in the Cognos TEST environment using the following URL:

https://analytics.tst.usg.edu/cognos/cgi-bin/cognos.cgi

Data Element Dictionary (DED) Updates for Country Codes

Purpose

The purpose of this change is to update the source of valid country codes in the Data Element Dictionary (DED).

The Academic Data Collection (ADC) current uses country codes that are based on the Federal Information Processing Standard (FIPS) 10-4. The country codes found by following the business practice links in the DED are based on International Organization for Standardization (ISO 3166) country codes. The DED links have been replaced with the path to the Cognos Country Reference Report.

Functionality delivered with this release:

The Business Practice section of the following data elements was updated:

- Graduation Address – Country (SGA006)

- Country of Citizenship (SGR009)

- Country of Citizenship (STE019)

- Permanent Address – Nation (STE062)

- Enrolled Student Current Address – Nation (STE096)

Test Scenario 1:

In Cognos, generate a data element dictionary using the Data Dictionary > Download PDF option.

- Verify the following changes to data element Graduation Address – Country (SGA006):

  - The Business Practice section displays the following:
    - The address collected at the time of graduation for the student. The address type is RGTMADD on GTVSDAX.

      Valid country code values can be found in Cognos under Reference Code Reports > Reference Tables > Country Reference Report.

  - The Data Source section displays the following:
    - Provider: Banner
    - Table: SPRADDR
    - Column: SPRADDR_NATN_CODE
    - GUI Name: SPAIDEN
    - GUI Label: Nation on Address Tab
    - SOAXREF Translation: RGTNATN

- o The Change History section displays the following:
  - ▪ Academic Term: 20222
  - ▪ Change Date: Nov 24, 2021
  - ▪ Change Notes: Edited the Business Practice and Data Source.

Testing successful? (circle one) Yes / No

Test Scenario 2:

Using the data element dictionary generated in Test Scenario 1,

- Verify the following changes to data element Country of Citizenship (SGR009):
  - o The Business Practice section displays the following:
    - ▪ U.S. possessions, protectorates, and territories should be treated as states and thus coded US. US include American Samoa, N. Mariana Islands, Guam, Puerto Rico, Trust Territory of the Pacific Islands, Virgin Islands.
      Country of Citizenship cannot be left blank.
      Valid country code values can be found in Cognos under Reference Code Reports > Reference Tables > Country Reference Report
  - o The Change History section displays the following:
    - ▪ Academic Term: 20222
    - ▪ Change Date: Nov 24, 2021
    - ▪ Change Notes: Edited the Business Practice.

Testing successful? (circle one) Yes / No

Test Scenario 3:

Using the data element dictionary generated in Test Scenario 1,

- Verify the following changes to data element Country of Citizenship (STE019):
  - o The Business Practice section displays the following:
    - ▪ U.S. possessions, protectorates, and territories should be treated as states and thus coded US. US include American Samoa, N. Mariana Islands, Guam, Puerto Rico, Trust Territory of the Pacific Islands, Virgin Islands.
      Country of Citizenship cannot be left blank.
      Valid country code values can be found in Cognos under Reference Code Reports > Reference Tables > Country Reference Report

  - o The Change History section displays the following:
    - ▪ Academic Term: 20222
    - ▪ Change Date: Nov 24, 2021
    - ▪ Change Notes: Edited the Business Practice.

Testing successful? (circle one) Yes/No

Test Scenario 4:

Using the data element dictionary generated in Test Scenario 1,

- Verify the following changes to data element Permanent Address – Nation (STE062):
  - The Business Practice section displays the following:
    - The permanent address of the student. The address type is RGTADDR on GTVSDAX.

      Valid country code values can be found in Cognos under Reference Code Reports > Reference Tables > Country Reference Report

  - The Data Source section displays the following:
    - Provider: Banner
    - Table: SPRADDR
    - Column: SPRADDR_NATN_CODE
    - GUI Name: SPAIDEN
    - GUI Label: Nation on Address Tab

  - The Change History section displays the following:
    - Academic Term: 20222
    - Change Date: Nov 24, 2021
    - Change Notes: Edited the Business Practice and Data Source.

Testing successful? (circle one) Yes/No

Test Scenario 5:

Using the data element dictionary generated in Test Scenario 1,

- Verify the following changes to data element Enrolled Student Current Address – Nation (STE096):
  - The Business Practice section displays the following:
    - The current address of the student. The address type is RGTCRADDR on GTVSDAX.

      Valid country code values can be found in Cognos under Reference Code Reports > Reference Tables > Country Reference Report

  - The Data Source section displays the following:
    - Provider: Banner
    - Table: SPRADDR
    - Column: SPRADDR_NATN_CODE
    - GUI Name: SPAIDEN
    - GUI Label: Nation on Address Tab

- o The Change History section displays the following:
    - Academic Term: 20222
    - Change Date: Nov 24, 2021
    - Change Notes: Edited the Business Practice and Data Source.

Testing successful? (circle one) Yes/No

If testing was unsuccessful, please explain issues, in detail, here:

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Data Element Dictionary (DED) Updates for High School Code (STE030)

Purpose

The business practice for Data Element High School Code (STE030), previously stated "If an institution maintains the correct codes on the Source/Background Institution Code Validation Form (STVSBGI) in Banner, then the institution does not need to translate codes." This information was incorrect as the Campus ETL logic does not check STVSBGI for High School Code. Instead, the Campus ETL logic checks the FICE and High School Code Translation System first to see if there is a translation. If there isn't a translation, then it checks in Banner for the correct code in SORHSCH.SORHSCH_SBGI_CODE from the Banner page (SOAHSCH).

Functionality delivered with this release:

The Business Practice section of data element High School Code (STE030) will be updated to remove the reference to the Source/Background Institution Code Validation page (STVSBGI).

Test Scenario 1:

In Cognos, generate a data element dictionary using the Data Dictionary > Download PDF option.

- Verify the following changes to data element High School Code (STE030):
  - The Business Practice section displays the following:
    - Institutions have two options: use the correct code in Banner or translate the code using the FICE and High School Code Translation System.

      Refer to the most current edition of School Code List (published annually by The College Entrance Examination Board).

      Beginning Summer 2002, use a valid high school code for an out-of-state high school. These will be posted on a USG Web site.

      Temporary codes will be assigned for: Georgia high schools without a CEEB code; Georgia high schools which no longer exist and do not have a CEEB code; out-of-state high schools without a CEEB code; and for international high schools without a CEEB code.

      Use NNNNNN for a student who never attended a high school.

      Beginning Summer 2002, institutions are required to verify new and unfamiliar high codes against the FICE and High School Code Translation System to ensure the most current high school codes are reported. https://www.usg.edu/data_services/fice_hs

For documentation on the FICE and High School Code Translation System, go to the links provided.
https://www.usg.edu/data_services/assets/data_services/documents/FICE_HS_Code_Translation_Institution_User_Guide_20150803.pdf

This field may be blank for transfers, graduate, and professional students.

- o The Change History displays the following:
  - Academic Term: 20222
  - Change Date: Nov 11, 2021
  - Change Notes: In Academic Term 20222, the business practice was updated to remove the following statement. "If an institution maintains the correct codes on the Source/Background Institution Code Validation Form (STVSBGI) in Banner, then the institution does not need to translate codes. However, if an institution does not use USO standardized codes in Banner, then it must translate its codes with this system." The following URL was also added to replace a broken URL:
    https://www.usg.edu/data_services/assets/data_services/documents/FICE_HS_Code_Translation_Institution_User_Guide_20150803.pdf

Testing successful? (circle one) Yes/No

If testing was unsuccessful, please explain issues, in detail, here:

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Fix for Validation Rule VSTE281

Purpose

During the ADC Fall EOT 20212 collection, institutions reported issues with the following validation rule when the calendar year changed from 2020 to 2021:

>   VSTE281 – If Student Level is 11, High School Graduation Year must be the current year or later.

The logic for this validation rule used sysdate to calculate the current year. For Dual Enrolled students who graduated high school in 2020, once the sysdate changed to 2021, their graduation year was no longer in the current year or later. As result, the validation rule was triggered in error.

Functionality delivered with this release:

The VSTE281 validation logic will be updated to look at the EDW_ACADEMIC_TERM_LKP table instead of using sysdate to calculate the current year. This change will ensure that the error will not fire incorrectly for students when the calendar year changes during the open ADC Fall End-of-Term (EOT) collection.

Test Scenario 1:

Run the ZADMETL process for parameter value A to generate output for ADC. Review the .lis file output for any errors. If ZADMETL completed successfully, run the ADC extraction.

In Cognos, navigate to Data Submission Errors > Institution Summary > Category: Student > Record Type: Enrollment *(ods_admstu_ste_attr_mimic)*. Use the 'View / Download' link to determine if the following validation rule was triggered:

(VSTE281) If Student Level is 11, High School Graduation Year must be the current year or later

If this validation rule exists, verify that it fired correctly (i.e. the student's graduation year is not the current calendar year or later).

Testing successful? (circle one) Yes/No

Test Scenario 2:

In Cognos, navigate to Student Data Submission Review > Enrollment by Academic Level > Student Data Submission - Enrollment by Academic Level report. Use the "Detail Data" link for STUDENT_LEVEL_NBR '11' to view the Table Dump - Student Enrollment (ods_admstu_ste_attr_mimic) report.

For a sample of students listed with STUDENT_LEVEL_NBR '11', verify that the Graduation Date on the High School Information (SOAHSCH) page is in the current calendar year or later.

Testing successful? (circle one) Yes/No

If testing was unsuccessful, please explain issues, in detail, here:

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Updates to Campus ETL Criteria for Population Tables

Purpose

During the ADC Summer Mid-Term (MT) 20221 collection, duplicate rows were found in the following program tables:

- ODS_ADMGRAD_PROGRAM_MIMIC
- ODS_ADMSTU_PROG_ENROLL_MIMIC

The duplicate rows in these tables resulted from a join on population tables that contained duplicate records.

Functionality delivered with this release:

The Campus ETL logic for the population tables will be updated to prevent duplicate records, preventing duplicate rows in the above referenced program tables.

Test Scenario 1:

Run the ZADMETL process for parameter value A to generate output for ADC. Review the .lis file output for any errors to verify that ZADMETL runs successful to completion. If ZADMETL completed successfully, run the ADC extraction.

In Cognos, navigate to Submission Status > Submission Summary > Data Submission Record Counts - Submission Summary > Submission Term: 20222 – EOT > Category: Graduation > Program Awarded *(ods_admgrad_program_mimic).* Use the "View/Download link" to view the Table Dump - Graduation Program Awarded (*ods_admgrad_program_mimic*) report. Download the report and verify that no rows are duplicated.

Testing successful? (circle one) Yes/No

Test Scenario 2:

In Cognos, navigate to Submission Status > Submission Summary > Data Submission Record Counts - Submission Summary > Submission Term: 20222 – EOT > Category: Student > Program Enrolled *(ods_admstu_prog_enroll_mimic).* Use the "View/Download link" to view the Table Dump - Student Program Enrollment (*ods_admstu_prog_enroll_mimic*) report. Download the report and verify that no rows are duplicated.

Testing successful? (circle one) Yes/No

If testing was unsuccessful, please explain issues, in detail, here:

Signature

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Knowledge Module Update

Purpose

During internal and beta testing, some extractions initially failed due to a tablespace error. This error was a result of an issue with a knowledge module in the ODI Extraction process. When checking for Primary Key violations, there is no filter on SETID, so the process inserted data for all SETIDs into the E$ ODI temporary tables. This caused a large amount of records to be inserted, but not removed from the E$ tables in non-production environments since we do not run all SETIDs in pre-production testing.

Functionality delivered with this release:

The ODI CKM USGBOR Oracle Version 1 knowledge module was updated to filter on SETID when checking primary key violations.

Test Scenario 1:

Run the ZADMETL process for parameter value A to generate output for ADC. Review the .lis file output for any errors to verify that ZADMETL runs successful to completion. If ZADMETL completed successfully, run the ADC extraction. Verify that the ADC extraction runs to completion.

Testing successful? (circle one) Yes/No

NOTE: ITS will perform additional testing during the beta testing period to verify record counts in the E$ ODI temporary tables.

If testing was unsuccessful, please explain issues, in detail, here:

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