



Banner Operational Data Store Release Guide

Release 8.5
November 2014



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Prepared by: Ellucian
4375 Fair Lakes Court
Fairfax, Virginia 22033
United States of America

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Introduction

This guide documents changes made with the delivery of Banner® Operational Data Store (Banner ODS) release 8.5. Release 8.5 includes several RPE enhancements and problem resolutions.

In this document

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

Data Enhancements

[Data Enhancements](#) section includes information about the data coverage enhancements including a description of the requested enhancement, RPE or defect resolved, solution, and list of new or modified objects (for example, new or changed business concepts, reporting views, columns, and functions).

Performance Enhancements

[Performance Enhancements](#) section describes enhancements that improve the working performance of the tools. This includes the RPEs addressed with this release.

Administrative User Interface Enhancements

[Administrative User Interface Enhancements](#) section describes new and updated functionalities within the Administrative UI with this release.

Miscellaneous Enhancements

[Miscellaneous Enhancements](#) section describes miscellaneous new and updated enhancements with this release.

Documentation Enhancements

[Documentation Enhancements](#) section describes major enhancements to the documentation for this release of Banner ODS.

Other document lists included with this product

The following sections include document lists of objects that changed and defects that were fixed with this release.

- [Banner ODS changed objects](#)
- [Banner ODS Cognos filters](#)
- [Banner ODS display rules](#)
- [Problem Resolutions](#)

Prerequisites

Refer to the *Banner Performance Reporting & Analytics (BPRA) 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 BPRA 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
<i>Banner ODS Installation Guide 8.5</i>	Contains instructions about performing a fresh install of Banner ODS 8.5.
<i>Banner ODS Upgrade Guide 8.5</i>	Contains instructions about upgrading from Banner ODS 8.4.1.
<i>Banner ODS User Guide 8.5</i>	Includes complete information about the Banner ODS business concepts, data models, reports, and self-service reporting.
<i>Banner ODS Administration Guide 8.5</i>	Includes information about the ODS architecture and maintaining the database using the Administrative User Interface.
<i>BPRA Resource Guidelines</i>	Contains hardware and software recommendations.

Document	Description
<i>BPRA Oracle Streams Supplement</i>	Contains information about using Oracle Streams to stage data in Banner ODS.
<i>BPRA Materialized Views Supplement</i>	Contains information about using Oracle Materialized Views to stage data in Banner ODS.
<i>BannerBI Performance Master Tuning Guide</i>	Contains information about tuning your Banner Business Intelligence (BannerBI) database to optimize its performance with BannerBI applications.

Data Enhancements

This release of Banner ODS includes a major data enhancement on integration of Degree Works for Student Audits and the integration of both Degree Works and Banner Registration Planning to report on student plans. New data areas were added and some data areas were modified in each of the business areas of the ODS. The enhancements are organized into sections by the ODS business area.

Refer to the following subsections to find specific information about each data area added or modified and the related RPEs or defects addressed.

- [Accounts Receivable](#)
- [Advancement](#)
- [Common](#)
- [Finance](#)
- [Financial Aid](#)
- [Human Resources](#)
- [Student](#)
- [Travel and Expense](#)

Accounts Receivable

The following sections describe the new data coverage enhancements related to Accounts Receivable information.

Added Aid Year Designator

Resolves Change Request Defect 1-1AT4Y5L

Upgrade of the certification defect patch for 1-W16OCU caused non-population of designators for term-based and aid year-based detail codes. The check for term based or aid year based indicators is performed at too high of a level by using the table TBBDETC. When changes are made to detail codes to change them from non-term based to term based or aid year based or back over time, the accounting information may not be incorrectly populated on AT_LEDGER_ACCOUNTING because the LEDGER_DESIGNATOR, OPERATING_DESIGNATOR may not be populated correctly.

The code should check for Term or Aid based indicator usage on TBBEACT. Additionally, if the aid year is not populated on TBRACCD, but the detail code used is aid year-based, the

aid year passed to extract the designator should default to the aid year for the term defined on STVTERM. Otherwise the DESIGNATOR_IND will be set to 'A', but no designator set.

Solution

Changed the testing of the aid year-based and term-based indicator from the detail code table TBBDETC to use the header record accounting table TBBEACT in the AT_LEDGER_ACCOUNTING and AT_ACCOUNT_DETAIL composite views.

Set and passed the aid year as the aid year for the term as STVTERM_FA_PROC_YEAR if the aid year is null in the account detail and the detail code is aid year-based.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Composite view AT_LEDGER_ACCOUNTING includes these modifications:
 - Corrected setting of DESIGNATOR_IND, DESIGNATOR, DESIGNATOR_TYPE, and DESIGNATOR_TYPE_DESC to be determined from accounting header record TBBEACT.
2. Composite view AT_ACCOUNT_DETAIL includes these modifications:
 - Corrected setting of LEDGER_DESIGNATOR, OPERATING_DESIGNATOR, DESIGNATOR_TYPE and DESIGNATOR_TYPE_DESC to be determined from accounting header record TBBEACT.
 - Corrected setting of and passing as a parameter the aid year (if the TBRACCD_AIDY_CODE is null), to use the STVTERM_FA_PROC_YEAR if the detail code is aid year-based.

Advancement

The following sections describe the new data coverage enhancements related to Advancement information.

Added Preferred Address for an organization

Resolves Enhancement CR-000100478 (Legacy ID 1-1EUHWBN)

Advancement 8.6.1 added to the organization record AOBORGN the preferred address type and address type sequence number. This is the address type that should be used in

AA_ORGANIZATIONAL_CONSTITUENT instead of the address type stored on the contact record AORCONT if the address source was for the organization. Additionally, the organizational constituent never had the ability to identify its preferred address in AS_ADDRESS until now.

Solution

Modified AA_ORGANIZATIONAL_CONSTITUENT to use the new preferred address type identified in AOBORGN_PREF_ADDRESS_TYPE.

Modified AS_ADDRESS to set the PREF_ADDRESS_TYPE to 'Y' if the address and sequence number exists on AOBORGN.

Added new column PREF_ADDRESS_NUMBER to CONSITUTENT_ENTITY and ORGANIZATIONAL_CONSTITUENT.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Functions

- GOKODSF.F_PREFERRED_ADDRESS_IND

Enhanced to set the PREFERRED_ADDRESS_IND to 'Y' if the address type and sequence number is found on AOBORGN.

- GOKODSF.F_GET_PREFERRED_DATA

Enhanced to return the AOBORGN_PREF_ATYP_CODE and AOBORGN_PREF_ATYP_SEQNO as the preferred address type and sequence for AOBORGN.

2. Composite view AA_ORGANIZATIONAL_CONSTITUENT includes these modifications:

- Changed the source of the PREF_ADDRESS_TYPE to use the new column AOBORGN_PREF_ATYP_CODE.
- Added a new column called PREF_ADDRESS_NUMBER.
- Removed the unnecessary join to AORCONT.

3. Reporting views that have changes:

- CONSTITUENT_ENTITY
 - PREF_ADDRESS_TYPE and PREF_ADDRESS_TYPE_DESC
 - PREF_ADDRESS_NUMBER
- ORGANIZATIONAL_ENTITY
 - Changed source of PREF_ADDRESS_TYPE from table AORCONT_ATYP_CODE to AOBORGN_PREF_ATYP_CODE

– Added column PREF_ADDRESS_NUMBER

4. Reporting Tools Business Concept included the new column in ORGANIZATIONAL_CONSTITUENT:
 - Advancement Rating
 - Annual Giving
 - Campaign Giving History
 - Designation Giving History
 - Gift
 - Organizational Constituent
 - Organization Entity
 - Relationship
 - Pledge
 - Solicitation Effort
5. Reporting Tools Business Concept included the new columns in CONSTITUENT_ENTITY:
 - Advancement Prospect
 - Advancement Rating
 - Annual Giving
 - Campaign Giving History
 - Constituent
 - Constituent Entity
 - Designation Giving History
 - Gift
 - Organizational Constituent
 - Organization Entity
 - Relationship
 - Pledge
 - Solicitation Effort

Added Contact Additional Staff Members

Resolves Enhancement CR-000100457 (Legacy ID 1-10M3MBF)

Banner Advancement release 8.4.2 added the capability to track multiple officers jointly visiting a prospect for a single contact in new table AMRATTN and determine when the prospect contact was made by adding new column AMRCONT_CREATE_DATE to table

AMRCONT. All these new columns on the tables are needed for completing information on contacts.

Solution

Created a new reporting view for contact attendees to allow for reporting on all attendees for a contact.

Created new reporting view PROSPECT_CONTACT_STAFF and added new columns CONTACT_CREATE_DATE and TOTAL_STAFF_COUNT to reporting view CONSTITUENT_CONTACT.

New objects

1. Reporting view PROSPECT_CONTACT_STAFF
2. Trigger: AT_AMRATTN_INSERT_ODS_CHANGE

Modified objects

The following objects are modified.

1. Reporting view CONSTITUENT_CONTACT includes new columns:
 - CONTACT_CREATE_DATE
 - TOTAL_STAFF_COUNT
2. Reporting Tools Business Concepts that include the new CONSTITUENT_CONTACT column:
 - Organizational Constituent
 - Advancement Prospect
3. Reporting Tools Business Concept that includes the new reporting view PROSPECT_CONTACT_STAFF:
 - Advancement Prospect

Added ability to report on gifts for team assignments

Resolves Enhancement CR-000100469 (Legacy ID 1-1DF3SKO)

Need to be able to report on gifts and amount given by each staff assignment's prospect.

Solution

Added PROSPECT_STAFF_ASSIGNMENT to Gift package joined on ENTITY_UID to GIFT_TRANSACTIONS.



Note: It is expected that one would group on staff type or select a specific staff type as the relationship between

PROSPECT_STAFF_ASSIGNMENT and GIFT_TRANSACTIONS is a many to many relationship. A staff member can be assigned to multiple prospects.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

1. Reporting Tools Business Concept changed to include the PROSPECT_STAFF_ASSIGNMENT reporting view:
 - Gift

Curbed impact to organization primary and secondary contact reporting

Resolves Change Request Defect 1-1BEIBBP

Improvements made to Advancement release 8.6 to manage organization contacts by consolidating primary and secondary contacts into one table creates loss of ability to identify organization primary contacts in the ODS.

Additional improvements to identify contact telephone and email information to use similar functionality as address information which utilizes a source, can cause improper population of the telephone number or email address in the contact.

Also, new flexibility was added to allow telephone types to be chosen regardless of the relationship to the address type.

New logic needs to be incorporated to determine which phone number is used for reporting. Additionally, address information was not displaying when non-PIDM secondary contact used the organization address type. When the constituent was the secondary contact and their address, telephone, or email information changed, it was not reflected in ORGANIZATION_CONTACT.

Solution

Rebuilt AA_ORGANIZATION_CONTACT and MAVOCON to use contact information only from the table AORCONT. Migration of primary contacts from AOBORGN to AORCONT automatically resolves issue of too many primary contacts generated from AOBORGN.

Enhanced AA_ORGANIZATION_CONTACT to utilize the source to determine the population of the telephone and email information including the same display logic as Banner Advancement.

Changed AA_ORGANIZATIONAL_CONSTITUENT to populate PREF_ADDRESS_TYPE and JOB_CATEGORY contact information from AORCONT. Non-PIDM secondary

contacts that use the organization address type display the organization address information.

Changed address, telephone, or email information for the contacts when constituent IDs are reflected in ORGANIZATION_CONTACT.

New objects

The following objects are added.

1. AOKODSF.F_GET_EMAIL_ROWID:
Populates email address based upon source indicator and form AOAORGN display logic.
2. Indexes:
 - AORCONT_CONTACT_PIDM_ODS:
Created new non-unique index AORCONT_CONTACT_PIDM_ODS on the AORCONT.AORCONT_CONTACT_PIDM column. This is used to improve performance of the new refresh mechanism added to the MAVOCON view used in UPDATE_MAT_ORGANIZATION_CONT.
 - MAT_ORG_CONTACT_INDEX_03:
Created a new non-unique index MAT_ORG_CONTACT_INDEX_03 on the MAT_ORGANIZATION_CONTACT.CONTACT_UID column. This is used to improve performance of the new delete mechanism added to the mapping DELETE_MAT_ORGANIZATION_CONT.

Modified objects

The following objects are modified.

1. AOKODSF.F_GET_TELEPHONE_ROWID
Changed to pass only the telephone code and correct PIDM based upon the source AORCONT_TELE_SRC_IND to display telephone information similarly to form AOAORGN. This no longer depends on the address type for the telephone.
2. Composite views AA_ORGANIZATION_CONTACT and MAVOCON:
Modified to remove usage of table AOBORGN in the creation of the primary contact information and use table AORCONT to build the primary contact information.
3. Composite view AA_ORGANIZATIONAL_CONSTITUENT
Modified to remove usage of table AOBORGN in the population of PREF_ADDRESS_TYPE and JOB_CATEGORY and to use table AORCONT to populate the same information.
4. Triggers:
 - AT_AOBORGN_INSERT_ODS_CHANGE:

Removed procedure call for 'MAT_ORGANIZATION_CONTACT' for the ODS 8.5 release only.

- AT_AORCONT_INSERT_ODS_CHANGE:
Added procedure call to insert AOROCHG record for 'MAT_ORGANIZATIONAL_CONSTITUENT'.
- AT_AGRGDES_INSERT_ODS_CHANGE:
Removed unneeded entry for MAT_ORGANIZATIONAL_CONSTITUENT.
- AT_AGRGMLT_INSERT_ODS_CHANGE:
Removed unneeded entry for MAT_ORGANIZATIONAL_CONSTITUENT.
- AT_AGRPDES_INSERT_ODS_CHANGE:
Removed unneeded entry for MAT_ORGANIZATIONAL_CONSTITUENT.
- AT_AGRPMLT_INSERT_ODS_CHANGE:
Removed unneeded entry for MAT_ORGANIZATIONAL_CONSTITUENT.

5. MGBINDX:

- Insert new MGBINDX records for the new indexes on AORCONT and MAT_ORGANIZATION_CONTACT.

6. A reload of the composite tables MAT_ORGANIZATION_CONTACT, MAT_ORGANIZATIONAL_CONSTITUENT, and MAT_CONSTITUENT is required if the client chooses to migrate data from the table AOBORGN to the table AORCONT. A reload of these tables is not necessary if the migration scripts were not used.



Note: The correction for this defect only applies to clients that have upgraded to Banner Advancement 8.6.

Added new Organization Contact data

Resolves Enhancement CR-000100471 (Legacy ID RPE 1-1BFLBGB)

New columns were added to the AORCONT tables in Advancement release 8.6 to enhance Organization Contact data. They are: DECEASED_IND, END_DATE, FAX_CODE, FAX_AREA, FAX_NUMBER, FAX_EXT, CTRY_CODE_FAX, and NOTES.

All of these need to be added to the ORGANIZATION_CONTACT reporting view to enhance reporting.

Also, bring in any other columns from this table not yet reported on like AORCONT_DATE for initial start date of the contact.

Solution

Added new columns to reporting view ORGANIZATION_CONTACT to report on telephone fax information, and the initial start date and end date of the contact, if the secondary

contact is deceased. If the address was inactivated after being assigned to the contact, the address still displays but with the address status as inactivated.

Moved Organizational Constituent to its own namespace in Cognos.

New objects

There are no new objects.

Modified objects

The following objects are modified.

1. Reporting view ORGANIZATION_CONTACT added new columns
 - CONTACT_SEQUENCE_NUMBER
 - CONTACT_START_DATE, CONTACT_END_DATE
 - CONTACT_LAST_NAME_PREFIX
 - CONTACT_DECEASED_IND, CONTACT_DECEASED_IND_DESC
 - HOUSE_NUMBER, CONTACT_ADDRESS_STATUS_IND
 - CONTACT_ADDRESS_SOURCE, CONTACT_ADDRESS_SOURCE_DESC
 - PHONE_COUNTRY_CODE
 - CONTACT_PHONE_SOURCE, CONTACT_PHONE_SOURCE_DESC
 - FAX information
 - CONTACT_FAX_SOURCE, CONTACT_FAX_SOURCE_DESC
 - CONTACT_EMAIL_SOURCE, CONTACT_EMAIL_SOURCE_DESC
 - CONTACT_COMMENT
 - CONTACT_USER_ID
 - CONTACT_ACTIVITY_DATE
2. Reporting Tools Business Concept includes these new columns:
 - Organizational Constituent
 - Organizational Constituent Namespace was actually included in the Gift Namespace. It has been moved to its own Namespace.
 - Person Role

Added Determinants to Advancement Constituent Package

Resolves Defect CR-000119770

Recent Cognos Framework Manager upgrades from 8.x has changed the aggregation behavior of facts on query subjects in the Constituent package based upon its current design. Facts on a query subject are multiplying by the number of records that exist in joined query subjects when listing information from the joined query subjects.

Solution

A determinant was added to identify the lowest grain of each query subject to group by in the Constituent package that contains one or more measures and tells Cognos how to properly aggregate those facts.

Two query subjects could not be identified with a lowest grain since the source has no primary key - Employment History and Special Activity.

We identified a determinant at the lowest grain possible for grouping.

New objects

There are no new objects.

Modified objects

The following objects are modified.

1. Reporting Tools Business Concept that had Determinants added to query subjects with facts:
 - Constituent

Common

The following section describes the new data coverage enhancements related to Common information.

Added missing reporting views to Cognos packages

Resolves Enhancement CR-000112663 (Legacy ID 1-CQ3KZP)

Add reporting views missing from Cognos Packages. The following reporting views ACADEMIC_HISTORY_EVENT, CHART_ATTRIBUTES, PAYROLL_ATTENDANCE, STUDENT_WORK_EXPERIENCE do not exist in any packages for Cognos.

Solution

Added ACADEMIC_HISTORY_EVENT and STUDENT_WORK_EXPERIENCE to Student Detail business concept.

Added PAYROLL_ATTENDANCE to Payroll business concept.

Added CHART_ATTRIBUTES to Encumbrance, Operating Ledger, Grant Ledger, Grant and Project, General Ledger, Endowment Units, Endowment Distribution, Budget Detail, and Budget Availability Ledger business concepts.

All of these reporting views would be reportable in the respective Cognos packages and Discoverer EUL.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

1. Reporting Tools Business Concept that includes the reporting view ACADEMIC_HISTORY_EVENT:
 - Student Detail
2. Reporting Tools Business Concept that includes the reporting view ACTIVITY_ATTRIBUTES:
 - Budget Detail
3. Reporting Tools Business Concept that includes the reporting view CHART_ATTRIBUTES:
 - Budget Availability Ledger
 - Budget Detail
 - Encumbrance
 - Endowment Distribution
 - Endowment Units
 - General Ledger
 - Grant and Project

- Grant Ledger
- Operating Ledger
- 4. Reporting Tools Business Concept that includes the reporting view PAYROLL_ATTENDANCE:
 - Payroll
- 5. Reporting Tools Business Concept that includes the reporting view STUDENT_WORK_EXPERIENCE:
 - Student Detail

Corrected slot mappings that were not loading all rules on REFRESH

Resolves the following enhancements:

- Change Request Defect 1-16MF05U
- Change Request Defect CR-000105496
- Change Request Defect 1-NTMN7C
- Change Request Defect 1-1G2BAHM

Resolves Change Request Defect 1-16MF05U

Slot Mappings not loading all rules on REFRESH

When multiple rules are allowed for slot processing, not all rules are being loaded on a REFRESH.

Solution for Change Request Defect 1-16MF05U

Included the profile and rule in the P_DELETE procedure for each slot that can be loaded by rule.

Corrected table and index for MST_RACE_SLOT adding PROFILE_CODE to make it work consistently like other rule slotted tables.

Removed the hard coded rule of ALUMACCG for consistency, to populate MAT_SPECIAL_ACTIVITY_SLOT giving clients flexibility to use their own rules.

Resolves Change Request Defect CR-000105496

Exclusion number 4 building incorrectly for EXCLUSION_SLOT table

The fourth code for the INSTITUTION/EXCLUSION/ALUMEXCL code in MGRSDAX is not being populated correctly in the associated SLOT table (MAT_EXCLUSION_SLOT). In the package body logic only 3 exclusion codes are being gathered to build the Exclusion population cursor.

The result of this is that any PIDMs with the 4th exclusion code as their only exclusion code is not populated in the SLOT table from MAT_EXCLUSION.

GTVSDAX had a maximum of three records that should be built for exclusion slots. However the ODS table was set up to manage 4 slots.

Solution for Change Request Defect CR-000105496

Corrected package MAXEXCL to obtain the 4th exclusion code if it is defined in MGRSDAX.

Resolves Change Request Defect 1-NTMN7C

Exclusion Slot load package MAKEXCL has INTERNAL_GROUP and INTERNAL_CODE reversed

ODS 8.0 - 8.2.1 Slot load package MAKEXCL has INTERNAL_GROUP and INTERNAL_CODE reversed. Currently package MAKEXCL is populating the slot table differently than most of the other slot packages and is therefore logically confusing for clients.

The EXCLUSION_RULE column of MAT_EXCLUSION_SLOT is populated with the INTERNAL_CODE_GROUP rather than the INTERNAL_CODE.

In most slot packages the INTERNAL_GROUP has a single value with possible multiple INTERNAL_CODE values.

In the case of Exclusion it is reversed, INTERNAL_GROUP has the values of "EXCLUSION", "CAMP EXCLUSION" and "DESG EXCLUSION" with INTERNAL_CODE of "ALUMEXCL". "ALUMEXCL" is hard-coded in MAKEXCL. It is set up backwards.

Corrected the behavior of this package to populate the slot table with the name of the RULE not the RULE GROUP. This behavior has been observed from ODS 8.0 through ODS 8.2.1.



Note: Institutions should review their Exclusion display rules currently defined with INTERNAL_CODE = 'ALUMEXCL' and determine whether they are still being utilized. Your rules should be redefined to use the following the new record format defined by the rows of the chart where INTERNAL_GROUP = 'EXCLUSION'.

Use your institution's desired Exclusion Code values in the External Code field of these records. After defining the new rules, you can delete the old Exclusion display rules by deleting the records with an INTERNAL_CODE = 'ALUMEXCL'.

Solution for Change Request Defect 1-NTMN7C

Corrected package MAXEXCL to use Internal Group of EXCLUSION instead of Internal Code of ALUMEXCL.

Resolves Change Request Defect 1-1G2BAHM

ODS 8.4.1 MSKPRED was loading wrong records into MST_PREVIOUS_EDUCATION_SLOT.

In the MSKPRED package for ODS 8.4.1, the TRANSCRIPT_RECEIVED_DATE condition was removed from Cursor GET_PREVIOUS_EDUCATIONS for defect 1-AWC7U8. Cursor GET_PREVIOUS_EDUCATIONS orders on “order by ATTEND_TO_DATE desc, TRANSCRIPT_RECEIVED_DATE desc”.

With the TRANSCRIPT_RECEIVED_DATE condition being removed, any records with a null value in the ATTEND_TO_DATE and/or TRANSCRIPT_RECEIVED_DATE are sorting to the top bringing in the wrong records.

If a record has a NULL Transcript Received Date, that record will be inserted into the PREVIOUS_EDUCATION_SLOT before the record with a non-null Transcript Received Date.

Solution for Change Request Defect 1-1G2BAHM

Corrected package MSKPRED adding “nulls last” to the order by:

- order by ATTEND_TO_DATE desc nulls last,
- TRANSCRIPT_RECEIVED_DATE desc nulls last;

New objects

There are no new objects added.

Modified objects

The following objects are modified.

1. Packages:
 - MAKACTV
 - MAKARAT
 - MAKEXCL
 - MAKFUND
 - MAKSCTY
 - MAKCONT
 - MAKPURP
 - MAKACTV
 - MPKBARG
 - MPKEECY
 - MPKLEAV
 - MRKBCMP

- MRKTREQ
- MSKCSCD
- MSKNASG
- MSKPRED
- MSKREQR
- MSKSATT
- MSKCHRT
- MGKCOMM
- MSKCONT
- MAKXREF
- MSKHOLD
- MSKICHR
- MSKINTS
- MAKMAIL
- MSKMEDI
- MSTRACE
- MPKSKIL
- MSKTEST

2. Indexes:

- Corrected the index on MAT_CROSS_REFERENCE_SLOT adding PROFILE_CODE
- Corrected the index on MAT_GIFT_SOCIETY_SLOT adding PROFILE_CODE
- Corrected the index on MST_INST_CHARACTERISTIC_SLOT adding PROFILE_CODE
- Corrected the index on MST_NONINSTRUCT_ASSIGN_SLOT adding ASSIGNMENT_RULE
- Corrected the index on MST_RACE_SLOT adding PROFILE_CODE
- Corrected the index on MST_STUDENT_ATTRIBUTE_SLOT adding PROFILE_CODE

3. Composite tables:

- MAT_EXCLUSION_SLOT:

Corrected to report similarly to the other slot views that allow for institution definition of rules. The slot table is now populated with the name of the RULE, not the RULE GROUP.

- MAT_SPECIAL_ACTIVITY_SLOT:

Corrected to report similarly to the other slot views that allow for institution definition of rules. The slot table no longer uses only the hard coded rule of

ALUMACCG and institutions can define their own rules for the rule group ACTIVITY CATEGORY.

- MST_RACE_SLOT:

Added PROFILE_CODE.

4. Reporting View PERSON_SENSITIVE_RACE_SLOT was corrected to report similarly to the other slot views that allow for institution definition of rules:

- Added PROFILE_CODE



Note: If the extract process finds the same race category, it extracts the race in alphabetical order.

Added INDEX for tables in slot mapping packages

Resolves Enhancement Defect 1-14B1XK4

When defect 1-BPGOOL was incorporated, the index creation on source tables also needed to change from (NVL(LAST_DML_DATE, LAST_ACTIVITY_DATE)) TABLESPACE &INDX to (LAST_ACTIVITY_DATE) to ensure performance.

Solution

Replaced index 'NVL(LAST_DML_DATE, LAST_ACTIVITY_DATE)' on all source tables for slots with new index on LAST_ACTIVITY_DATE.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

1. Following tables had the functional index removed and a new column index on LAST_ACTIVITY_DATE added:
 - MAT_ADVANCEMENT_RATING
 - MAT_ANNUAL_GIVING
 - MAT_DEGREE
 - MAT_DONOR_CATEGORY
 - MAT_EXCLUSION
 - MAT_FUNDING_INTEREST
 - MAT_GIFT_SOCIETY
 - MAT_MAIL

- MAT_ORGANIZATION_CONTACT
- MAT_RELATION
- MAT_SPECIAL_ACTIVITY
- MAT_SPECIAL_ACTIVITY_YEAR
- MAT_SPECIAL_PURPOSE_GROUP
- MFT_GRANT
- MFT_GRANT_FUND
- MFT_INVOICE_TAX_RATE
- MGT_COMMUNICATION
- MPT_BARG_UNIT
- MPT_BENEFICIARY
- MPT_CERTIFICATION
- MPT_EMPL_EARN_CY
- MPT_HR_APPL_STAT
- MPT_INTERVIEW
- MPT_LEAVE_BALANCE
- MPT_MONTHLY_DEDUCTION
- MPT_PAST_EMPLOYMENT
- MPT_POSN_LABOR_DIST
- MPT_REFERENCE
- MPT_REVIEW
- MPT_SKILL
- MRT_FINAID_BUDGET_COMPONENT
- MRT_TRACKING_REQUIREMENT
- MST_ACADEMIC_OUTCOME
- MST_ADMISSIONS_DECISION
- MST_ADMISSIONS_REQUIREMENT
- MST_ADMISSIONS_SOURCE
- MST_ADVISOR
- MST_CONTACT
- MST_COURSE_ATTRIBUTE
- MST_COURSE_LEVEL
- MST_COURSE_SCHEDULE
- MST_ENROLLMENT

- MST_FACULTY
 - MST_FACULTY_ATTRIBUTE
 - MST_HOLD
 - MST_INSTITUTION_CHARACTERISTIC
 - MST_INSTRUCTIONAL_ASSIGNMENT
 - MST_INTEREST
 - MST_MEDICAL_INFORMATION
 - MST_MEETING_TIME
 - MST_NONINSTRUCTIONAL_ASGNMNT
 - MST_PREVIOUS_DEGREE
 - MST_PREVIOUS_EDUCATION
 - MST_RACE
 - MST_RECRUITMENT_SOURCE
 - MST_SPORT
 - MST_STUDENT_COHORT
 - MST_STUDENT_COURSE
 - MST_STUDENT_COURSE_ATTRIBUTE
 - MST_TEST
2. Packages:
- MGBINDX

Finance

The following section describes the new data coverage enhancements related to Finance information.

Added PAY_TYPE and PAY_TYPE_DESC fields to INVOICE_CHECK

Resolves Enhancement CR-000100458 (Legacy ID 1-16JY5BP)

This resolution assists future bank reconciliation process for customers adopting PayNetExchange for disbursements. Integration with PayNetExchange will help track a Payment Type as opposed to Check Type.

This also will help customers report off of PAY_TYPE supporting bank reconciliation reporting. This supports the new column of FABCHKS_PAY_TYPE added to FABCHKS in Banner Finance release 8.7.

Solution

Added new column PAY_TYPE and PAY_TYPE_DESC to INVOICE_CHECK to differentiate between payment types in support of future enhancements for the Finance Bank Reconciliation functionality.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

1. Reporting view INVOICE_CHECK has added new columns:
 - PAY_TYPE
 - PAY_TYPE_DESC
2. Reporting Tools Business Concept that include the new INVOICE_CHECK columns:
 - Invoice Payables
 - Purchasing Payables

Financial Aid

The following sections describe the new data coverage enhancements related to Financial Aid information.

Added functionality for Period based Awarding

Currently, processing Direct, Electronic, and Manual loans by period remain at the aid year level. There is no option to select and process these loan funds by period.

The purpose of this solution would be to enable reporting on student financial aid award by aid enrollment period and determine if the fund is enabled for awards by period.

Resolves the following enhancements:

- CR-000100467 (Legacy ID 1-1FW3A1L)
- CR-000112655 (Legacy ID 1-1FXK47R)
- CR-000112656 (Legacy ID 1-180Y3AP)

- **CR-000112657 (Legacy ID 1-17QV8C5)**

Resolves CR-000100467 (Legacy ID 1-1FW3A1L)

Banner Financial Aid 8.18.1 added new columns RPRATRM_AWST_CODE and RPRATRM_AWST_DATE to support period based awarding.

The columns RPRATRM_AWST_CODE and RPRATRM_AWST_DATE should replace the aid year award status code and award status date in the AWARD_BY_PERSON reporting view as the award can now be processed by period.

If the award is by aid year, the aid year status is propagated into the period status columns, so the reporting should always be from RPRATRM regardless.

This also needs to report on the award offered expiration date stored on RPRATRM and the new attributes added to the RFRASPC table for FINAID_FUND to determine if the fund is enabled for period awards.

Solution for CR-000100467 (Legacy ID 1-1FW3A1L)

Changed source of AWARD_BY_PERSON AWARD_STATUS and AWARD_STATUS_DATE from RPRAWRD to RPRATRM.

Added additional columns FUND_PERIOD_ENABLED_IND and AWARD_OFFER_EXPIRATION_DATE.

Added FUND_PERIOD_ENABLE_IND to FINAID_FUND along with several other pre-existing columns for reporting.

Resolves CR-000112655 (Legacy ID 1-1FXK47R)

Banner Financial Aid 8.17.2 added new RFRASPC_TEACH_REDUCTION_PCT to aid in calculating the student's award based on the 6.0% TEACH reduction. This new column should be reported in FINAID_FUND to determine the percentage of the full award amount that TEACH will be reduced.

Solution for CR-000112655 (Legacy ID 1-1FXK47R)

Added TEACH_REDUCTION_PERCENT to FINAID_FUND.

Resolves CR-000112656 (Legacy ID 1-180Y3AP)

A new column was added in Financial Aid release 8.14.2 to the fund table RFRASPC to identify which enrollment rule code should be used to disburse the fund. Add the new RFRASPC_ENRR_CODE and the RTVENRR_DESC columns to the FINAID_FUND reporting view.

Solution for CR-000112656 (Legacy ID 1-180Y3AP)

Added FINAID_ENROLLMENT_RULE and description to FINAID_FUND.

Resolves CR-000112657 (Legacy ID 1-17QV8C5)

Add RFRASPC_DIRECT_LOAN_IND to the FINAID_FUND view. The direct loan indicator allows reports to select and distinguish direct loan fund codes from other loan funds without hard coding fund code values into the report. Hard coding becomes problematic when changes or additions to the fund codes are made in Banner. Reports may fail, or worse, be incorrect but not obvious if the wrong funds are selected for reporting.

Solution for CR-000112657 (Legacy ID 1-17QV8C5)

Added following columns to FINAID_FUND:

- DIRECT_LOAN_TYPE
- ELECTRONIC_LOAN_TYPE
- MANUAL_LOAN_TYPE

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Composite view AR_AWARD_BY_PERSON and Reporting view AWARD_BY_PERSON include these changes:
 - New columns:
 - AWARD_OFFER_EXPIRATION_DATE
 - AWARD_MEMO_DATE
 - DISBURSEMENT_RULE_OVERRIDE_IND
 - MAJOR_OVERRIDE and MAJOR_OVERRIDE_DESC
 - AWARD_BY_PERSON_DATA_ORIGIN
 - Changed sources of AWARD_STATUS and Award Status Indicators from RPRAWRD_AWST_CODE to RPRATRM_AWST_CODE.
 - Changed sources of AWARD_STATUS_DATE from RPRAWRD_AWST_DATE to RPRATRM_AWST_DATE.
2. Reporting view FINAID_FUND includes these new columns:
 - FUND_PERIOD_ENABLED_IND
 - OFFER_AWARD_STATUS, OFFER_AWARD_STATUS_DESC
 - ACCEPT_AWARD_STATUS, ACCEPT_AWARD_STATUS_DESC
 - DECLINE_AWARD_STATUS, DECLINE_AWARD_STATUS_DESC
 - CANCEL_AWARD_STATUS, CANCEL_AWARD_STATUS_DESC
 - MIX_OFFER_AWARD_STATUS, MIX_OFFER_AWARD_STATUS_DESC
 - MIX_ACCEPT_AWARD_STATUS, MIX_ACCEPT_AWARD_STATUS_DESC

- MIX_DECLINE_AWARD_STATUS, MIX_DECLINE_AWARD_STATUS_DESC
 - DIRECT_LOAN_TYPE, DIRECT_LOAN_TYPE_DESC
 - ELECTRONIC_LOAN_TYPE, ELECTRONIC_LOAN_TYPE_DESC
 - MANUAL_LOAN_TYPE, MANUAL_LOAN_TYPE_DESC
 - TEACH_REDUCTION_PERCENT
 - PARTIAL_AMOUNT_ACCEPTED_IND
 - MEMO_AWARD_ALLOWED, MEMO_AWARD_ALLOWED_DESC
 - ACG_GRADE_LEVEL
 - SMART_GRADE_LEVEL
 - AUTOMATIC_PACKAGE_IND
 - EQUITY_PACKAGE_IND
 - LOAN_FEE_PERCENT
 - REBATE_FEE_PERCENT
 - ROLL_AWARD_IND
 - FINAID_ENROLLMENT_RULE, FINAID_ENROLLMENT_RULE_DESC
 - FINAID_FUND_USER_ID
 - FINAID_FUND_ACTIVITY_DATE
3. Reporting Tools Business Concepts that include the new AWARD_BY_PERSON columns:
 - Active Registration
 - Loan Disbursement
 - Financial Aid Award and Disbursement
 - Financial Aid Application
 4. Reporting Tools Business Concepts that include the new FINAID_FUND columns:
 - Financial Aid Fund
 - Financial Aid Award and Disbursement

Added descriptions to values used in USER_DEFINED_FIELDS from RORUSER

Resolves Enhancement CR-000107714 (Legacy ID 1-WJE1EY)

Currently, the reporting view USER_DEFINED_FIELDS contains values from ROBUSDf which are used to track a student's participation in activities and in reporting departmental scholarships. These values are defined by aid year and applicant.

The values brought into the ODS from the table ROBUSDF need to have equivalent descriptions to be interpreted. They have no meaning without their descriptions.

Solution for Enhancement CR-000107714 (Legacy ID 1-WJE1EY)

Added the equivalent descriptions from table RORUSER to reporting view USER_DEFINED_FIELDS to make the values brought into the ODS from the table ROBUSDF comprehensive.

Added new reporting view NON_YEAR_USER_DEFINED_FIELDS

Resolves Change Request Enhancement 1-3GJWS7

Need to be able to report on user defined fields by applicant. The reporting view USER_DEFINED_FIELDS contains values from ROBUSDF which are defined by aid year and applicant. Need to report on the values defined in table ROBNYUD which are only defined by applicant.

Solution for Change Request Enhancement 1-3GJWS7

Provide ability to report on the values defined in table ROBNYUD which are only defined by applicant by creating new reporting view NON_YEAR_USER_DEFINED_FIELDS.

New objects

The following objects are added.

1. New Composite view AR_NON_YEAR_USER_DEF_FIELDS
2. New Reporting view NON_YEAR_USER_DEFINED_FIELDS

Modified objects

The following objects are modified.

1. Reporting view USER_DEFINED_FIELDS added new columns with equivalent description for each of the 360 values defined as:
 - USER_FIELD_DESCxxx for USER_FIELD_xxx
 - USER_DEFINED_ACTIVITY_DATE
 - USER_DEFINED_USER_ID
2. Reporting Tools Business Concept includes new columns for USER_DEFINED_FIELDS:
 - Financial Aid Application
3. Reporting Tools Business Concept Financial Aid Application includes a new reporting view:
 - NON_YEAR_USER_DEFINED_FIELDS

Changes made in support of Financial Aid release 8.18.2

Resolves Enhancement CR-000104960

Banner Financial Aid 8.18.2 added new functionality impacting various areas in the ODS. Of the most importance was the movement of the expected enrollment status from the tables RCRAPP1 to RORSTAT and the individual statuses by period stored on a new table.

This impacts reporting on the EXPECTED_ENROLL_STATUS for the aid year as well as enrollment statuses now by period.

Solution

Kept the column EXPECTED_ENROLL_STATUS on NEED_ANALYSIS for existing client reports.

Added EXPECTED_ENROLL_STATUS to FINAID_APPLICANT_STATUS reporting view.

Kept pre-existing columns on NEED_ANALYSIS_DEMOGRAPHIC reporting for period enrollment statuses.

Created new reporting view APPLICANT_PERIOD_STATUS to report on enrollment statuses by aid enrollment period.

New objects

The following objects are added.

1. New Composite view: AR_APPLICANT_PERIOD_STATUS
2. New Composite table: MRT_APPLICANT_PERIOD_STATUS
3. New Reporting view: APPLICANT_PERIOD_STATUS

Modified objects

The following objects are modified.

1. Packages:
 - ODSSRC.RNKNEED modified format masks to match FAISMGR.RNKNEED format masks.
 - ODSSRC.ROKODSF F_GET_FINAID_PROC_YEAR added additional cursor to obtain aid year based upon the aid enrollment period for the student.
2. Triggers:
 - RT_RORSTAT_INSERT_ODS_CHANGE:
Modified and added insert into RORPCHG table for MRT_APPLICANT_PERIOD_STATUS.
3. Composite view:

- MRVANDO
 - Removed formatting masks to replicate changes in FAISMGR.RNVANDO
 - AR_FINAID_APPLICANT_STATUS has the following columns:
 - EXPECTED_ENROLL_STATUS
 - EXPECTED_ENROLL_STATUS_DESC
 - AR_FINAID_APPLICANT_STATUS:
 - Modified setting of FINAID_APPLICANT_IND from calling the function F_FINAID_APPLICANT_IND to hardcoding it to the value 'Y'.
4. Reporting view:
 - FINAID_APPLICANT_STATUS has the following columns:
 - EXPECTED_ENROLL_STATUS
 - EXPECTED_ENROLL_STATUS_DESC
 5. Reporting Tools Business Concept that includes the new column in FINAID_APPLICANT_STATUS:
 - Admissions Application
 - Financial Aid Application
 - Financial Aid Award and Disbursement
 - Human Resource Application
 - Loan Disbursement
 - Person Role
 6. Reporting Tools Business Concept that includes the new reporting view APPLICANT_PERIOD_STATUS:
 - Financial Aid Application
 7. Object:Access view being de-supported:
 - AR_USER_DEFINED_FIELDS

Corrected retrieval of more than one aid enrollment period with the same term

Resolves Change Request Defect CR-000100911

Receiving more than one row retrieving the financial aid year causes an ORA-01422: exact fetch returns more than requested number of rows ORA-06512: at "ODSSRC.SOKODSF", line 1630 ORA-06512: at "SATURN.ST_SFRSTCR_INSERT_ODS_CHANGE", line 44 ORA-04088: error during execution of trigger 'SATURN.ST_SFRSTCR_INSERT_ODS_CHANGE'.

This occurs when a Student receives aid in one aid enrollment period for an aid period, for a specific academic period, the amount is recouped, and then the same academic period is paid in a different period of enrollment for the same aid period.

Solution

When retrieving the AID_YEAR, perform a select distinct on AID_YEAR within functions SOKODSF.F_GET_FINAID_PROC_YEAR, ROKODSF.F_GET_FINAID_PROC_YEAR, MRKFUNC.F_GET_AID_ENROLL_PERIOD, MRKFUNC.F_FINAID_APPLICANT_IND, MRKFUNC.F_GET_SUM_TOTAL_CREDITS_BY_AEP.

When retrieving the period of enrollment, test the new indicator AID_ENROLLMENT_PERIOD_USED_IND set on MGT_STUDENT_PERIOD_DEFINITION to determine the active period of enrollment for the aid year.

This new indicator is always set to 'Y'es except in cases where the same academic period is used more than once in an aid period for the same student. In this case, we will set the new indicator to 'Y' for the AID_ENROLLMENT_PERIOD with the maximum offer amount.

New objects

The following objects are added.

1. Function: ROKODSF.F_GET_AEP_USED_IND

Modified objects

The following objects are modified.

1. Composite View AR_STUDENT_PERIOD_DEFINITION added column:
 - AID_ENROLLMENT_PERIOD_USED_IND set to 'Y' to determine which aid enrollment period to use when the student has utilized the same term in two different aid enrollment periods within the same aid period for the same aid year.

The indicator is used to distinguish which aid enrollment period to use and populate on various reporting views. If more than one aid enrollment period is found to have the same academic period within the same aid period, the one that has the largest offer amount is used.
2. Composite table MGT_STUDENT_PERIOD_DEFINITION added column:
 - AID_ENROLLMENT_PERIOD_USED_IND
3. Functions:
 - SOKODSF.F_GET_FINAID_PROC_YEAR
 - Changed to use select distinct when extracting the AID_YEAR.
 - ROKODSF.F_GET_FINAID_PROC_YEAR
 - Changed to use select distinct when extracting the AID_YEAR.
 - MRKFUNC.F_GET_AID_ENROLL_PERIOD

Changed to test the new AID_ENROLLMENT_PERIOD_USED_IND to determine which aid year or aid enrollment period to extract.

- MRKFUNC.F_FINAID_APPLICANT_IND

Changed to test the new AID_ENROLLMENT_PERIOD_USED_IND to determine if a student is a financial aid applicant or not.

- MRKFUNC.F_GET_SUM_TOTAL_CREDITS_BY_AEP

Changed to test the new AID_ENROLLMENT_PERIOD_USED_IND to determine which aid enrollment period to use.



Note:

4. Financial Aid Student Object:Access view being de-supported due to multiple aid enrollment periods utilizing same academic period functionality:
 - AR_FINAID_STUDENT_SUMMARY

Integrated RORMVAL for LOAN_AGGREGATE descriptions and added new columns

Resolves Change Request Defect 1-1BKPV1Q

Financial Aid release 8.16 added new RORMVAL value for column POST_SCREEN_RSN_CDE AIDY 1314. Existing hard coded values are no longer valid.

Solution for Change Request Defect 1-1BKPV1Q

Changed composite view AR_LOAN_AGGREGATES to integrate RORMVAL to populate descriptions where available.

Resolves Enhancement CR-000116542

Banner Financial Aid 8.19 added two new columns to RCRLDS4 that should be evaluated for reporting purposes in the ODS. The new columns indicate if the 150% subsidized usage limit applies to the student and what the percentage of 150% subsidized Stafford loan limit was used.

New columns should be added to LOAN_AGGREGATES reporting view, sourced from RCRLDS4_SUB_USE_LIMIT_FLAG and RCRLDS4_SUB_LOAN_ELIG_USED.

Solution for Enhancement CR-000116542

Report on those students that have the 150% subsidized usage limit applied and what percentage of the 150% subsidized Stafford loan limit was used by adding columns SUBSIDIZED_150_USAGE_LIMIT_IND, SUBSIDIZED_150_USAGE_PERCENT to reporting view LOAN_AGGREGATES.

Resolves (partially) Enhancement CR-000116534 (Legacy ID 1-1BKPV0U)

Financial Aid release 8.16 added new columns to RCRLDS4 to support new enrollment tracking for the department of education. Columns: RCRLDS4_PELL_LEU_LIMIT_FLAG, RCRLDS4_ENROLL_PATTERN_FLAG. These new columns should be added to the LOAN_AGGREGATES reporting view.

Partial solution for Enhancement CR-000116534 (Legacy ID 1-1BKPV0U)

Partial fix in LOAN_AGGREGATES to add PELL_LIFETIME_ELIGIBILITY_USED, PELL_LIFETIME_LIMIT and PELL_LIFETIME_LIMIT_DESC, and ENROLLMENT_PATTERN and ENROLLMENT_PATTERN_DESC.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Composite view AR_LOAN_AGGREGATES replaced hard coded descriptions where appropriate from descriptions in RORMVAL.
2. Composite view AR_LOAN_AGGREGATES and Reporting view LOAN_AGGREGATES added new columns:
 - PELL_LIFETIME_ELIGIBILITY_USED
 - PELL_LIFETIME_LIMIT and PELL_LIFETIME_LIMIT_DESC
 - ENROLLMENT_PATTERN and ENROLLMENT_PATTERN_DESC
 - SUBSIDIZED_150_USAGE_LIMIT_IND
 - SUBSIDIZED_LOAN_YEARS_USE
 - EXCEED_SUBSIDIZED_LIMIT and EXCEED_SUBSIDIZED_LIMIT_DESC
 - EXCEED_COMBINED_LIMIT and EXCEED_COMBINED_LIMIT_DESC
 - EXCEED_GRAD_SUBSIDIZED_LIMIT and EXCEED_GRAD_SUB_LIMIT_DESC
 - EXCEED_GRAD_COMB_LIMIT and EXCEED_GRAD_COMB_LIMIT_DESC
3. Reporting Tools Business Concept that included new column for LOAN_AGGREGATES:
 - Financial Aid Award and Disbursement

Human Resources

The following sections describe the new data coverage enhancements related to Human Resources (HR) information.

Added missing part of Unique Index Key and missing columns in ODS from PHREARN

Resolves Enhancement CR-000106295

A critical column from Banner PHREARN used to identify the PRIMARY_KEY in ODS MPT_PAYROLL_EARNING was missing. This column needs to be added to primary key to distinguish duplicate records.

Solution

Added PHREARN_GEN_IND as SYSTEM_GENERATED_IND column to PAYROLL_EARNING view to prevent duplicate rows.

Brought in remaining PHREARN columns necessary for reporting.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. AP_PAYROLL_EARNING includes these new columns:
 - GENERATED_IND
 - UPDATED_HOURS
 - TIME_ENTRY_SEQUENCE_NUMBER
 - PRINT_SEQUENCE_NUMBER
 - PAYROLL_EARNING_ACTIVITY_DATE
 - PAYROLL_EARNING_USER_ID
2. PAYROLL_EARNING includes these new columns:
 - GENERATED_IND
 - UPDATED_HOURS
 - TIME_ENTRY_SEQUENCE_NUMBER
 - PRINT_SEQUENCE_NUMBER

- PAYROLL_EARNING_ACTIVITY_DATE
- PAYROLL_EARNING_USER_ID

Corrected CALC_RULE in HR BENEFIT_DEDUCTION

Resolves Defect CR-000108058

While the calculations being done are correct, there are some employer deduction contributions that are being ignored based on the changes made in a prior defect correction that are based on a CALC RULE that uses a percent.

In ODS 8.4.1, benefit deduction employer calculation rules numbered 21, 26, 30, 31, 32 are being skipped. This defect addresses adding these missing calculations based on the calculation rules that are a percent and not a flat amount.

Solution

Modified ODS to use all Banner defined Benefit Deduction calculation rules when calculating the employer contribution amount. Previously all the rules with a flat amount were used, but those that used a percent were skipped when the Employer Amount was calculated.

Defect correction also added a new column for Employer Percent to the Benefit Deduction reporting view. The calculation now correctly uses the following CALC rules defined in Banner HR as a percent - 11, 15, 21, 22, 26, 27, 30, 31, and 32.

New objects

There are no new objects added.

Modified objects

The following objects are modified:

1. Added a new column EMPLOYER_DEDUCTION_PERCENT in the following views to hold employer percent values and for CALC_RULE in (21, 26, 30, 31, 32).
 - Composite view AP_BENEFIT_DEDUCTION
 - Composite table MPT_BENEFIT_DEDUCTION
 - Reporting view BENEFIT_DEDUCTION
2. Function
 - POKODSF.F_GET_DEDUCTION_AMOUNTS:
 - Modified the ODSSRC package function to calculate the amounts for EMPLOYER_PERCENT group and for CALC_RULE in (21, 26, 30, 31, 32).
3. IBM Cognos FM model
 - Added column to Benefit Deduction in Employee.

4. Oracle Discoverer EUL
 - Added column to Benefit Deduction in Employee.

Added Determinants to Human Resources Payroll Package

Resolves Defect CR-000117354

Recent Cognos Framework Manager upgrades from 8.x has changed the aggregation behavior of facts on query subjects in the Payroll package.

Facts on a query subject are multiplying by the number of records that exist in joined query subjects when listing information from the joined query subjects.

Solution

A determinant was added to identify the lowest grain of each query subject to group by in the Payroll package that contains one or more measures and tells Cognos how to properly aggregate those facts.

Two query subjects could not be identified with a lowest grain since the source has no primary key - Payroll Distribution and Transaction History.

We identified a determinant at the lowest grain possible for grouping.

New objects

There are no new objects.

Modified objects

The following objects are modified.

1. Reporting Tools Business Concept that had Determinants added to query subjects with facts:
 - Payroll

Student

The following sections describe the new data coverage enhancements related to Student information.

Modified ADVISOR_COUNT function MSKFUNC.F_COUNT_ADVISORS

Resolves Change Request Defect 1-1DZ5GCI

The ODS Reporting Views STUDENT, STUDENT_EXTENDED, ACADEMIC_STUDY, and ACADEMIC_STUDY_EXTENDED show incorrect ADVISOR_COUNT value when there are advisor records with NULL ADVISOR_UID. This can occur when you enter a new effective term and a record with a blank PIDM for the advisor.

Solution

Modified the MSKFUNC.F_COUNT_ADVISORS function to omit NULL ADVISOR_UID.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Function
 - MSKFUNC.F_COUNT_ADVISORS has been corrected to omit NULL ADVISOR_UID in the count.

Modified joins in reporting tool to retrieve correct GPA values

Resolves Change Request Defect CR-000115293

An incorrect join in the reporting tool was not retrieving correct GPA values in several business concepts when using GPA_BY_LEVEL.

GPA_BY_LEVEL was joined only on PERSON_UID to the STUDENT reporting view in three business concepts (Student Detail, Active Registration and Financial Aid Award and Disbursement).

GPA_BY_LEVEL should be joined by PERSON_UID and ACADEMIC_STUDY_VALUE to the ACADEMIC_STUDY by PERSON_UID and STUDENT_LEVEL as well as the ACADEMIC_STUDY_EXTENDED by PERSON_UID and STUDENT_LEVEL.

Solution

Removed GPA_BY_LEVEL join to STUDENT and rejoined by PERSON_UID.

Joined ACADEMIC_STUDY_VALUE to the ACADEMIC_STUDY with PERSON_UID and STUDENT_LEVEL in packages Active Registration, Financial Aid Award, and Disbursement, and Student Detail.

Joined ACADEMIC_STUDY_EXTENDED with PERSON_UID and STUDENT_LEVEL in the Student Detail package.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Modified Reporting Tools Business Concepts by removing the join between GPA_BY_LEVEL and STUDENT and rejoining by PERSON_UID and ACADEMIC_STUDY_VALUE to the ACADEMIC_STUDY with PERSON_UID and STUDENT_LEVEL in packages:
 - Active Registration
 - Financial Aid Award and Disbursement
 - Student Detail
2. Created alias GPA By Level Extended in order to join to ACADEMIC_STUDY_EXTENDED in the Student Detail package only.

Corrected index numbering in Reconcile job for Student

Resolves Change Request Defect CR-000119792

Reconcile Job - Student for MST_MEDICAL_INFORMATION was trying to match on the LAST_ACTIVITY_DATE in the key values which caused it to show that there are no matching records.

Solution

This defect was a result of an ODS 8.4.1 patch that removed few indexes and renumbered an existing index on MST_MEDICAL_INFORMATION. The '01' index for this table was the LAST_ACTIVITY_DATE. This is picked up and used as part of the reconcile process for this table which is not needed. The index was renumbered to '02' and the entries in MGBINDX were corrected to match.

Workaround prior to ODS 8.5 (Run the following as IA_ADMIN):

```
DROP INDEX ODSMGR.MST_MEDICAL_INFO_INDEX_01;
```

```
CREATE INDEX ODSMGR.MST_MEDICAL_INFO_INDEX_02 ON  
ODSMGR.MST_MEDICAL_INFORMATION  
(LAST_ACTIVITY_DATE)
```

```
LOGGING
NOPARALLEL;

UPDATE MGBINDX
SET MGBINDX_INDEXNAME = 'MST_MEDICAL_INFO_INDEX_02'
WHERE MGBINDX_TABLENAME = 'MST_MEDICAL_INFORMATION'
AND MGBINDX_INDEXNAME = 'MST_MEDICAL_INFO_INDEX_01';
commit;
```

New objects

The following new objects are added.

1. New index ODSMGR.MST_MEDICAL_INFO_INDEX_02

Fixed granularity on TEST reporting view

Resolves Change Request Defect 1-1CZ5DBS

Modifications to add SORTSPT data changes the granularity of MST_TEST composite table and TEST reporting view.

Solution

ODS 8.4.1 release made an enhancement that added data columns from SORTSPT to the SORTEST data brought into the AS_TEST composite view, MST_TEST composite table, and TEST reporting view. This changed the granularity on the ODS table that impacts the load of the EDW Operational Star - TEST.

The workaround removes data from these columns but data needs to be brought into the ODS as a repeating table or view that may be joined to TEST when additional data is required.

Add new reporting view TEST_PERCENTILE containing test percentiles.

New objects

The following new objects are added.

1. New composite view AS_TEST_PERCENTILE
2. New composite table MST_TEST_PERCENTILE
3. New reporting view TEST_PERCENTILE

Modified objects

The following objects are modified.

1. Removed the TEST_PERCENTILE, TEST_PERCENTILE_TYPE, TEST_PERCENTILE_TYPE_DESC from TEST reporting view.

2. Added new column TEST_PERCENTILE_COUNT to TEST reporting view.
3. Corrected the index on TEST to PERSON_UID, TEST, TEST_DATE.
4. Updated the business concepts with the removed and added columns from TEST.
5. Added the new reporting view TEST_PERCENTILE to the business concepts that contain TEST reporting view.
 - Recruitment Information
 - Admissions Application
 - Person Supplemental

Improved reporting by removing query subjects that were not providing any added value

Resolves Enhancement CR-000119975

In a prior release of the ODS, ACADEMIC_STUDY_EXTENDED and STUDENT_EXTENDED were inadvertently added into some business concepts where it was not appropriate for reporting.

Active Registration business concept represents students who are registered. Using the reporting views STUDENT_EXTENDED or ACADEMIC_STUDY_EXTENDED would return rows no different than if using STUDENT or ACADEMIC_STUDY. These query subjects should be removed from this business concept.

Financial Aid Award and Disbursement business concept represents students who are offered an award. Both query subjects should also be removed from this business concept for the same reasons.

Solution for Enhancement CR-000119975

Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED from some business concepts.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED from the following packages:
 - Active Registration
 - Financial Aid Award and Disbursement
2. Removed STUDENT_EXTENDED from the following package:

- Enrollment Management
3. Removed ACADEMIC_STUDENT_EXTENDED from the following package:
 - Advisor Student List

Corrected Counts and Headcounts in Student's Packages for Admissions Application, Recruitment Information, and Student Detail

Resolves Defect CR-000110645

Counts and Headcounts that were added to several views such as Admissions Application have incorrect aggregation and are not giving the expected results.

Columns such as Applicant Headcount (distinct count of person submitting one or more applications) and Application Count (count of all applications) are adding the result for each row of data instead of the count calculated as defined in the FM model.

Solution

Headcount facts were changed to use Count Distinct on the Regular Aggregate.

Other counts were changed to use Count on the Regular Aggregate where necessary.

In addition, a determinant was added on the Admissions Application query subject in Admissions Application package, on the Recruitment Information query subject in the Recruitment Information package, and the Student query subject in the Student Detail package.

New objects

There are no new objects.

Modified objects

The following objects are modified.

1. Headcount facts were changed to use Count Distinct on the Regular Aggregate in the following packages:
 - Active Registration
 - Admission Application
 - Advisor Student List
 - Enrollment Management
 - Faculty Assignment
 - Financial Aid Application

- Person Role
 - Recruitment Information
 - Residential Life
2. Rank and Size query items were changed to use Average on the Regular Aggregate in the following packages:
- Slotted Views
 - Active Registration
 - Admission Application
 - Advisor Student List
 - Constituent
 - Employee
 - Financial Aid Application
 - Financial Aid Award and Disbursement
 - Government Reporting
 - Human Resource Application
 - Institution
 - Person Role
 - Person Supplemental
 - Recruitment Information
 - Student Detail
3. Percentile query items were changed to use Average on the Regular Aggregate in the following packages:
- Slotted Views
 - Admission Application
 - Advisor Student List
 - Constituent
 - Employee
 - Financial Aid Application
 - Government Reporting
 - Human Resource Application
 - Institution
 - Person Role
 - Person Supplemental
 - Recruitment Information
 - Student Detail

4. GPA query items defined as a number in reporting views were changed to use Average on the Regular Aggregate formatted to 3 decimal places in the following packages:
 - Slotted Views
 - Active Registration
 - Admission Application
 - Advisor Student List
 - Constituent
 - Employee
 - Enrollment Management
 - Financial Aid Application
 - Financial Aid Award and Disbursement
 - Government Reporting
 - Human Resource Application
 - Institution
 - Person Role
 - Person Supplemental
 - Recruitment Information
 - Student Detail
5. Date query items were formatted DD-MMM-YYYY in the following packages:
 - Admission Application
 - Recruitment Information
 - Student Detail
6. A determinant was added on the Admissions Application query subject in Admission Application package.
7. A determinant was added on the Recruitment Information query subject in the Recruitment Information package.
8. A determinant was added on the Student query subject in the Student Detail package.

Degree Works and Banner XE Registration in ODS

Banner ODS release 8.5 has integrated Degree Works and Banner XE Registration into the Banner Operational Data Store to provide institutions with reporting opportunities. This solution has brought in major enhancements that are explained in the following sections.

- [Added Audit Student, a new business area for Degree Works](#)
- [Created new Registration Planning views in ODS](#)

- [Added Block Registration codes to Student course](#)
- [Created Cascading prompts with Materialized views for report prompts](#)

Added Audit Student, a new business area for Degree Works

Resolves Enhancement CR-000107551 (Legacy ID 1-668LA5)

ODS had no ETLs or base tables to store data from Degree Works. Degree Works currently has some views and Crystal reports to look at specific areas of Degree Works audit data.

Specific enhancements have been made to move the reportable data from Degree Works to the ODS so that multiple reporting tools are not necessary. This would also provide the ability to easily create ad hoc reports for Degree Works.

A new business area has been built within ODS that users can create ad hoc reports for comprehensive reporting against Degree Works auditing data for analysis.

Solution

Created new reporting views AUDIT_STUDENT_BLOCK, AUDIT_STUDENT_COURSE, AUDIT_STUDENT_NON_COURSE that were built into a new business concept Audit Student to answer questions about audited students.

New objects

The following objects are added.

1. Administrative User Interface

- New ODS extract parameters to identify Degree Works audit block ranges in MTVPARM.
 - REQUIRE_PCT_COMPLETE_RANGE
 - CREDITS_PCT_COMPLETE_RANGE
 - CREDITS_NEEDED_RANGE
 - COURSES_NEEDED_RANGE
 - CREDITS_APPLIED_RANGE
 - COURSES_APPLIED_RANGE
 - GPA_RANGE



Note: You can modify the ranges delivered in the ODS EXTRACT PARAMETERS according to your institution's reporting needs.

2. New PARAMETER MAPs (MTVPARM):

- INTERNAL CODE 1 = 'STUDENT CLASSIFICATION' - used to identify order of displaying Student Classification in ODS reports.

- INTERNAL CODE 1 = 'POSITIVE INDICATORS (1)'
- INTERNAL CODE 2 =
 - NULL VALUE
 - NULL DESC
 - NULL LONG DESC

These null values are used to display a value in reports when no values exist. Delivered value for NULL VALUE is 'No Data', NULL DESC is 'Data Not Avail', and NULL LONG DESC is 'Data not available'.



Note: Clients will need to modify the STUDENT CLASSIFICATION order delivered PARAMETER MAP according to the way they want student classification order to display in reports.

3. New Functions:

- DOKODSF.F_GET_DW_PIDM:
Obtains SPRIDEN_PIDM with Degree Works Student ID
- DOKODSF.F_GET_AUD_RUN_DT:
Obtains audit run date in Degree Works from DAP_RESULT_DTL where the DAP_RESULT_TYPE = 'AUDITID'.
- MRKFUNC.F_GET_FIN_AID_AWARDED_IND:
Retrieves the aid enrollment period for the academic period and then determines if the student was either offered aid or the student accepted aid or the student had an offer amount greater than zero to set the indicator to 'Y'.
- MRKFUNC.F_GET_FIN_AID_DISBURSED_IND:
Determines if the student was disbursed aid for the academic period.
- MRKFUNC.F_GET_FIN_AID_LOAN_IND:
Retrieves the aid enrollment period for the academic period and then determines if the student's offer amount is greater than zero for the fund and if the fund type is a loan to set the indicator to 'Y'.
- MSKFUNC.F_GET_STDNT_ATTR_CNT:
Counts the number of student attributes
- MSKFUNC.F_GET_REG_PLAN_IND:
Determines if a student plan exists and also determines if the student plan is active.
- MDKFUNC.F_GET_THIRD_PARTY_PLAN_IND:
Sets indicator to 'Y' if a Degree Works plan exists and also determines if the Degree Works plan is active.
- MDKFUNC.F_GET_THIRD_PARTY_PLAN_CNT:
Counts the number of student Degree Works plans for the academic period.

4. New Composite views
 - AD_AUDIT_STUDENT_COURSE
 - AD_AUDIT_STUDENT_BLOCK
 - AD_AUDIT_STUDENT_NON_COURSE
5. List of Value views
 - LOV_APPROVAL_STATUS
 - LOV_AUDIT_RESULT_TYPE
 - LOV_AUDIT_TYPE
 - LOV_BLOCK_RULE_LABEL
 - LOV_BLOCK_TYPE
 - LOV_BLOCK_VALUE
 - LOV_CITIZEN_TYPE
 - LOV_CONCENTRATION
 - LOV_COURSE_CREDIT_TYPE
 - LOV_COURSE_STATUS
 - LOV_COURSE_TAKE_TYPE
 - LOV_COURSES_APPLIED_RANGE
 - LOV_COURSES_NEEDED_RANGE
 - LOV_CREDITS_APPLIED_RANGE
 - LOV_CREDITS_NEEDED_RANGE
 - LOV_CREDITS_PCT_COMPLETE_RANGE
 - LOV_GPA_RANGE
 - LOV_INSUFFICIENT_REASON
 - LOV_MINOR
 - LOV_NON_COURSE
 - LOV_PLAN_SOURCE
 - LOV_RACE_CATEGORY
 - LOV_REQUIRE_PCT_COMPLETE_RANGE
 - LOV_SPORT
 - LOV_SPORT_ELIGIBILITY
 - LOV_STUDENT_ATTRIBUTE
 - LOV_TRACKING_STATUS
6. Materialized List of Value views:
 - MPV_ADVISOR_NAME

- MPV_ALL_PROGRAM
 - MPV_AUDIT
 - MPV_BLOCK_TYPE
 - MPV_GEOGRAPHIC_DIVISION
 - MPV_PROGRAM
 - MPV_REGISTRATION_PLAN
 - MPV_REGISTRATION_PLAN_COURSE
 - MPV_STUDENT_CLASSIFICATION
 - MPV_STUDENT_POPULATION
7. New Reporting views
 - AUDIT_COURSE_NEEDED
 - AUDIT_STUDENT_BLOCK
 - AUDIT_STUDENT_COURSE
 - AUDIT_STUDENT_NON_COURSE
 8. New Reporting Tools Business Concepts
 - Audit Student

Modified objects

The following objects are modified.

1. List of Value views:
 - LOV_MAJOR is modified to only represent Majors.
 - LOV_GEOGRAPHIC_AREA is modified to include the division in the qualifier and extracted from SORGEOR instead of STVGEOR.
2. Reporting views STUDENT and STUDENT_EXTENDED are modified by adding new columns:
 - FINANCIAL_AID_AWARDED_IND to determine if the student has been awarded financial aid.
 - FINANCIAL_AID_DISBURSED_IND to determine if the student has been disbursed financial aid.
 - FINANCIAL_AID_LOAN_IND to determine if the student has a financial aid loan.
 - STUDENT_ATTRIBUTE_COUNT
 - BLOCK_REGISTRATION_COUNT
 - STUDENT_PLAN_EXISTS_IND
 - THIRD_PARTY_PLAN_EXISTS_IND
 - STUDENT_PLAN_ACTIVE_IND
 - THIRD_PARTY_PLAN_ACTIVE_IND

- ENROLLED_IND
 - REGISTERED_IND
3. Modified PERSON_ADDRESS by adding new column:
 - ADDRESS_NUMBER in order to join to GEOGRAPHIC_REGION with the appropriate address type and address number for future use.
 4. Reporting Tools Business Concept includes these new columns in PERSON_ADDRESS:
 - Active Registration
 - Admissions Application
 - Advancement Prospect
 - Advancement Rating
 - Advisor Student List
 - Annual Giving
 - Campaign Giving History
 - Constituent
 - Designation Giving History
 - Employee
 - Enrollment Management
 - Event
 - Faculty Assignment
 - Financial Aid Application
 - Financial Aid Award and Disbursement
 - Government Reporting
 - Human Resource Application
 - Human Resource Faculty
 - Loan Disbursement
 - Payroll
 - Person Demographic
 - Pledge
 - Position
 - Receivable Customer
 - Receivable Revenue
 - Recruitment Information
 - Relationship
 - Student Detail

5. Reporting Tools Business Concept includes these new columns in STUDENT:
 - Active Registration
 - Advisor Student List
 - Enrollment Management
 - Financial Aid Award and Disbursement
 - Human Resource Application
 - Loan Disbursement
 - Person Role
 - Residential Life
 - Student Detail
6. Reporting Tools Business Concept includes these new columns in STUDENT_EXTENDED:
 - Human Resource Application
 - Person Role
 - Residential Life

Created new Registration Planning views in ODS

Resolves Enhancements CR-000107707 and CR-000107551

Banner Student 8.6 release has new database tables MST_REGISTRATION_PLAN and MST_REGISTRATION_PLAN_COURSE that are used by Banner Student XE Registration to store courses intended for students. These tables and/or sections as permitted by the institutions would be brought into the ODS for reporting on registration plans.

This also includes the new Degree Works Plan functionality. The final solution contains data available in either or both products as used by the institution.



Note: If your institution has not upgraded to Banner Student 8.6.5 and is not using the Banner XE Registration release, the MST_REGISTRATION_PLAN and MST_REGISTRATION_PLAN_COURSE tables will not be populated.

Solution

The solution has been implemented by providing data into the ODS from Banner Student tables SFBPLAN and SFRPLAN for Banner XE Registration clients, and/or data from Degree Works SEP_PLAN, SEP_PLAN_TERM, SEP_PLAN_GROUP, and SEP_PLAN_CLASS tables for Degree Works clients using the new Plan functionality for reporting.

This required several improvements, such as creating a new reporting business concept, adding several new reporting views, and delivering pre-defined IBM Cognos reports.

New objects

The following new objects are added.

1. New List of Value views:
 - LOV_APPROVAL_STATUS
 - LOV_TRACKING_STATUS
 - LOV_PLAN_SOURCE
2. New Composite Views:
 - AD_PLAN_TEMPLATE_COURSE
 - AD_REGISTRATION_PLAN_COURSE
 - AD_REGISTRATION_PLAN
 - AS_REGISTRATION_PLAN_COURSE
 - AS_REGISTRATION_PLAN
3. New Composite tables:
 - MDT_REGISTRATION_PLAN_COURSE
 - MDT_REGISTRATION_PLAN
 - MDT_PLAN_TEMPLATE_COURSE
 - MST_REGISTRATION_PLAN_COURSE
 - MST_REGISTRATION_PLAN
4. New Reporting views:
 - REGISTRATION_PLAN_COURSE
 - REGISTRATION_PLAN
 - PLAN_TEMPLATE_COURSE
 - PROJECTED_SEATS_NEEDED
5. New Reporting Tools Business Concepts (added to IBM Cognos FM Model and Oracle Discoverer End User Layer):
 - Registration Plan

Modified objects



Note: See the complete list of changes for STUDENT and STUDENT_EXTENDED for new columns listed and business concepts modified above in the Degree Works section for Audit Student.

Added Block Registration codes to Student course

Resolves Enhancement CR-000107708

Block Registration codes identify a group of students and a set of course sections. When a student registers for a course, the block registration code will automatically populate the registration course section information.

This enhanced processing permits multiple block codes with different sets of course sections to be associated to a student. The block registration code may have rules that control on-line processing of whether the course sections may be overridden (dropped) or must be registered.

Solution

Banner Student 8.6 release introduced enhanced processing and controls for creating and using Block Registration.

New block registration codes are added to the Banner tables SFRSTCA and SFRSTCR. A count of block registration codes assigned for the academic period are added on the STUDENT and STUDENT_EXTENDED reporting views.

New block registration codes used to create this course section registration are added on the STUDENT_COURSE and STUDENT_COURSE_REG_AUDIT reporting views.



Note: If your institution has not upgraded to Banner Student 8.6.5 and is not using the Banner XE Registration release, the MST_BLOCK_REGISTRATION table will not be populated.

New objects

The following objects are added.

1. Functions:
 - MSKFUNC.F_GET_BLOCK_REG_CNT: Counts the number of block registration codes assigned to the student.
2. Composite View:
 - AS_PERSON_BLOCK_REGISTRATION_COURSE
3. Composite Table:
 - MST_BLOCK_REGISTRATION_COURSE
4. Reporting View:
 - BLOCK_REGISTRATION_COURSE

Modified objects

The following objects are modified.

1. Reporting View:

- STUDENT
 - BLOCK_REGISTRATION_COUNT
 - STUDENT_EXTENDED
 - BLOCK_REGISTRATION_COUNT
 - STUDENT_COURSE
 - BLOCK_REG_SEQUENCE_NUMBER
 - BLOCK_REGISTRATION
 - BLOCK_REGISTRATION_DESC
 - STUDENT_COURSE_AUDIT
 - BLOCK_REG_SEQUENCE_NUMBER
 - BLOCK_REGISTRATION
 - BLOCK_REGISTRATION_DESC
2. Modified Reporting Tools Business Concepts:
- Active Registration

Created Cascading prompts with Materialized views for report prompts

Resolves Enhancement CR-000118751

Cascading prompts with Materialized views have been introduced for report prompts in the Banner ODS release 8.5 as a solution in reports. Created from ODS composite tables, it enables you to obtain a distinct list of values for a set of codes in report prompts. That is, when you click on a cascading source prompt, it automatically opens up a second list of values corresponding to it. This greatly improves the usability experience for clients who utilize prompts in their reports.

New objects

The following objects are added:

1. New Materialized views created under ODSLOV schema:
 - MPV_ACADEMIC_STANDING
 - MPV_ADVISOR_NAME
 - MPV_ALL_PROGRAM
 - MPV_AUDIT
 - MPV_BLOCK_TYPE
 - MPV_GEOGRAPHIC_DIVISION
 - MPV_PROGRAM
 - MPV_REGISTRATION_PLAN_COURSE

- MPV_REGISTRATION_PLAN
 - MPV_STUDENT_CLASSIFICATION
 - MPV_STUDENT_POPULATION
2. New Indexes with columns:
- IND_MPV_AUDIT_1
 - AUDIT_ACADEMIC_PERIOD
 - STUDENT_LEVEL
 - AUDIT_TYPE
 - PROGRAM
 - IND_MPV_BLOCK_TYPE_1
 - BLOCK_TYPE
 - IND_MPV_GEOGRAPHIC_DIVISION_1
 - GEOGRAPHIC_REGION
 - IND_MPV_PROGRAM_1
 - ACADEMIC_PERIOD
 - PROGRAM



Note: See the complete list of changes for STUDENT and STUDENT_EXTENDED for new columns listed and business concepts modified above in the Degree Works section for Audit Student.

Travel and Expense

The following sections describe the new data coverage enhancements related to Travel and Expense information.

Added Indirect Cost encumbrance type 'I' and Travel and Expense encumbrance type 'T'

Resolves Enhancement CR-000104285

Banner Finance release 8.9 added new encumbrance type and source that is used to identify and encumber indirect costs for grant processing. These new values of 'I' and 'T' need descriptions added in the ODS to identify the encumbrance source and type for 'Indirect Cost' and 'Travel and Expense'. Otherwise the descriptions will be displayed as 'Unknown'.

Solution

Added descriptions for Indirect Cost encumbrance type 'I', and Travel and Expense encumbrance type 'T' to identify new ENCUMBRANCE_SOURCES.

New objects

No new objects are added.

Modified objects

The following objects are modified.

1. Composite view AF_ENCUMBRANCE includes new source indicators in the ENCUMBRANCE_SOURCE column:
 - 'I' (Indirect Cost)
 - 'T' (Travel and Expense)
2. Composite view AF_VALIDATION includes new descriptions in support of the new encumbrance types:
 - Indirect Cost Encumbrance (Description for new ENCUMBRANCE_TYPE of 'I')
 - Travel and Expense Encumbrance (Description for new ENCUMBRANCE_TYPE of 'T')

Performance Enhancements

Some of the RPEs addressed with this release improve performance for staging tables into the ODS and the Load/Refresh processing. The performance improvements include:

- [Added Banner ODS Preprocessor for Banner XE with Parallel Restaging solution](#)
- [Added ability to drop and recreate Indexes on large tables](#)
- [Added the ability to run ODS load and refresh jobs in parallel](#)

Added Banner ODS Preprocessor for Banner XE with Parallel Restaging solution

Resolves Enhancement 1-1G7OXTL and pcr-000110290

A Banner XE upgrade leads to an action known as “enabling” a Banner table. This enabling process occurs on every row in the Banner tables, causing the ODS change table trigger to get fired, that in turn results in the possibility of accumulating one change table record for every row in the table. This forces the user to run a complete reload to empty the ODS change tables.

The subsequent nightly refresh takes a long time to execute as a large number of change records make the refresh process run longer. In most cases, the REFRESH runs longer than a LOAD job.

Solution

The ODSPREBXE solution is delivered as part of the Banner ODS change request RPE1-1g7oxtl patch. This patch includes the following two main components that simplify any Banner XE software installation:

- Banner ODS Preprocessor for Banner XE
- ODS Parallel Staging

Banner ODS Preprocessor for Banner XE

The Banner ODS Preprocessor for Banner XE solution is developed to prevent change table entries from being created when Banner tables are “enabled”; which eliminates the need to reload ODS tables, process unnecessary change records, or run a refresh that takes an extremely long time to complete.

The ODSPREBXE avoids these issues for both of the ODS staging solutions (Oracle Materialized Views or Oracle Streams).

A set of SQL scripts called Database Extension Utility (DBEU) is executed on the Banner database to configure the Banner database in preparation for Banner XE. This is for the Oracle Streams framework.

ODS Parallel Staging

A parallel staging feature is implemented in the ODS databases to help reduce the time needed to complete tasks such as restaging tables. The SQL scripts generated by the ODSPREBXE restage the tables in parallel, which speeds up the restaging process.

The parallel staging feature can be configured to maximize efficiency on the database and use multiple concurrent processes when staging tables.



Note: Parallel Staging solution can be used with both Staging and Restaging tables, whether ODSPREBXE solution is used or not.

New objects

The following objects are added:

1. MGKOUT1 and MGKOUTL

These are utility packages created to contain the objects needed by the “Banner ODS Preprocessor for Banner XE”.

2. ODSPREBXE.pl

This is a Perl program which extracts all the DBEU extend calls from the Banner XE upgrade directory (staging # directory) and creates the ODSPREBXE-generated SQL # files which are executed prior to the Banner XE upgrade installation.

3. ODSPREBXE_MVIEWS_LOGON.sql

This script is created to prevent new Banner Oracle sessions.

4. ODSPREBXE_STREAMS_LOGON.sql

This script is used to set the Oracle streams tag on new DBEU_OWNER sessions.

5. P_STAGING_HEALTH_CHECK.sql

This procedure is used by the Banner MGKOUTL package. It validates all the ODS database links used for staging tables.

6. RESTAGING_JOB_STATUS.sql

This is a utility script to generate detailed information about the restaging job executed, from an SQL*Plus session connected as ODSSSTG to either Banner or the Banner BI database. The Banner BI job number is requested at the time of execution.

Modified Objects

The following objects are modified.

1. MGKCRP1

Modified the “P_VIEWREPORT” procedure and added the “P_GENERATEREPORT” procedure and “F_RETURNREPORT” function. This package is used for the “restaging_job_status.sql” utility.

2. MGKCRPT

Added the “TAB_REPORT_OUTPUT” table and the “F_RETURNREPORT” function. This package is used for the “restaging_job_status.sql” utility.

3. MGKMVE1

- Added overloaded version of P_REFRESH.
- Existing P_REFRESH has been altered to call new procedure for its MViews refresh.
- The procedures P_ALTER_TRIGGERS and P_DROP_MVIEWS are altered to include lock logic.
- The overloaded P_REFRESH includes logic to prevent the execution of the MViews refresh when the mtvparm parameter MVIEWS_REFRESH_ENABLED exists and the external code is set to the value 'N'.

4. MGKMVEW

- Added overloaded version of P_REFRESH.

5. The following modifications are made in MGKSTG1:

- Added P_STAGE_TABLE_PARALLEL, it provides the ability to re-stage with both staging method in parallel mode.
- The “do_restage” section of P_RECONCILE_STAGE is modified to call P_STAGE_TABLE_PARALLEL and use the new global variable gv_restage_extras.
- The subprocedure p_loadParams of P_RECONCILE_STAGE is modified to restage the tables in non reload mode even if the tables don't exist in ODS.
- The procedure P_RESTORE_TRIGGERS was modified with DBMS_LOCK calls to permit parallel restage execution.
- The P_REFRESH_MVIEW was modified to call the MGKMVEW.REFRESH API.
- The P_REFRESH_MVGROUP was modified to refresh conditionally.

6. Added the following to MGKSTGU

- P_STAGE_TABLE_PARALLEL
- P_SET_GV_LIST_LOAD_MAP

7. New global variable added to MGKSTRM:

- GV_CHG_STREAMS_PROCESS_STATUS

8. MGKSTRM1

- Modified the “P_ADD_TO_LOCAL_ENV” procedure to only change the Oracle capture/apply status when the global variable GV_CHG_STREAMS_PROCESS_STATUS is defined with the value “Y”.

9. MGKUT1

- Added F_SCAN_REMOTE function to permit remote F_SCAN calls.

10. MGKUTIL

- Added F_SCAN_REMOTE function to permit remote F_SCAN calls.

Eliminated email notifications for Parallel Staging child jobs

Resolves Enhancement CR-000109631

As part of the ODSPREBXE patch and the parallel staging solution, child jobs are run, that is, each table is staged in parallel mode. When each child job completes, an email is sent if the Administrative User Interface Job Notification feature is enabled. Restaging an entire ODS environment could produce, for example, 700 emails.

Solution

The MGKSTGU.P_STAGE_TABLE_PARALLEL has been altered with one extra line to disable email notifications from staging child jobs runtime.

Follow the below steps to make the change:

1. Open the "MGKSTGU" package.
2. Locate the "P_STAGE_TABLE_PARALLEL" procedure.
3. Include the following lines after the "BEGIN" statement:

```
----  
  
-- Disable JOB NOTIFICATION for this 'child' job  
  
----  
  
mgkutil.jobNotifyDisabled := TRUE;
```

Added ability to drop and recreate Indexes on large tables

Resolves Change Request Defect CR-000111669

The ODS LOAD jobs takes considerable amount of time to load data. This solution will provide the ability to drop indexes on some of the larger tables during the ETL process to improve load and refresh.

Solution

Created a configurable parameter to enable the dropping of table indexes prior to a load or refresh in order to improve the performance of the ETL.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

Non-partitioned load jobs/mappings

1. The following non-partitioned load mappings have been modified.
 - Student
 - LOAD_MST_STUDENT_COURSE_STEP_1
 - LOAD_MST_STUDENT_COURSE_STEP_2
 - LOAD_MST_STUDENT_COURSE_STEP_3
 - Finance
 - LOAD_MFT_TRANS_HISTORY_1
 - LOAD_MFT_TRANS_HISTORY_2
 - LOAD_MFT_TRANS_HISTORY_3
 - LOAD_MFT_TRANS_HISTORY_4
 - LOAD_MFT_TRANS_HISTORY_5
 - HR/Payroll
 - LOAD_MPT_PAYROLL_DIST
2. New procedures are added in MGKUTIL package to facilitate the dropping and creation of indexes:
 - IA_ADMIN.MGKUTIL.P_DROPINDEXES
 - IA_ADMIN.MGKUTIL.P_CREATEINDEXES
3. The following changes have been implemented in non-partitioned load mappings.
 - Dropping of all the BTREE indexes before loading the data.
 - Re-creation of all the BTREE indexes after loading the data.
 - Indexes are re-created using the below clauses:
 - NOLOGGING – The indexes logging mode, LOGGING or NOLOGGING, is controlled or configured through MTVPARM parameter.
 - PARALLEL <DEGREE> – The value of Degree is configured through MTVPARM parameter.

- COMPRESS

Partitioned Jobs/Mappings

1. The following Partitioned load mappings have been modified.

- Student

- LOAD_MST_STUDENT_COURSE_PART1
- LOAD_MST_STUDENT_COURSE_PART2
- LOAD_MST_STUDENT_COURSE_PART3
- LOAD_MST_STUDENT_COURSE_PART4
- LOAD_MST_STUDENT_COURSE_PART5

- Finance

- LOAD_MFT_TRANS_HISTORY_1_PART
- LOAD_MFT_TRANS_HISTORY_2_PART
- LOAD_MFT_TRANS_HISTORY_3_PART
- LOAD_MFT_TRANS_HISTORY_4_PART
- LOAD_MFT_TRANS_HISTORY_5_PART

- HR/Payroll

- LOAD_MPT_PAYROLL_DIST_PART1
- LOAD_MPT_PAYROLL_DIST_PART2
- LOAD_MPT_PAYROLL_DIST_PART3
- LOAD_MPT_PAYROLL_DIST_PART4
- LOAD_MPT_PAYROLL_DIST_PART5

2. Indexes on following tables are converted to local indexes from global indexes.

- MFT_TRANS_HISTORY
- MPT_PAYROLL_DISTRIBUTION
- MST_STUDENT_COURSE

3. The ODSMGR.ADD_EXCHANGE_PARTITION procedure is modified to create indexes by partitions in case they are local indexes or create Global indexes in case they are non-partitioned indexes.

4. The following changes have been implemented in partitioned load mappings.

- The Global Indexes on the partitioned table are converted to local indexes, that is, Index by partitions.
- Indexes are re-created using the below clauses:
 - NOLOGGING – The indexes logging mode, LOGGING or NOLOGGING, is controlled or configured through MTVPARM parameter.
 - PARALLEL <DEGREE> – The value of Degree is configured through MTVPARM parameter.

– COMPRESS

MTVPARAM parameters

The following MTVPARAM parameters have been modified.

- ETL_JOB_CONFIGURATION
- ODS_INDEX_CREATION



Note: The ODS_INDEX_CREATION parameter is set to the lowest level of 1 by default. You can configure it in Administrative User Interface to the level that is convenient for your institution.

Added the ability to run ODS load and refresh jobs in parallel

Resolves Change Request Defect CR-000111669

The ODS ETL Load and Refresh jobs scheduling are enhanced to allow parallel scheduling of the jobs and enable concurrent execution of multiple jobs. The framework for the parallel execution is similar to the one implemented for EDW parallelization that is made as part of defect 1-1DVF1JL.

Solution

Created a configurable MTVPARAM parameter ODS_JOB_SCHEDULING_MODE to enable users control to switch between Parallel and Serial (As-Is) job scheduling modes. In using this new parameter setting, current jobs get scheduled sequentially or concurrently. No new jobs are created.

New objects

There are no new objects added.

Modified objects

The following objects are modified.

1. Control reports

The current ODS process names get appended with the text “-P-W” when they are executed in parallel mode. For example, LOAD_ALL in Serial mode becomes LOAD_ALL-P-W when run in Parallel mode.

2. The following MTVPARAM parameters have been modified.

- ETL_JOB_CONFIGURATION

- ODS_JOB_SCHEDULING_MODE
- PARALLEL_MODE



Note: Please see the section “Run ETL Load or Refresh jobs in parallel” under the “Set Up Banner ODS” chapter of the *Banner ODS Administration Guide* for information on how to configure the MTVPARM parameter ODS_JOB_SCHEDULING_MODE.

ODS load jobs that support parallelization

- Load All Banner ODS Products
- Load Accounts Receivable
- Load Advancement
- Load Degree Works
- Load Financial Aid
- Load Finance
- Load General
- Load Human Resources
- Load Relationship Management
- Load Student
- Load Travel and Expense

ODS refresh jobs that support parallelization

- Refresh All Banner ODS Products
- Refresh Accounts Receivable
- Refresh Advancement
- Refresh Degree Works
- Refresh Financial Aid
- Refresh Finance
- Refresh General
- Refresh Human Resources
- Refresh Relationship Management
- Refresh Student
- Refresh Travel and Expense

Administrative User Interface Enhancements

Some items within the Administrative User Interface (UI) are updated to enhance your use of this tool. The following sections outline new and updated functionality within the Administrative UI. These enhancements are briefly described here. Refer to the *Administrative User Interface* chapter of the *Banner ODS Administration Guide* for more details.

Staging changes

Subsequent to the integration of Degree Works with Banner ODS, important staging changes have been made to the ODS database.

- ODS architecture is modified to stage Degree Works data through Streams or Materialized Views.



Note: Staging Area Status Reports need to be scheduled and run separately for each of the two source database environments available - Banner and Degree Works.

- ODS Parallel Staging feature is implemented in ODS databases to help reduce the time needed to complete tasks such as restaging tables.
- Banner ODS Preprocessor for Banner XE (ODSPREBXE) solution is implemented that eliminates the need to reload ODS tables, process unnecessary change records, or run a refresh that takes an extremely long time to complete.

Miscellaneous Enhancements

ODS 8.5 release has the following miscellaneous enhancements that came about with the integration of Degree Works with Banner ODS. The integration of both Degree Works and Banner XE Registration into the Banner Operational Data Store has brought about a creation of new reporting business concepts, addition of several new reporting views, and many pre-defined IBM Cognos reports.

New Business Concepts and Data models diagrams

The following business concepts and data models diagrams have been added with this release:

- Audit Student
- Registration Plan

Materialized view cascading report prompts

Ellucian introduced a solution using Materialized views for cascading report prompts. This enables institutions to get a distinct list of values for a set of codes in report prompts and greatly improves the performance when using the prompts in the reports. These materialized views can also be leveraged for any other reports that users might create. The following is a list of the materialized views:

- MPV_ACADEMIC_STANDING
- MPV_ADVISOR_NAME
- MPV_ALL_PROGRAM
- MPV_AUDIT
- MPV_BLOCK_TYPE
- MPV_GEOGRAPHIC_DIVISION
- MPV_PROGRAM
- MPV_REGISTRATION_PLAN
- MPV_REGISTRATION_PLAN_COURSE
- MPV_STUDENT_CLASSIFICATION
- MPV_STUDENT_POPULATION

Documentation Enhancements

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

Reorganized Banner ODS books

The *Banner ODS Handbook* that existed with previous releases of the ODS was reorganized into the following two new books.

Banner ODS Administration Guide

This guide is intended for ODS administrators who need to understand the ODS architecture and maintain the database. It includes the following information that existed in the *Banner ODS Handbook*:

- Set Up Banner ODS
- Architecture
- Administrative User Interface
- Cognos Integration

Banner ODS User Guide

This guide is intended for end users who will run reports from the database. It includes the following information that existed in the *Banner ODS Handbook*:

- Banner ODS Business Concepts
- Data Models
- Banner ODS Reports
- Self-Service Reporting

Added new “Banner ODS Reports” chapter to *Banner ODS User Guide*

A new chapter titled “Banner ODS Reports” was added to the *Banner ODS User Guide*. This chapter describes the new reports delivered in ODS 8.5 release for two new Business Concepts Audit Student and Registration Plan.

1. Audit Student reports:
 - Audit Student by Range Summary

- Audit Student List Detail
 - Audit Student Course List Detail
 - Audit Student Non-Course List Detail
2. Registration Plan reports:
- Projected Plan Seat Count Summary
 - Projected Plan Course List Detail

Removed “Composite View Meta Data” section from the *Banner ODS Administration Guide*

The section “Composite View Meta Data” has been removed from the Architecture and the Administrative User Interface chapters of the *Banner ODS Administration Guide*, as Ellucian will not be providing or maintaining the Banner ODS composite view meta data moving forward.

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 8.5 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 8.5 Changed Objects.csv file, which was delivered with your product documentation.

Banner ODS Cognos filters

The Banner ODS 8.5 Cognos Filters.csv file includes a detailed list of the filters added to ODS Cognos model. To view the list, access the Banner ODS 8.5 Cognos Filters.csv file, which was delivered with your product documentation.

Banner ODS display rules

The Banner ODS 8.5 displayRulesXREF.csv file lists all display rules delivered as part of Administrative User Interface. To view the list, access the Banner ODS 8.5 displayRulesXREF.csv file, which was delivered with your product documentation.

New and Changed Objects

The following sections briefly describe the objects that were added or changed or de-supported with this release of the Banner ODS.

Cognos changed objects

The following Cognos packages were added or updated with this release to correct some defects.

Active Registration

Fixes Enhancement CR-000119975

Cognos Framework Manager model updated:

- Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED.

BCD updated:

- Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED.

ERD updated:

- Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED.

Fixes defect 1-18Z8EPB

BCD updated:

- Added CATEGORY to key in MEETING_TIME and INSTRUCTIONAL_ASSIGNMENT.
- Changed join between STUDENT_COURSE and MEETING_TIME to INSTRUCTIONAL_ASSIGNMENT and MEETING_TIME.

ERD updated:

- Added CATEGORY to key in INSTRUCTIONAL_ASSIGNMENT.

Admissions Application

Fixes defect 1-1CHQE06

Cognos Framework Manager model updated:

- The following query items are added to Previous Education Slot:
 - PS_AWARD_CATEGORY_1
 - PS_AWARD_CATEGORY_DESC_1
 - PS_AWARD_CATEGORY_2
 - PS_AWARD_CATEGORY_DESC_2
 - PS_AWARD_CATEGORY_3
 - PS_AWARD_CATEGORY_DESC_3

Advisor Student List

Fixes defect 1-1DOJJ51

Cognos Framework Manager model updated:

- Updated the join condition including 'COURSE_REFERENCE_NUMBER' between STUDENT_COURSE AND STUDENT_COURSE_ATTRIBUTE.

Fixes Enhancement CR-000119975

Cognos Framework Manager model updated:

- Removed ACADEMIC_STUDY_EXTENDED.

Budget Availability Ledger

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

Budget Detail

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.
- Added ACTIVITY_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.
- Added ACTIVITY_ATTRIBUTES.

Employee

Fixes defect 1-18Z8EPB

ERD updated:

- Added CATEGORY to key in INSTRUCTIONAL_ASSIGNMENT.

Encumbrance

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

Endowment Distribution

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

Endowment Unit

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

Enrollment Management

Fixes Enhancement CR-000119975

Cognos Framework Manager model updated:

- Removed STUDENT_EXTENDED.

BCD updated:

- Removed STUDENT_EXTENDED.

Faculty Assignment

Fixed defect 1-18Z8EPB

BCD updated:

- Added CATEGORY to key in MEETING_TIME and INSTRUCTIONAL_ASSIGNMENT.
- Changed join between STUDENT_COURSE and MEETING_TIME to INSTRUCTIONAL_ASSIGNMENT and MEETING_TIME.

ERD updated:

- Added CATEGORY to key in INSTRUCTIONAL_ASSIGNMENT.

Faculty Subset

Fixed defect 1-18Z8EPB

BCD updated:

- Added CATEGORY to key in MEETING_TIME and INSTRUCTIONAL_ASSIGNMENT.

Financial Aid Application

Fixes defect 1-1BT5GBI

Cognos Framework Manager model updated:

- Added ID and NAME to Need Analysis Demographic, Need Analysis Federal Method, Need Analysis Inst Method, Need Analysis ISIR Specific, and Need Analysis Profile Specific query subjects.

EUL and Discoverer updated:

- Added ID and NAME to Need Analysis Demographic, Need Analysis Federal Method, Need Analysis Inst Method, Need Analysis ISIR Specific, and Need Analysis Profile Specific query subjects.

Financial Aid Award and Disbursement

Fixes defect 1-14GWKE0

Cognos Framework Manager model updated:

- Join changed from 1..1 = 1..1 to 1..1 = 0..1 between AWARD_BY_PERSON and ACADEMIC_STUDY.

Fixes Enhancement CR-000119975

Cognos Framework Manager model updated:

- Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED.

BCD updated:

- Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED.

ERD updated:

- Removed STUDENT_EXTENDED and ACADEMIC_STUDY_EXTENDED.

Grant and Project

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

General Ledger

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

Human Resource Faculty

Fixes defect 1-18Z8EPB

ERD updated:

Added CATEGORY to key in INSTRUCTIONAL_ASSIGNMENT.

Operating Ledger

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added CHART_ATTRIBUTES.

ERD updated:

- Added CHART_ATTRIBUTES.

Organization Entity

Fixes defect CR-000102314

Cognos Framework Manager model updated:

- Corrected to replace the wording of ALTERNATE_ID with ALTERNATIVE_ID.

BCD updated:

- Corrected to replace the wording of ALTERNATE_ID with ALTERNATIVE_ID.

ERD updated:

- Corrected to replace the wording of ALTERNATE_ID with ALTERNATIVE_ID.

Payroll

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added reporting view PAYROLL_ATTENDANCE join on CALENDAR_YEAR, PAYROLL_IDENTIFIER, PAYROLL_NUMBER, PERSON_UID, POSITION, JOB_SUFFIX, POSITION_BEGIN_DATE, EARNINGS.

ERD updated:

- Added reporting view PAYROLL_ATTENDANCE.

Person Supplemental

Fixes defect 1-1CHQE06

Cognos Framework Manager model updated:

- The following query items are added to Previous Education Slot:
 - PS_AWARD_CATEGORY_1
 - PS_AWARD_CATEGORY_DESC_1
 - PS_AWARD_CATEGORY_2
 - PS_AWARD_CATEGORY_DESC_2
 - PS_AWARD_CATEGORY_3
 - PS_AWARD_CATEGORY_DESC_3

Fixes defect CR-000102314

Cognos Framework Manager model updated:

- Corrected to replace the wording of ALTERNATE_ID with ALTERNATIVE_ID.

BCD updated:

- Corrected to replace the wording of ALTERNATE_ID with ALTERNATIVE_ID.

ERD updated:

- Corrected to replace the wording of ALTERNATE_ID with ALTERNATIVE_ID.

Receivable Revenue

Fixes defect 1-1CUQOQD

Cognos Framework Manager model updated:

- Receivable Accounting is updated with the following fields:
 - DESIGNATOR_DESC
 - DESIGNATOR_TYPE
 - DESIGNATOR_TYPE_DESC
 - A_ACCOUNT_INDEX
 - A_ACCOUNT_INDEX_DESC
 - B_ACCOUNT_INDEX
 - B_ACCOUNT_INDEX_DESC

Fixes defect 1-1AYG87A

Cognos Framework Manager model updated:

The join between Receivable Account Detail and Receivable Accounting has been updated as below:

```
( Receivable Accounting.DESIGNATOR_IND = 'N' and Receivable Account  
Detail.DETAIL_CODE = Receivable Accounting.DETAIL_CODE and Receivable Account  
Detail.TRANSACTION_DATE >= Receivable Accounting.EFFECTIVE_DATE and  
Receivable Account Detail.TRANSACTION_DATE < Receivable  
Accounting.NEXT_CHANGE_DATE )
```

or

```
( Receivable Accounting.DESIGNATOR_IND = 'Y' and Receivable Account  
Detail.DETAIL_CODE = Receivable Accounting.DETAIL_CODE and Receivable Account  
Detail.TRANSACTION_DATE >= Receivable Accounting.EFFECTIVE_DATE and  
Receivable Account Detail.TRANSACTION_DATE < Receivable  
Accounting.NEXT_CHANGE_DATE and Receivable Account  
Detail.OPERATING_DESIGNATOR = Receivable Accounting.DESIGNATOR )
```

Recruitment Information

Fixes defect 1-1CHQE06

Cognos Framework Manager model updated:

- The following query items are added to Previous Education Slot:
 - PS_AWARD_CATEGORY_1
 - PS_AWARD_CATEGORY_DESC_1
 - PS_AWARD_CATEGORY_2
 - PS_AWARD_CATEGORY_DESC_2
 - PS_AWARD_CATEGORY_3
 - PS_AWARD_CATEGORY_DESC_3

Schedule Offering

Fixes defect 1-18Z8EPB

BCD updated:

- Changed join between STUDENT_COURSE and MEETING_TIME to INSTRUCTIONAL_ASSIGNMENT and MEETING_TIME.

ERD updated:

- Added CATEGORY to key in INSTRUCTIONAL_ASSIGNMENT.

Fixes defect 1-1D88DAB

Cognos Framework Manager model updated:

- Added COURSE_TEXT_NARRATIVE to Course Catalog.

Student Detail

Fixes defect CR-000112663 (old RPE 1-CQ3KZP)

BCD updated:

- Added reporting view STUDENT_WORK_EXPERIENCE join on PERSON_UID and ACADEMIC_PERIOD.
- Added reporting view ACADEMIC_HISTORY_EVENT join on PERSON_UID.

ERD updated:

- Added reporting views STUDENT_WORK_EXPERIENCE and ACADEMIC_HISTORY_EVENT.

Fixes defect 1-1CP283S

Package updated:

- Academic History Event added to the Student Detail package joined as optional 1 to 1 on PERSON_UID only.

Fixes defect 1-1DOJJ51

Cognos Framework Manager model updated:

- Updated the join condition including 'COURSE_REFERENCE_NUMBER' between STUDENT_COURSE AND STUDENT_COURSE_ATTRIBUTE.

BCD updated:

- Updated the join condition including 'COURSE_REFERENCE_NUMBER' between STUDENT_COURSE AND STUDENT_COURSE_ATTRIBUTE.

Transaction History

Fixes defect 1-1CUQOQD

Cognos Framework Manager model updated:

- Receivable Accounting is updated with the following fields:
 - DESIGNATOR_DESC
 - DESIGNATOR_TYPE
 - DESIGNATOR_TYPE_DESC
 - A_ACCOUNT_INDEX
 - A_ACCOUNT_INDEX_DESC
 - B_ACCOUNT_INDEX

- B_ACCOUNT_INDEX_DESC

De-supported Object:Access views

The following are lists of the Object:Access views that are not supported. These lists are segregated according to the ODS release that they were first de-supported in.

ODS 8.3

1. AR_AWARD_DETAIL_BY_TERM
2. AR_FINAID_APPLICANT
3. AR_FINAID_STUDENT_SUMMARY
4. AR_TRACKING_REQUIREMENTS

ODS 8.4.1

1. AA_CAMPAIGN_GIVING_BY_ID
2. AA_CONSTITUENT_ORGANIZ_SHARED
3. AA_DESIGNATION_GIVING_BY_ID
4. AA_EXCLUSION
5. AT_APPLICATION_OF_PAYMENTS_CHG
6. AT_APPLICATION_OF_PAYMENTS_PAY

ODS Financial Aid Object:Access views and functions that are not supported:

1. View AR_BUDGET_COMPONENTS
2. View AR_FINAID_APPLICANT
3. Function F_MORE_BUDGET_COMPONENTS (mrkfunc.sql)
4. Function F_GET_BUDCOMP_ROWID (mrkfunc.sql)

ODS Financial Aid Object:Access views that are obsolete:

1. View AR_AWARD_DETAIL_BY_TERM (already obsolete)
2. View AR_FINAID_STUDENT_SUMMARY

ODS 8.5

1. AR_FINAID_STUDENT_SUMMARY
2. AR_USER_DEFINED_FIELDS

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 8.5 Resolutions.pdf) delivered with the release guide.

The information in the pdf 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.