combinations in the context of a data migration project. It interacts with a series of transformation tables that seem to contain migrated financial and accounting data. Here's a summarized functionality of the package based on the technical documentation provided: 1. gl_code_comb_cvr Procedure: • Purpose: Validates GL code combinations by cross-referencing multiple source or staging tables against a central table called XXMX_GL_ACCOUNT_TRANSFORMS. This procedure ensures that only new or missing combinations are added to this central table to maintain consistency and integrity of the GL codes. • **Operation:** Uses a cursor to select unique combinations, employs bulk operations for efficient data handling, and commits the transactions or rolls back if exceptions are encountered. 2. tot_count Procedure: • **Purpose:** Counts the total number of records present in the XXMX_GL_ACCOUNT_TRANSFORMS table that are associated with a given table name. • **Operation:** Performs a simple SQL count operation and returns the total number of rows that match the criteria. 3. acct_combination Procedure: • **Purpose:** Retrieves a set of account combinations from the XXMX_GL_ACCOUNT_TRANSFORMS table, potentially for further processing or validation. • **Operation:** Provides a paginated output via a cursor by skipping a defined number of rows, allowing for a manageable batch of data to be processed at a time. Overall Summary: The xxmx_validate_code_comb_cvr_pkg package is a comprehensive tool designed for validating and managing financial account code combinations during the data migration process in a financial or accounting system. It provides functionalities for inserting new valid GL code combinations into a transformation table, counting the total number of these combinations, and retrieving specific subsets of combinations for further analysis or processing. Error handling is built into each procedure to ensure the robustness of the data migration validation processes. This package is likely to be a crucial component of the data migration and integration phase in an enterprise resource planning (ERP) system implementation or during periodic data refreshes. ## acct_combination Package xxmx_validate_code_comb_cvr_pkg Documentation **Overview** The xxmx_validate_code_comb_cvr_pkg package is designed to validate code combinations against CVR (Code Combination Validation Rules) for different entities during data migration. This package consists of various procedures that manipulate data within tables associated with general ledger code combinations and their transformations. Structure The package contains the following three procedures: 1. gl_code_comb_cvr 2. tot_count 3. acct_combination Procedure: gl_code_comb_cvr This procedure is used to validate the GL code combinations from various transformation tables against the XXMX_GL_ACCOUNT_TRANSFORMS table. The procedure expects a list of transformation tables to be processed as a comma-separated string. **Parameters** p_xfm_tbl: The name(s) of the transformation table(s) as a comma-separated string. x_status: The status of execution; returns 'SUCCESS' or an error message. Logic The procedure performs the following steps: Extracts metadata information related to the transformation tables. • Opens a cursor, get_code_comb_cur, that selects data from multiple transformation tables which do not exist in the XXMX_GL_ACCOUNT_TRANSFORMS table. • Bulk collects the selected data and inserts it into the XXMX_GL_ACCOUNT_TRANSFORMS table in batches using a FORALL statement. • Commits the transaction if successful or rolls back and provides an error message if an exception occurs. Exceptions Catches any exceptions that occur and sets the x_status output parameter with the error message. Procedure: tot_count This procedure is used to count the number of entries in the XXMX_GL_ACCOUNT_TRANSFORMS table based on the provided transformation table(s). **Parameters** p_xfm_tb1: The name(s) of the transformation table(s) as a comma-separated string. • x_count: The output count of entries. • x_status: The status of execution; returns 'SUCCESS' or an error message. Logic The procedure simply performs a SELECT count (1) query on the XXMX_GL_ACCOUNT_TRANSFORMS table with filtering based on the provided transformation table(s). **Exceptions** Catches any exceptions that occur and sets the x_status output parameter with the error message. Procedure: acct_combination This procedure is used to retrieve a set of GL code combinations from the XXMX_GL_ACCOUNT_TRANSFORMS table. **Parameters** p_xfm_tb1: The name(s) of the transformation table(s) as a comma-separated string. p_cur: The output ref cursor containing the selected data. • x_status: The status of execution; returns 'SUCCESS' or an error message. • p_var_skip: The number of rows to skip in the result set (used for pagination). Logic The procedure performs the following steps: • Opens the output ref cursor p_cur with a SELECT statement that retrieves GL code combinations from the XXMX_GL_ACCOUNT_TRANSFORMS table, applying the specified p_var_skip offset. • Orders the result by S_NO and fetches the next 800 rows only (hardcoded pagination). **Exceptions** Catches any exceptions that occur, closes the cursor if open, and sets the x_status output parameter with the error message. **Usage Examples** Here are some usage examples for the procedures within this package: Using gl_code_comb_cvr DECLARE x_status varchar2(100); BEGIN xxmx_validate_code_comb_cvr_pkg.gl_code_comb_cvr(p_xfm_tbl => 'XXMX_GL_OPENING_BALANCES_XFM', x_status => x_status); DBMS_OUTPUT.put_line('Status: ' || x_status); END; Using tot_count x_count number; x_status varchar2(100); xxmx_validate_code_comb_cvr_pkg.tot_count(p_xfm_tbl => 'XXMX_GL_OPENING_BALANCES_XFM', x_count => x_count, x_status => x_status); IF $x_status = 'SUCCESS'$ THEN DBMS_OUTPUT.put_line('Total Count: ' || x_count); DBMS_OUTPUT.put_line('Error: ' || x_status); END IF; END; Using acct_combination **DECLARE** p_cur sys_refcursor; x_status varchar2(100); xxmx_validate_code_comb_cvr_pkg.acct_combination(p_xfm_tbl => 'XXMX_GL_OPENING_BALANCES_XFM', p_cur => p_cur, x_status => x_status, p_var_skip => 0); -- Process the cursor CLOSE p_cur; END; Additional Information The package relies on specific naming and type conventions for its variables and parameters, which improves code readability and maintainability. It employs bulk operations for efficiency and uses exception handling to manage errors. Proper usage of this package requires understanding of the underlying database schema and the purpose of each procedure within the context of the application's data migration processes. ## tot_count XXMX_VALIDATE_CODE_COMB_CVR_PKG Technical Documentation Introduction This documentation provides an in-depth technical description of the xxmx_validate_code_comb_cvr_pkg package which is part of a larger software application. The purpose of this package is to validate code combinations against CVR (Chart of Accounts Validation Rules) for all entities during data migration. This package contains three procedures: q1_code_comb_cvr, tot_count, and acct_combination. **Package Specification** The package specification defines the interface to the package. It declares the procedures that can be called externally. **Procedures** gl_code_comb_cvr This procedure validates GL code combinations and populates them into a transformation table. **Parameters:** • p_xfm_tbl: IN parameter of type VARCHAR2, representing the transformation table. x_status: OUT parameter of type VARCHAR2, representing the status of execution. tot_count This procedure counts the total number of new or invalid code combinations from the transformation table. **Parameters:** p_xfm_tbl: IN parameter of type VARCHAR2. x_count: OUT parameter of type NUMBER. x_status: OUT parameter of type VARCHAR2. acct_combination This procedure returns a cursor to the caller with the account combinations. **Parameters:** • p_xfm_tbl: IN parameter of type VARCHAR2. • p_cur: OUT parameter of type SYS_REFCURSOR. • x_status: OUT parameter of type VARCHAR2. • p_var_skip: IN parameter of type NUMBER, representing the offset to skip rows for pagination. **Package Body** The package body contains the implementation logic for the procedures declared in the package specification. Procedure gl_code_comb_cvr The gl_code_comb_cvr procedure is the core procedure for validating GL code combinations. It uses a cursor get_code_comb_cur to select distinct code combinations from various staging tables (transformations tables) such as xxmx_gl_opening_balances_xfm, xxmx_gl_summary_balances_xfm, xxmx_gl_historical_rates_xfm, and others. It checks if the selected combinations exist in the XXMX_GL_ACCOUNT_TRANSFORMS table and if not, it inserts them into the XXMX_GL_ACCOUNT_TRANSFORMS as new records. The procedure uses bulk collect and FORALL to insert data, optimizing performance for large data sets. It captures the migration metadata before opening the cursor and uses exception handling to manage errors during execution. Procedure tot_count The tot_count procedure counts the number of records in the XXMX_GL_ACCOUNT_TRANSFORMS table for the specified transformation table(s). It outputs the count through the x_count parameter and captures any SQL errors during its execution. Procedure acct_combination The acct_combination procedure opens a cursor that selects account combinations from the XXMX_GL_ACCOUNT_TRANSFORMS table where the status is 'NEW' or 'Invalid'. It supports pagination through the p_var_skip parameter and handles any errors during cursor operations. **Error Handling**

Each procedure within the package includes an EXCEPTION block that handles errors using the OTHERS handler. It provides a standardized error message using the SQL built-in functions SQLERRM

• The package makes use of the xxmx_utilities_pkg.gcn_bulkcollectlimit constant which is not defined in the given code but is expected to be declared in the xxmx_utilities_pkg.

The xxmx_validate_code_comb_cvr_pkq package provides a robust mechanism for validating and managing GL code combinations during data migration. Through efficient cursor operations,

and SQLCODE.

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Package Specification

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Parameters:

3. acct combination

Package Body

gl_code_comb_cvr

The source tables include:

XXMX_GL_ACCOUNT_TRANSFORMS table.

XXMX_GL_OPENING_BALANCES_XFMXXMX_GL_SUMMARY_BALANCES_XFMXXMX_GL_HISTORICAL_RATES_XFM

XXMX_SCM_PO_DISTRIBUTIONS_STD_XFM
XXMX_AP_SUPP_SITE_ASSIGNS_XFM
XXMX_FA_MASS_ADDITIONS_XFM
XXMX_PPM_PRJ_LBRCOST_XFM
XXMX_PPM_PRJ_MISCCOST_XFM
XXMX_FA_MASS_ADDITION_DIST_XFM
XXMX_PER_ASSIGNMENTS_M_XFM

occurs, x_status is set to contain the error details.

A table type based on the get_code_comb_cur%rowtype.

An exception raised when there is an error during the loading of migration metadata.

1. V_APPLICATION_SUITE - Stores the application suite name.

3. V_BUSINESS_ENTITY - Stores the business entity name.

2. V_APPLICATION - Stores the application name.

4. V_SUB_ENTITY - Stores the sub-entity name.

for efficient processing and error handling mechanisms.

No constants are explicitly declared in the package body, but comments indicate a section for constant declarations.

• To validate GL code combinations, call the procedure gl_code_comb_cvr with the appropriate table name.

• To count the records in the XXMX_GL_ACCOUNT_TRANSFORMS table, call tot_count.

Errors encountered are reported back through the x_status output parameter for each procedure.

• To fetch a subset of account combinations, call acct_combination.

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acct_combination

get_code_comb_cur

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Parameters:

• gl_code_comb_cvr: Populates new account combinations into the transformation table.

acct_combination: Provides account combinations to the caller for further processing.

3. Execute acct_combination to retrieve specific account combinations for further operations.

This package is designed to validate code combinations against CVR for various entities during data migration.

Each procedure commits changes to the database upon successful execution and rolls back changes if an error occurs.

bulk data processing, and comprehensive error handling, this package ensures the integrity and consistency of GL code combinations in the system.

Description: This procedure validates GL code combinations by inserting non-existent records into the XXMX_GL_ACCOUNT_TRANSFORMS table.

• Description: This procedure counts the total number of records in the XXMX_GL_ACCOUNT_TRANSFORMS table based on the provided table name.

This is the main procedure of the package. It opens a cursor get_code_comb_cur that selects records from different source tables and checks for their existence in the

The procedure then performs a BULK COLLECT fetch with a limit defined by the xxmx_utilities_pkg.gcn_bulkcollectlimit constant and inserts new records into

This procedure simply counts the number of records in the XXMX_GL_ACCOUNT_TRANSFORMS table that match the provided table name (p_xfm_tb1) and returns the count via x_count. If an error

This procedure fetches account combinations from the XXMX_GL_ACCOUNT_TRANSFORMS table based on the provided table name (p_xfm_tbl). It opens a cursor and returns a result set limited to 800

The xxmx_validate_code_comb_cvr_pkg package provides a set of procedures to support the validation of GL code combinations against CVR during data migration. It features bulk operations

A cursor defined to retrieve GL code combination records from various transformation tables. It uses several subqueries with UNION to gather records from different source tables.

• Description: This procedure fetches a subset of account combinations from the XXMX_GL_ACCOUNT_TRANSFORMS table based on the provided table name and the number of rows to skip.

• tot count: Retrieves the count of new or invalid combinations.

The package is designed to be used in the following sequence:

2. Use tot_count to get the total count of combinations.

1. Call gl_code_comb_cvr to validate and populate account combinations.

xxmx_validate_code_comb_cvr_pkg

The package specification xxmx_validate_code_comb_cvr_pkg defines three procedures:

p_xfm_tb1 IN varchar2 - The name of the table to validate.
 x_status OUT varchar2 - The status of the execution.

x_count OUT number - The count of records.

• x_status OUT varchar2 - The status of the execution.

p_cur OUT sys_refcursor - A ref cursor for the result set.
 x_status OUT varchar2 - The status of the execution.

XXMX_GL_ACCOUNT_TRANSFORMS. It uses the FORALL statement for efficient bulk insert operations.

If an exception occurs, the procedure closes the cursor if it is open, performs a ROLLBACK, and sets the x_status accordingly.

rows starting after a number of rows defined by p_var_skip. If an exception occurs, it closes the cursor if open and sets the x_status.

• p_var_skip IN number - The number of rows to skip in the result set.

p_xfm_tbl IN varchar2 - The name of the table to retrieve the count for.

• p_xfm_tbl IN varchar2 - The name of the table for which to fetch account combinations.

The xxmx_validate_code_comb_cvr_pkg package appears to be a utility tool used within an Oracle database environment, particularly for validating and managing General Ledger (GL) code