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CTL DB2 Direct Update Overview

Table PPPTOT defines the tables that can be processed by the new PPP004, and entries on that table control some processing logic such as sort keys or report formats. With this release, additional CTL tables have been converted to direct DB2 update.

The high level sort key for the transaction file is by Table ID. Within a table, the action codes are translated so that the transactions are in Comment, Delete, Add, and Change order. List actions are processed immediately and not passed to the transaction handlers.

The error and warning messages for all tables are written to DD WRNPRT. The table listing is written to a specific DD. This release has added the following table listing DD’s, where the final two digits refer to the table number.

- DD PPP0401
- DD PPP0402
- DD PPP0403
- DD PPP0405
- DD PPP0410
- DD PPP0412
- DD PPP0415
- DD PPP0416

A Run Specification Record is required to perform updates, but is not required for requesting report listing. Transaction editing and update can be controlled in three ways via the Run Specification Record:

PPP01-SPECNO UPDATE Requests a transaction edit; no update or table list will occur.

PPP01-SPECNO ERRORS Requests a transaction edit and update, but the update only if no transactions are rejected. Table listings are provided for any updated table.

PPP01-SPECUPDATE Requests a transaction edit and update by accepted transactions. Table listings are provided for any updated table.
Load VSAM CTL (RUN150)

Load the VSAM CTL.

**Verification**

Confirm the job ran to successful completion.

Load DB2 Control Database (LOADCTL)

Load the DB2 CTL. The Table of Tables (PPPTOT) only contains tables converted prior to this release.

**Verification**

Confirm the job ran to successful completion.

Run PPP854 Transaction Split (RUN854A)

PPP854 reads the Table of Tables and decides whether to send transactions to PPP010 or PPP004 processing. The transaction file contains transactions tables 01, 02, 03, 05, 10, 12, 15, 16 and 25.

**Verification**

Confirm via the PPP8541 report that all the TRANSACTIONS READ IN were reported as TRANSACTIONS WRITTEN FOR VSAM PROCESSING. The TRANSACTIONS WRITTEN FOR DB2 PROCESSING should be zero.
Add Table of Tables Entries (LOADTOT)

Use a RESUME function to add rows for Tables 01, 02, 03, 05, 10, 12, 15 and 16 to the Table of Tables. This will allow PPP004 to update these tables, and conversely PPP851 will no longer be able to update these tables.

NOTE: JCL(LOADTOT2) has also been provided which loads the entire Base PPPTOT table. This is appropriate only if all the other CTL update conversion releases have been installed.

Verification

Confirm the job ran to successful completion.

The SPUFI listing shows the Table of Tables. Confirm there is a row for Tables 01, 02, 03, 05, 10, 12, 15 and 16.
Control Table Update Conversion
Test Plan
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**Control Table Update (RUN854B)**

PPP854 reads the Table of Tables and decides whether to send transactions to PPP010 or PPP004 processing. The transaction file contains transactions for all the tables which have now been added to the Table of Tables. It also contains transactions for Table 25 which was not added to the PPPTOT table.

This test updates the following tables:
- Table 01 System Parameters Table
- Table 02 Gross-to-Net Table
- Table 03 Federal Tax Table
- Table 05 System Calendar Table
- Table 10 Description of Service Table
- Table 12 California Tax Table
- Table 15 Report Description Table
- Table 16 Earned Income Credit Table
- Table 25 Leave Accrual Table

**Verification**

**PPP854**
Confirm via the audit report PPP8541 that the total number of transactions read in and written out matches the input files.

Confirm that the two Table 25 transactions were written for VSAM processing to DD CTLVSAMO.

Confirm that all the other transactions were written for DB2 processing to DD CTLDB2O.

**PPP004**

All the newly converted tables have delete, add and change transactions; some are rejected, some are accepted. Confirm the various test results in the audit report PPP0400 (DD WRNPRT) are duplicated in the local test.

Confirm that each table’s report is issued to the appropriate DD, and that the results reflect the accepted/rejected results in the audit report.

**System Parameter Table**

Note that there are always 369 rows on the PPPPRM table, regardless of whether or not the number currently has a value. All unused numbers below 300 are reserved for Base
use; all unused numbers equal to or above 300 are reserved for campus use. Since all the rows exist on the table, the following logic is used to identify “available” rows for Add, Delete and Change actions.

A System Parameter must have a Description of “Reserved-Base” or “Campus-Available” in order to allow an Add function. Any other description value will be interpreted as “existing” and the Add will be rejected. Conversely, the Description must not be “Reserved-Base” or “Campus-Available” in order to allow Delete and Change functions. Those description values will be interpreted as “not existing” and the delete or Change will be rejected. Successful Delete functions will not actually delete the row. The value will be set to zero and the Description set to either “Reserved-Base” or “Campus-Available” depending on whether the number is below 300 or not.

Local descriptions on the System Parameter Table should be checked for consistency with this logic.

Gross-to-Net Table
The Table 02 entry on the Table of Tables provides for three possible report formats. As released, the three codes in TOT_REPORT_CODES are PGB. The first code represents the default value; the others can be encoded on list requests. P=Priority Order, G=GTN order, and B=Both, i.e. both reports will be printed. If a different default is wanted locally simply rearrange the codes so that the desired format code is in the first position.

A consistency edit module PPCTC08 is provided with this release, and is triggered by successful updates of the PPPGTN table along with PPCTC01 (see TOT_CON_EDITS). Other consistency edit modules that have been released have not updated any tables. This one does. PPCTC08 edits for matched GTN’s (see GTN_MATCH_ELEMENT) such as the matched Medical deductions and contributions. If one partner is missing from a matched pair, PPCTC08 will delete the other. Note that this update falls with the normal ROLLBACK logic, i.e. a NO UPDATE run of PPP004 will trigger a ROLLBACK and any deletions performed by PPCTC08 will be nullified.

Calendar Table
PPP010 previously created the report in two digit year order, so 2000 came first, then through 2003, then 1985, etc. PPCTR05 sorts the table in four digit year descending order, so 2003 comes first and 1985 last. The default report format code ‘A’ is for all years on the Calendar Table to be printed. The ‘Y’ report format code requests that only the most recent year be printed. Again, the default can be changed locally by switching the two codes in TOT_REPORT_CODES from AY to YA.

Earned Income Credit Table
PPP851 previously created a row on the DB2 PPPEIC table with a Marital Status code of ‘E’ for each of the three periods. This row is not loaded by the EIC utility PPEICUTL, and is not needed. The converted update process does not create the ‘E’ rows.

PPP010
Confirm via the PPP0100 and PPP0125 reports (both written to DD PPP0199) that Table 25 was updated and that the Leave Accrual Table was printed.

PPP851
Confirm via the PPP8511 report that the Leave Accrual Tables (PPPLAT and PPPLAF are still updated by PPP851.
Consistency Edits (PPCB02)

PPCB02 used to be a called routine from PPP010. It is now a standalone program which should run after PPP004 and PPP010/PPP851 have been completed. As a standalone it is no longer triggered by table update flags set by PPP010; it processes regardless of what tables have been updated by either PPP010 or PPP004. It only processes DB2 table data; the VSAM CTL is not read.

Verification

Confirm that the consistency report PPP0198 (DD PPP0198) was written, and that it shows that various JGD, BUT/GTN, LRT and LAT table consistency edits were performed. Note that message 01-566 is issued regarding the Table 25 update transaction results.