



March 20, 2007

State of North Dakota

Table Validation

Version 8.0



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| Table of Contents | |
| What is Table Validation | 3 |
| Field Names and Definitions | 5 |
| Select Option..... | 5 |
| Run Option..... | 6 |
| ID Option | 6 |
| From ID..... | 6 |
| Detail Options | 6 |
| Q & A's..... | 11 |



March 20, 2007

What is Table Validation

Table Validation is a powerful tool that enables users to report on and correct referential integrity errors within Student Financial tables. These errors can occur as a result of:

1. set-up errors
2. changes to setup after data is partially processed
3. or modified programs that insert or update SF tables

Table Validation looks at the following tables:

1. PAYMENT_TBL
 - a. Looks at all credit transactions (payments, financial aid, waivers)
 - b. Holds application information (current date, transaction term, charge priority, other item type setup information)
2. ITEM_SF
 - a. Looks at all charge information
 - b. Item balance maintained on table (amount remaining on a payment)
 - c. Applied amount (amount of a charge paid by a payment)
3. ITEM_LINE_SF
 - a. Identifies split transactions (multiple payments paying one charge, multiple charges)
 - b. Looks at lowest level of detail
 - c. Not reversible or refundable
4. ITEM_XREF
 - a. Effective dated table
 - b. Shows history of application
 - c. Shows item number payment and item number charge
 - d. It correlates to ITEM_SF



March 20, 2007

5. ITEM_DUE_SF
 - a. Looks at Null Due Date
 - b. Used in billing determination
 - c. Can be ignored during cleanup activity

6. ACCOUNT_SF
 - a. Roll up of ITEM_SF (account per term, no term accounting)
 - b. Excess amount (move to excess, move from exces)
 - c. Account Term vs. Item Term

7. STDNT_DISB_AWD
 - a. Table from FA not SF
 - b. Holds current FA award data
 - c. Reasons why FA should not be adjusted in SF
 - d. Must agree with PAYMENT_TBL



March 20, 2007

Field Names and Definitions

Table Validation

Run Control ID: [Report Manager](#) [Process Monitor](#) [Run](#)

Select Option: All IDs One ID ID Range

Run Option: Update

Business Unit:

ID Option: Individual Only ID:

Detail Options:

| | | |
|---|--|--|
| <input checked="" type="checkbox"/> Student Account Balance | <input checked="" type="checkbox"/> Applied Amount | <input checked="" type="checkbox"/> Cross Reference Effective Date |
| <input type="checkbox"/> Corporation Account Balance | <input checked="" type="checkbox"/> Balance Amount | <input checked="" type="checkbox"/> Cross Reference Payment ID |
| <input checked="" type="checkbox"/> Item Amount | <input checked="" type="checkbox"/> Cross Reference CommonID Table | <input checked="" type="checkbox"/> Cross Reference Contract Nbr |
| <input checked="" type="checkbox"/> Payment Amount | <input checked="" type="checkbox"/> Cross Reference CommonID Field | |
| <input checked="" type="checkbox"/> Refund Amount | <input checked="" type="checkbox"/> Cross Reference Item Amount | |

Item Due Info: Item Due Date Initial Run

Commit Option: Commit At the End Commit Level

Select Option

All IDs

Select this option to run the process against all accounts in the system. If Individual and Organization is selected as the ID Option, All IDs is the required Select Option.

NOTE** You will only run this in report mode only to identify students that need to be fixed by leaving the Update box **UNCHECKED.**

One ID

Select this option to run the process against a single individual or corporate account. You would run this to individually fix an account in update mode.

ID Range

Select this option to process a range of either individual or corporate accounts.



March 20, 2007

Run Option

Update to Y (checking the box)

Select this check box to correct data errors when they are detected. Clear this check box to produce reports **ONLY**. If you select this check box, the process still produces reports.

ID Option

Individual and Organization: Select this option to process all accounts in the system. If you select this option, the Select Option is limited to All IDs and the Start and End fields are hidden.

Individual Only: Select this option to process only individual accounts. If you select this option, all Select Options are available.

Organization Only: Select this option to process only external organization accounts. If you select this option, all Select Options are available.

From ID

This field is available when ID Range is selected as the Select Option and the label is associated with the appropriate ID Option selection.

Detail Options

In the Detail Options group box, select the reports or updates that you want to process. If the Update Run Option has not been selected, the process produces a report that identifies referential data integrity discrepancies, but does not change any data. If you select the Update Run Option, discrepancies are corrected as indicated in each description.

Student Account Balance

Select this option to compare the account balance from the ACCOUNT_SF table with the sum of the item amounts from the ITEM_SF table. If the amounts are different, the system uses the sum of the item amounts to update the account balance.

Corporation Account Balance

Select this option to compare the account balance from the ACCOUNT_ORG_SF table with the



March 20, 2007

sum of the item amounts from the ITEM_SF table. If the amounts are different, the system uses the sum of the item amounts to update the account balance.

Item Amount

Select this option to compare the item amount from the ITEM_SF table with the sum of the line amounts from the ITEM_LINE_SF table. If the amounts are different, the system uses the sum of the line amounts to update the item amount.

Payment Amount

Select this option to compare the payment amounts from the PAYMENT_TBL table with the sum of the item amounts for each payment from the ITEM_SF table. If the amounts are different, the system uses the sum of the item amounts to update the payment amount.

Refund Amount

Select this option to compare the refund amount from the REFUND_HDR table with the item amount from the ITEM_SF table. If the amounts are different, the system uses the item amount to update the refund amount.

Applied Amount

Select this option to compare the sum of the cross reference amounts from the ITEM_XREF table with the applied amount from the ITEM_SF table. If the amounts are different, the system uses the cross reference amount to update the Applied Amount.

Balance Amount

Select this option to compare the sum of the cross reference amount from the ITEM_XREF table with the net value of the item amount, minus the item balance from the ITEM_SF table. If the amounts are different, the system subtracts the sum of the cross reference amount from the item amount and uses the result to update the item balance.

Cross Reference CommonID Table

Select the Cross Reference CommonID Table check box and run the process.
The report performs the following cross checks:

For every student with an account that is defined in ACCOUNT_SF and for every organization with an account that is defined in ACCOUNT_ORG_SF, the report verifies that a row exists in the SF_COMMON_ID table. If a row does not exist in the SF_COMMON_ID table, and you run the



March 20, 2007

report in update mode, the system inserts a row for the student or organization ID into SF_COMMON_ID.

For every person or organization, the report verifies for each COMMON_ID that the maximum item number that is recorded in the ITEM_SF table matches the field ITEM_NBR_LAST stored in the SF_COMMON_ID table. When you run the report in update mode, if the ITEM_NBR_LAST in the SF_COMMON_ID table does not match the highest ITEM_NBR for a given student or organization in ITEM_SF, the program updates the field ITEM_NBR_LAST to match the highest ITEM_NBR in ITEM_SF for that student or organization.

For every person or organization, the report verifies for each COMMON_ID that the maximum payment ID number recorded in the PAYMENT_TBL matches the field PAYMENT_ID_LAST stored in the SF_COMMON_ID table. When you run the report in update mode, if the PAYMENT_ID_LAST in the SF_COMMON_ID table does not match the highest PAYMENT_ID_NBR for a given student or organization in PAYMENT_TBL, the program updates the field PAYMENT_ID_LAST to match the highest PAYMENT_ID_NBR in PAYMENT_TBL for that student or organization.

The report lists any discrepancies found.

NOTE* Due to its intensive table analysis of the core SF transaction tables and possible updates to SF_COMMON_ID, it is recommended that you run the Cross Reference CommonID Table report in update mode only on a limited basis and only while it has exclusive access to the system. **Do not run other Student Financials processes while this report is running.**

Cross Reference CommonID Field

Select the Cross Reference CommonID Field check box and run the process.

The report cross checks COMMON_ID and SA_ID_TYPE against the fields EMPLID and EXT_ORG_ID in the following tables:

ITEM_SF

ITEM_LINE_SF

ITEM_XREF



March 20, 2007

PAYMENT_TBL

ITEM_DUE_SF

For each table, the system reports errors when the following conditions occur:

Both EMPLID and EXT_ORG_ID are populated.

Neither EMPLID nor EXT_ORG_ID are populated.

The SF_COMMON_ID.SA_ID_TYPE = P (person) and the EMPLID has a value that is not the same value in COMMON_ID.

The SF_COMMON_ID.SA_ID_TYPE = O (organization) and the EXT_ORG_ID has a value that is not the same value in COMMON_ID.

Note. Even if you run the report in update mode, the system does not update the EMPLID, EXT_ORG_ID, COMMON_ID and SA_ID_TYPE fields to prevent an inadvertent change to these ID fields. You must identify the correct values and make a manual correction in all relevant tables.

Cross Reference Item Amount - this is the really big thing you want to review

Select this option to compare the sum of the cross reference amounts from the ITEM_XREF table with the Item Amount from the ITEM_SF table. If the item amount is less than the sum, the values in the ITEM_XREF table are set to zero and the errors are reported. To correct the errors, the payments must be backed out and then reapplied. Each payment can be backed out manually or by running the Applied Amount and Balance Amount reports after running this report. Exception: If the item is linked to a contract, the system does not set the values in the ITEM_XREF table to zero. To correct the errors, the contracts must be cancelled, the update process must be run again to zero the ITEM_XREF values, and the contracts must be reapplied.

Cross Reference Effective Date

Select this option to find any missing effective dates in the ITEM_XREF table to the item effective date in the ITEM_SF table. If dates are missing, the system uses the item effective date



March 20, 2007

from ITEM_SF to update the effective date.

Cross Reference Payment ID

Select this option to find any missing payment ID numbers from the ITEM_XREF table with the payment ID number from the ITEM_SF table. If the numbers are different, the system uses the payment ID number from ITEM_SF to update the payment ID number in ITEM_XREF.

Cross Reference Contract Nbr (cross reference contract number)

Select this option to validate the contract number in the ITEM_XREF table. If the item number contract is populated, but the contract number is blank, the system uses the contract number from the TP_STUDENT table to update the ITEM_XREF table.

Item Due Info

Item Due Date

Select this option to find due date discrepancies on the ITEM_DUE_SF table. The program compares this due date with the due date from the ITEM_LINE_SF table. If the dates are different, the system uses the due date from ITEM_LINE_SF to calculate the appropriate value and update the ITEM_DUE_SF due date. Example why you would select this field would be, if the student's account is at zero balance, and yet on the items due hyperlink shows a transaction and a service indicators is being applied automatically because the transaction is in this table, you can select this Item Due Date check box and the program will sync up the ITEM_DUE_SF table with ITEM_LINE_SF. This has happened at a couple of campuses and checking this field does fix the problem.

Initial Run

Select this option in conjunction with the Item Due Date option to delete all due date values from the ITEM_DUE_SF table prior to recalculating them. This option only has an effect if the report is run in update mode.

Note. The Item Due Date and Initial Run fields must always be considered together.

Commit At the End

Select this option to commit changes only at the end of processing.

Note: This option applies only to the Item Due Date option.

Commit Level



March 20, 2007

Select this option to specify a commit level. When you select this option, you are required to specify a value in the box that appears to the right. The program commits changes to the table after each 100 IDs have been processed.

Note. This option applies only to the Item Due Date option.

Q & A's

QUESTION: Why do we have this process?

ANSWER: The Table Validation report can report and/or clear up any issues with referential integrity within Student Financials tables. As an example, and using a very simplified scenario, it will identify an issue in which the sum of rows on ITEM_SF do not agree with the amount on the row corresponding to the payment on PAYMENT_TBL. Similarly, it will do so with all other tables in Student Financials in which referential integrity must be maintained.

QUESTION: Why do these problems with referential integrity occur, and why doesn't PeopleSoft clear them up?

ANSWER: Since Student Admin 8 SP1, we have not found any instances in which the posting routines will corrupt data through normal use. There are, however, situations in which the customer's setup or use of the application can cause these errors to occur, and the Table Validation SQR is designed to identify and clear up the end result of such problems. If a customer can identify a problem that occurs during any posting process, please bring it to the attention of the Global Support Center, even if the SQR will clear up the problem.

QUESTION: So what kinds of problems are identified in this report?

ANSWER: The SQR will report and/or fix the following issues:

Accounts where the item amounts are not equal to the account balance for EMPLIDS
Accounts where the item amounts are not equal to the account balance for ORG accounts.



March 20, 2007

Items where the line amounts are not equal to the item amount
Payments where the item amounts are not equal to the payment amount.
Refunds where the item amounts are not equal to the refund amount.
Xref rows that vary from applied amounts for payments.
Xref rows that vary from Item Amount less the Item Balance for charges.
Third party xref rows where the contract number is blank.
Instances in which the Common ID on any SF table is not present on the Common ID table
Xref rows that exceed the Item Amount
Xref rows with NULL effective dates.
Payments where the detail is not equal to the payment.
Reviews Item lines and determines Item due dates, with an option to rebuild the item due table for a given student

QUESTION: So how do I use this report, and how often?

ANSWER: You should use this report whenever you see trouble with the student's account, such as those identified above, or in general, whenever a panel showing SF information does not agree with another panel showing other SF information for the same emplid. Some analysts refer to this as being "wacky" information, which may be a little more descriptive. Depending on your operating conditions, you may wish to run this report on a periodic basis as part of your batch scheduling. The frequency of running the report is just a site decision, and some schools do run this on a nightly basis.