

GL Transaction Details with Year-end Simulation and Pyramid Process

(Includes How to generate the Opening Balances)

SEI Templates
Functional Specification

Version Number: 2.0
Document Created: 13-Jun-2013 14:00:00
Document Updated: 08-Jul-2014 14:00:00
Created by: Tangerine Software Inc.

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1 Revision history

Date	Who	Description
2013/06/28	Johann Salas	Document creation
2013/07/10	Saman Samy Sarem	Addition of usage section and specifics for year-end simulation
2013/07/08	Edgardo Mejia	Document Update

2 Business need

The General Ledger Transaction Details process provides with useful fields to manipulate data around the account's transactions. Statistics such as the GL Transaction Detail containing the amounts of each account code per fiscal year and period, more information can be extracted from the Sage ERP X3 databases using this process.

Analyzing data aimed for a year-end can be difficult depending on how the year closure is organized. For example, when exploiting data for the first periods of a New Year, the last year may not have been closed yet, resulting in inaccurate values for the opening balances of the New Year.

The year-end simulation feature of the GL Transaction Details with Year-end Simulation process allows to simulate opening balances for all accounts as if all the previous years were closed, without affecting the data inside of the Sage ERP X3 tables. In the end, it provides accurate data to compare several years and generate financial documents.

3 Constraints & restrictions

- This process is only compatible with Sage ERP X3 V6 and V7.
- Views associated to the process must be created prior installation.
- New prompts associated to the process must be created prior installation.

4 Technical specification

4.1 Involved tables/views

Element	Alias	Type
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Fact Table (View)
COMPANY	COMPANY	Table
FACILITY	FACILITY	Table
GACCOUNT	GACCOUNT	Table
BPARTNER	BPARTNER	Table
ZTABCHANGE	ZTABCHANGE	Table
AEXTRA	AEXTRA	Table
AEXTRA	AEXTRA_1	Table
AEXTRA	AEXTRA_2	Table
AEXTRA	AEXTRA_3	Table
AEXTRA	AEXTRA_4	Table
AEXTRA	AEXTRA_5	Table
AEXTRA	AEXTRA_6	Table
AEXTRA	AEXTRA_7	Table

AEXTRA	AEXTRA_8	Table
APLSTD	APLSTD	Table
AEXTRA	AEXTRA_9	Table
AEXTRA	AEXTRA_10	Table
AEXTRA	AEXTRA_11	Table
AEXTRA	AEXTRA_12	Table
AEXTRA	AEXTRA_13	Table
AEXTRA	AEXTRA_14	Table
AEXTRA	AEXTRA_15	Table
AEXTRA	AEXTRA_16	Table
ACCPYM_VIEW	ACCPYM_VIEW	View

The View GL_TX_WITH_OB is based on the GL transaction tables, this view gets the amounts for period 0 (opening balances) from the year-end simulation tables.

4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	COMPANY	COMPANY	GL_TX_WITH_OB_VIEW.CPY_0 = COMPANY.CPY_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	FACILITY	FACILITY	GL_TX_WITH_OB_VIEW.FCYLIN_0 = FACILITY.FCY_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	GACCOUNT	GACCOUNT	GL_TX_WITH_OB_VIEW.ACC_0 = GACCOUNT.ACC_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	BPARTNER	BPARTNER	GL_TX_WITH_OB_VIEW.COA_0 = BPARTNER.COA_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	ZTABCHANGE	ZTABCHANGE	GL_TX_WITH_OB_VIEW.OFFACC_0 = ZTABCHANGE.BPRNUM_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA	GL_TX_WITH_OB_VIEW.ACCDAT_0 = AEXTRA.DATE_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_1	GL_TX_WITH_OB_VIEW.CUR_0 = AEXTRA_1.CUR_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_2	GL_TX_WITH_OB_VIEW.CCE_0 = AEXTRA_2.IDENT2_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_3	GL_TX_WITH_OB_VIEW.DIE_0 = AEXTRA_3.IDENT1_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_4	GL_TX_WITH_OB_VIEW.CCE_1 = AEXTRA_4.IDENT2_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_5	GL_TX_WITH_OB_VIEW.DIE_1 = AEXTRA_5.IDENT1_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_6	GL_TX_WITH_OB_VIEW.CCE_2 = AEXTRA_6.IDENT2_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_7	GL_TX_WITH_OB_VIEW.DIE_2 = AEXTRA_7.IDENT1_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_8	GL_TX_WITH_OB_VIEW.DIE_3 = AEXTRA_8.IDENT1_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	APLSTD	APLSTD	GL_TX_WITH_OB_VIEW.CCE_3 = APLSTD.IDENT2_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_14	GL_TX_WITH_OB_VIEW.CCE_4 = AEXTRA_14.IDENT2_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_15	GL_TX_WITH_OB_VIEW.DIE_4 = AEXTRA_15.IDENT1_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	AEXTRA	AEXTRA_16	GL_TX_WITH_OB_VIEW.DIE_5 = AEXTRA_16.IDENT1_0
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	Left	ACCPYM_VIEW	ACCPYM_VIEW	GL_TX_WITH_OB_VIEW.CCE_5 = ACCPYM_VIEW.IDENT2_0
ACCPYM_VIEW	ACCPYM_VIEW	Left	AEXTRA	AEXTRA_12	ACCPYM_VIEW.CCE_6 = AEXTRA_12.IDENT2_0
ACCPYM_VIEW	ACCPYM_VIEW	Left	AEXTRA	AEXTRA_13	ACCPYM_VIEW.DIE_6 = AEXTRA_13.IDENT1_0
ACCPYM_VIEW	ACCPYM_VIEW	Left	AEXTRA	AEXTRA_11	ACCPYM_VIEW.CCE_7 = AEXTRA_11.IDENT2_0
ACCPYM_VIEW	ACCPYM_VIEW	Left	AEXTRA	AEXTRA_10	ACCPYM_VIEW.DIE_7 = AEXTRA_10.IDENT1_0
ACCPYM_VIEW	ACCPYM_VIEW	Left	AEXTRA	AEXTRA_9	ACCPYM_VIEW.DIE_8 = AEXTRA_9.IDENT1_0

4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
AEXTRA	CODFIC_0	Equal	'CACCE'
AEXTRA	ZONE_0	Equal	'DESTRA'
AEXTRA	LANGUE_0	Equal	@CurrentLang;
AEXTRA_1	CODFIC_0	Equal	'CACCE'
AEXTRA_1	ZONE_0	Equal	'DESTRA'
AEXTRA_1	LANGUE_0	Equal	@CurrentLang;
AEXTRA_2	CODFIC_0	Equal	'CACCE'
AEXTRA_2	ZONE_0	Equal	'DESTRA'
AEXTRA_2	LANGUE_0	Equal	@CurrentLang;
AEXTRA_3	CODFIC_0	Equal	'CACCE'
AEXTRA_3	ZONE_0	Equal	'DESTRA'
AEXTRA_3	LANGUE_0	Equal	@CurrentLang;
AEXTRA_4	CODFIC_0	Equal	'CACCE'
AEXTRA_4	ZONE_0	Equal	'DESTRA'
AEXTRA_4	LANGUE_0	Equal	@CurrentLang;
AEXTRA_5	CODFIC_0	Equal	'CACCE'
AEXTRA_5	ZONE_0	Equal	'DESTRA'
AEXTRA_5	LANGUE_0	Equal	@CurrentLang;
AEXTRA_6	CODFIC_0	Equal	'CACCE'
AEXTRA_6	ZONE_0	Equal	'DESTRA'
AEXTRA_6	LANGUE_0	Equal	@CurrentLang;
AEXTRA_7	CODFIC_0	Equal	'CACCE'
AEXTRA_7	ZONE_0	Equal	'DESTRA'
AEXTRA_7	LANGUE_0	Equal	@CurrentLang;
AEXTRA_8	CODFIC_0	Equal	'CACCE'
AEXTRA_8	ZONE_0	Equal	'DESTRA'
AEXTRA_8	LANGUE_0	Equal	@CurrentLang;
APLSTD	LANCHP_0	Equal	2644
APLSTD	LANNUM_0	Greater than	0
APLSTD	LAN_0	Equal	@CurrentLang;
AEXTRA_14	CODFIC_0	Equal	'GCOA'
AEXTRA_14	ZONE_0	Equal	'DESTRA'
AEXTRA_14	LANGUE_0	Equal	@CurrentLang;
AEXTRA_15	CODFIC_0	Equal	'GLED'
AEXTRA_15	ZONE_0	Equal	'DESTRA'
AEXTRA_15	LANGUE_0	Equal	@CurrentLang;
AEXTRA_16	CODFIC_0	Equal	'GACCOUNT'
AEXTRA_16	ZONE_0	Equal	'DESTRA'
AEXTRA_16	LANGUE_0	Equal	@CurrentLang;
AEXTRA_12	CODFIC_0	Equal	'GACCGRUPYM'
AEXTRA_12	ZONE_0	Equal	'DESTRA'
AEXTRA_12	LANGUE_0	Equal	@CurrentLang;
AEXTRA_13	CODFIC_0	Equal	'GACCGRUPYM'
AEXTRA_13	ZONE_0	Equal	'DESTRA'
AEXTRA_13	LANGUE_0	Equal	@CurrentLang;
AEXTRA_11	CODFIC_0	Equal	'GACCGRUPYM'
AEXTRA_11	ZONE_0	Equal	'DESTRA'
AEXTRA_11	LANGUE_0	Equal	@CurrentLang;
AEXTRA_10	CODFIC_0	Equal	'GACCGRUPYM'
AEXTRA_10	ZONE_0	Equal	'DESTRA'
AEXTRA_10	LANGUE_0	Equal	@CurrentLang;
AEXTRA_9	CODFIC_0	Equal	'GACCGRUPYM'

AEXTRA_9	ZONE_0	Equal	'DESTRA'
AEXTRA_9	LANGUE_0	Equal	@CurrentLang;

4.4 Fields

Table	Alias	Field	Description	Type	Prompt
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	LED_TYP_0	Ledger Type Code	Dimension	Yes
APLSTD	APLSTD	LANMES_0	Ledger Type Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	LED_0	Ledger Code	Dimension	Yes
AEXTRA	AEXTRA_15	TEXTE_0	Ledger Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	COA_0	Chart of acct. Code	Dimension	Yes
AEXTRA	AEXTRA_14	TEXTE_0	Chart of acct. Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CPY_0	Company Code	Dimension	Yes
COMPANY	COMPANY	CPYNAM_0	Company Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	FIY_0	Fiscal Year	Dimension	Yes
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	PER_0	Fiscal Period	Dimension	Yes
*SERVER	*SERVER	FLD0000007	Quarter	Dimension	Yes
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	OFFACC_0	Partner Code	Dimension	Yes
BPARTNER	BPARTNER	BPRNAM_0	Partner Description	Description	No
ACCPYM_VIEW	ACCPYM_VIEW	PYM_0	Account Pyramid	Dimension	Yes
ACCPYM_VIEW	ACCPYM_VIEW	Level1	Pyramid Lev 1	Dimension	Yes
AEXTRA	AEXTRA_9	TEXTE_0	Pyramid Lev 1 Desc.	Description	No
ACCPYM_VIEW	ACCPYM_VIEW	Level2	Pyramid Lev 2	Dimension	Yes
AEXTRA	AEXTRA_10	TEXTE_0	Pyramid Lev 2 Desc.	Description	No
ACCPYM_VIEW	ACCPYM_VIEW	Level3	Pyramid Lev 3	Dimension	Yes
AEXTRA	AEXTRA_11	TEXTE_0	Pyramid Lev 3 Desc.	Description	No
ACCPYM_VIEW	ACCPYM_VIEW	Level4	Pyramid Lev 4	Dimension	No
AEXTRA	AEXTRA_12	TEXTE_0	Pyramid Lev 4 Desc.	Description	No
ACCPYM_VIEW	ACCPYM_VIEW	Level5	Pyramid Lev 5	Dimension	Yes
AEXTRA	AEXTRA_13	TEXTE_0	Pyramid Lev 5 Desc.	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	ACC_0	Account Code	Dimension	Yes
AEXTRA	AEXTRA_16	TEXTE_0	Account Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	NUM_0	Document Number	Dimension	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	DES_0	Document Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	FCYLIN_0	Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Site Description	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_0	Analytical Dim 1	Dimension	Yes
AEXTRA	AEXTRA	TEXTE_0	Analytical Dim 1 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_1	Analytical Dim2	Dimension	Yes
AEXTRA	AEXTRA_1	TEXTE_0	Analytical Dim 2 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_2	Analytical Dim 3	Dimension	Yes
AEXTRA	AEXTRA_2	TEXTE_0	Analytical Dim 3 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_3	Analytical Dim 4	Dimension	Yes
AEXTRA	AEXTRA_3	TEXTE_0	Analytical Dim 4 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_4	Analytical Dim 5	Dimension	Yes
AEXTRA	AEXTRA_4	TEXTE_0	Analytical Dim 5 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_5	Analytical Dim 6	Dimension	Yes
AEXTRA	AEXTRA_5	TEXTE_0	Analytical Dim 6 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_6	Analytical Dim 7	Dimension	Yes
AEXTRA	AEXTRA_6	TEXTE_0	Analytical Dim 7 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_7	Analytical Dim 8	Dimension	Yes
AEXTRA	AEXTRA_7	TEXTE_0	Analytical Dim 8 Desc	Description	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CCE_8	Analytical Dim 9	Dimension	Yes
AEXTRA	AEXTRA_8	TEXTE_0	Analytical Dim 9 Desc	Description	No
*SERVER	*SERVER	FLD0000013	Reporting Code 1	Dimension	No

GACCOUNT	GACCOUNT	RPTCODDEB_0	Reporting Debit Code 1	Dimension	No
GACCOUNT	GACCOUNT	RPTCODDEB_1	Reporting Debit Code 2	Dimension	No
GACCOUNT	GACCOUNT	RPTCODDEB_2	Reporting Debit Code 3	Dimension	No
GACCOUNT	GACCOUNT	RPTCODDEB_3	Reporting Debit Code 4	Dimension	No
GACCOUNT	GACCOUNT	RPTCODCDT_0	Reporting Credit Code 1	Dimension	No
GACCOUNT	GACCOUNT	RPTCODCDT_1	Reporting Credit Code 2	Dimension	No
GACCOUNT	GACCOUNT	RPTCODCDT_2	Reporting Credit Code 3	Dimension	No
GACCOUNT	GACCOUNT	RPTCODCDT_3	Reporting Credit Code 4	Dimension	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	TYP_0	Document type	Dimension	Yes
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	ACCDAT_0	Accounting Date	Dimension	No
*SERVER	*SERVER	FLD0000008	Accounting Date (Alpha)	Dimension	No
COMPANY	COMPANY	ACCCUR_0	Ledger Currency	Dimension	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CUR_0	Transaction Currency	Dimension	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	DEBLED_0	Ledger Debit	Measure	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CDTLED_0	Ledger Credit	Measure	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	PSTLED_0	Ledger Posting	Measure	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	DEBCUR_0	Transaction Debit	Measure	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CDTCUR_0	Transaction Credit	Measure	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	PSTCUR_0	Transaction Posting	Measure	No
GL_TX_WITH_OB_VIEW	GL_TX_WITH_OB_VIEW	CAT_0	Journal Category	Dimension	No
*SERVER	*SERVER	FLD0000003	Global Debit	Measure Calculated	No
*SERVER	*SERVER	FLD0000002	Global Credit	Measure Calculated	No
*SERVER	*SERVER	FLD0000001	Global Posting	Measure Calculated	No

4.5 SQL Views

List of required views for this process:

- GL_TX_WITH_OB
- ACCPYM_VIEW

For detailed information about the views, please refer to the provided installation script

4.6 Prompts

List of required prompts for this process:

Name
Ledger Type
Ledger
Chart Of Account
Company
Fiscal Year
Fiscal Period
Quarter
Partner
Account Pyramid
Pyramid Level 1
Pyramid Level 2
Pyramid Level 3
Pyramid Level 5
GL Account
Facility (Site)
Financial Statistical Group 1

Financial Statistical Group 2
Financial Statistical Group 3
Financial Statistical Group 4
Financial Statistical Group 5
Financial Statistical Group 6
Financial Statistical Group 7
Financial Statistical Group 8
Financial Statistical Group 9
Document Type

4.7 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000007	Quarter	Dimension	Yes	(CASE when GL_TX_WITH_OB_VIEW.PER_0 In(1,2,3) THEN 'Q1' WHEN GL_TX_WITH_OB_VIEW.PER_0 In(4,5,6) THEN 'Q2' WHEN GL_TX_WITH_OB_VIEW.PER_0 In(7,8,9) THEN 'Q3' WHEN GL_TX_WITH_OB_VIEW.PER_0 In(10,11,12) THEN 'Q4' END)
FLD0000013	Reporting Code 1	Dimension	No	Case When GACCOUNT.RPTCODDEB_0 <> " then GACCOUNT.RPTCODDEB_0 else GACCOUNT.RPTCODCDT_0 End
FLD0000008	Accounting Date (Alpha)	Dimension	No	Cast(GL_TX_WITH_OB_VIEW.ACCDAT_0 AS Varchar(12))
FLD0000003	Global Debit	Measure Calculated	No	GL_TX_WITH_OB_VIEW.DEBCUR_0*ZTABCHANGE.RAT_0
FLD0000002	Global Credit	Measure Calculated	No	GL_TX_WITH_OB_VIEW.CDTCUR_0*ZTABCHANGE.RAT_0
FLD0000001	Global Posting	Measure Calculated	No	GL_TX_WITH_OB_VIEW.PSTCUR_0*ZTABCHANGE.RAT_0

4.8 Notes:

Quantity fields in this process must be handled with caution. They have been summed up in order to appear in grouped lines; however, the values will only be significant if the sums are done on the same units.

When working with data in a multi-company and/or multi-currency data environment, some fine tuning is necessary. The fields containing prices and other numbers that are related to a particular currency are gathered as they are entered at the transaction level. Adjustments may be needed to compare different currencies, such as applying rates to bring all data to the same currency.

5 How to generate the Opening Balances

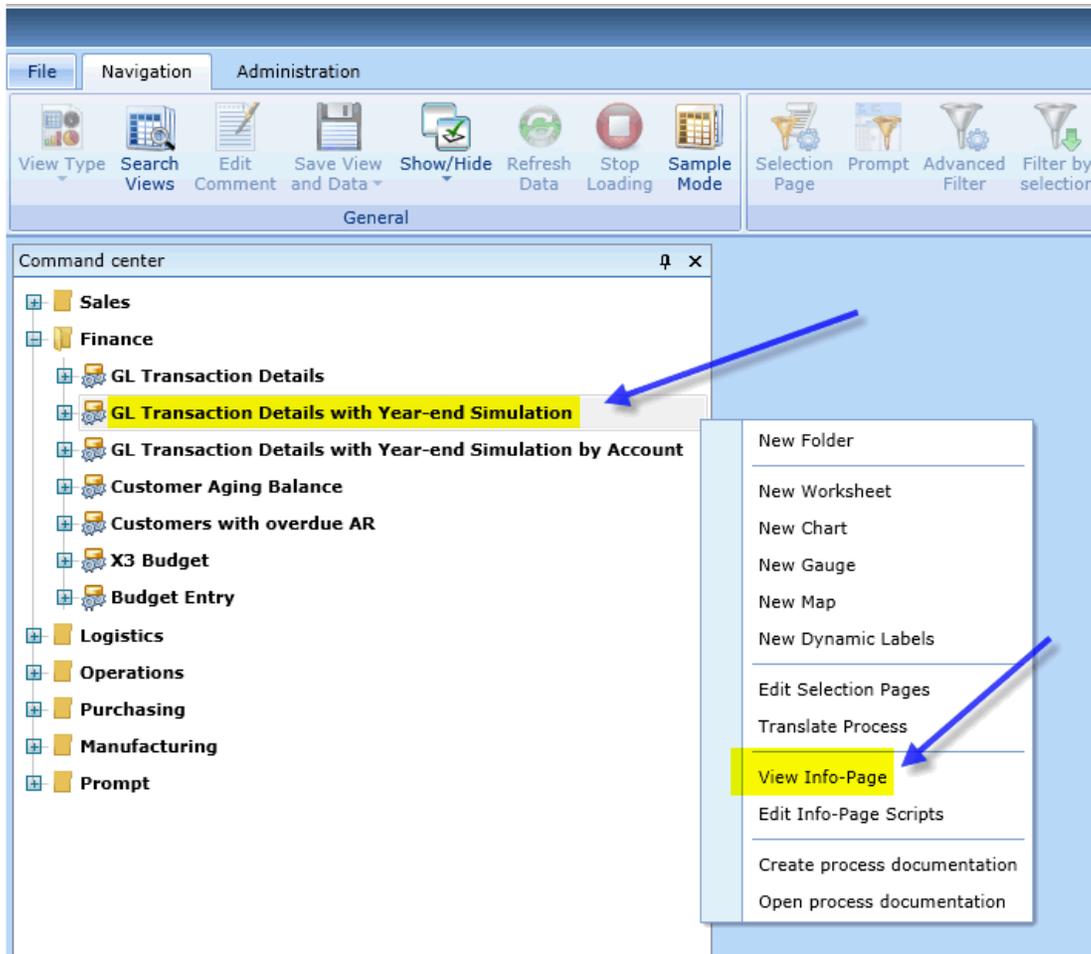
This section provides the reader all the information needed to execute the Year-end procedure to calculate the new fiscal year opening balances in SEI. These opening balances are used by the GL Transaction Details with Year-End Simulation process.

5.1 Execute the Opening Balance script

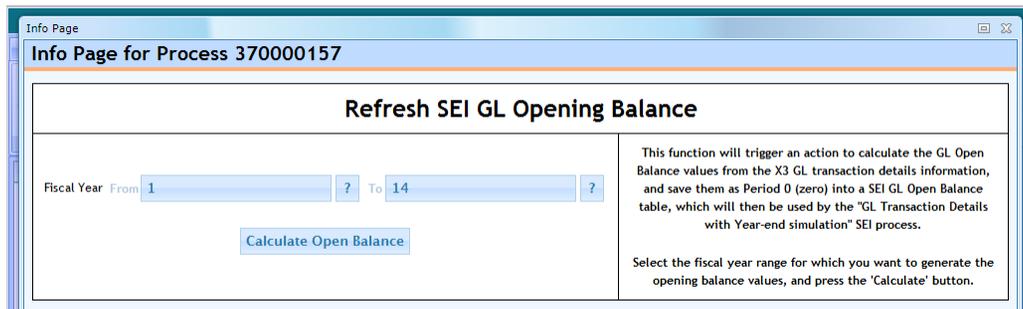
Log into your SEI 6 Web Client and look for the GL Transaction Details with Year-End Simulation SEI process (normally located in the Finance folder).

- Right-click on the process, and select **View Info-Page**.

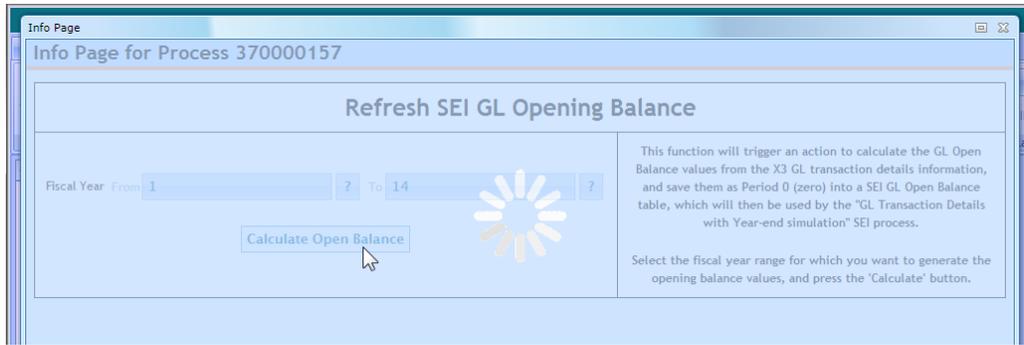
The image below illustrates the steps.



The Info-page will display.



If you are running this script for the first time, you can decide to run it for all the existing Fiscal Years in your system. See example above example from Fiscal year 1 to 14. Note that in this case, this may take some time and resource. It is recommended to execute it at the end of the day or off business hours. When you are ready to start the calculation, press the **Calculate Open Balance** button.



The Info-Page will be displaying a showing paler background color until the script execution is completed. Once it's back to the regular color, you can close the Info-Page, and use the GL Transaction Details with Year End-Simulation process. For that year you calculated. The Opening balance values will appear in the Period Zero ("0").

Thereafter later on, if fiscal year 13 was still open, and you recently just closed it, you will want to refresh the opening balances for the fiscal year 14. Just select from-to the same year, like in the below example, from 14 to 14.

