

Purchasing Orders Process

SEI Templates Functional Specification

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1 Revision history

Date	Who	Description
2013/06/03	Johann Salas	Document creation
2013/07/09	Edgardo Mejia	Document Update

2 Business need

The Purchasing Orders process provides with useful fields to manipulate data around the Purchasing Orders transactions placed by employees. Statistics such as the orders by product, supplier and Order vs Returns among other purchase transactions can be extracted from the Sage ERP X3 databases using this process.

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
PORDERP	PORDERP	Fact Table
PORDERQ	PORDERQ	Table
BPSUPPLIER	BPSUPPLIER	Table
BPSCATEG	BPSCATEG	Table
PORDER	PORDER	Table
FACILITY	FACILITY	Table
BPCARRIER	BPCARRIER	Table
BPARTNER	BPARTNER	Table
COMPANY	COMPANY	Table
TABPAYTERM	TABPAYTERM	Table
ITMMASTER	ITMMASTER	Table
ZNECPORDPRTN	ZNECPORDPRTN	View
ZTABCHANGE	ZTABCHANGE	Table
ATEXTRA	ATEXTRA	Table
ATEXTRA	ATEXTRA_1	Table
ATEXTRA	ATEXTRA_2	Table
ATEXTRA	ATEXTRA_3	Table
ATEXTRA	ATEXTRA_4	Table
ATEXTRA	ATEXTRA_5	Table
ATEXTRA	ATEXTRA_6	Table
ATEXTRA	ATEXTRA_7	Table

AEXTRA	AEXTRA_8	Table
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4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
PORDERP	PORDERP	Left	PORDERQ	PORDERQ	PORDERP.POHNUM_0 = PORDERQ.POHNUM_0
PORDERQ	PORDERQ	Left	BPSUPPLIER	BPSUPPLIER	PORDERQ.POPLIN_0 = BPSUPPLIER.POPLIN_0
BPSUPPLIER	BPSUPPLIER	Left	BPSCATEG	BPSCATEG	BPSUPPLIER.POPSEQ_0 = BPSCATEG.POQSEQ_0
PORDERP	PORDERP	Left	PORDER	PORDER	PORDERP.BPSNUM_0 = PORDER.BPSNUM_0
PORDER	PORDER	Left	FACILITY	FACILITY	PORDER.BSGCOD_0 = FACILITY.BSGCOD_0
PORDER	PORDER	Left	BPCARRIER	BPCARRIER	PORDER.POHNUM_0 = BPCARRIER.POHNUM_0
PORDER	PORDER	Left	BPARTNER	BPARTNER	PORDER.POHFCY_0 = BPARTNER.FCY_0
PORDER	PORDER	Left	TABPAYTERM	TABPAYTERM	PORDER.BPTNUM_0 = TABPAYTERM.BPTNUM_0
PORDER	PORDER	Left	ZTABCHANGE	ZTABCHANGE	PORDER.BPRPAY_0 = ZTABCHANGE.BPRNUM_0
PORDER	PORDER	Left	AEXTRA	AEXTRA_8	PORDER.PTE_0 = AEXTRA_8.PTE_0
PORDERP	PORDERP	Left	ITMMASTER	ITMMASTER	PORDERP.ORDDAT_0 = ITMMASTER.DATE_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA	ITMMASTER.CUR_0 = AEXTRA.CUR_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_1	ITMMASTER.CHGTYP_0 = AEXTRA_1.CHGTYP_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_2	ITMMASTER.CUR_0 = AEXTRA_2.IDENT1_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_3	ITMMASTER.ITMREF_0 = AEXTRA_3.ITMREF_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_4	ITMMASTER.TSICOD_0 = AEXTRA_4.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_5	ITMMASTER.TSICOD_1 = AEXTRA_5.IDENT2_0
ITMMASTER	ITMMASTER	Left	AEXTRA	AEXTRA_6	ITMMASTER.TSICOD_2 = AEXTRA_6.IDENT2_0
PORDERP	PORDERP	Left	ZNECPORDPRTN	ZNECPORDPRTN	PORDERP.TSICOD_3 = ZNECPORDPRTN.IDENT2_0
PORDERP	PORDERP	Left	AEXTRA	AEXTRA_7	PORDERP.TSICOD_4 = AEXTRA_7.IDENT2_0
PORDERP	PORDERP	Left	COMPANY	COMPANY	PORDERP.TCLCOD_0 = COMPANY.IDENT1_0

4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
AEXTRA_8	CODFIC_0	Equal	'TABCUR'
AEXTRA_8	ZONE_0	Equal	'INTDES'
AEXTRA_8	LANGUE_0	Equal	@CurrentLang;
AEXTRA	CODFIC_0	Equal	'ATABDIV'
AEXTRA	ZONE_0	Equal	'LNGDES'
AEXTRA	LANGUE_0	Equal	@CurrentLang;

AEXTRA	IDENT1_0	Equal	'20'
AEXTRA_1	CODFIC_0	Equal	'ATABDIV'
AEXTRA_1	ZONE_0	Equal	'LNGDES'
AEXTRA_1	LANGUE_0	Equal	@CurrentLang;
AEXTRA_1	IDENT1_0	Equal	'21'
AEXTRA_2	CODFIC_0	Equal	'ATABDIV'
AEXTRA_2	ZONE_0	Equal	'LNGDES'
AEXTRA_2	LANGUE_0	Equal	@CurrentLang;
AEXTRA_2	IDENT1_0	Equal	'22'
AEXTRA_3	CODFIC_0	Equal	'ATABDIV'
AEXTRA_3	ZONE_0	Equal	'LNGDES'
AEXTRA_3	IDENT1_0	Equal	'23'
AEXTRA_3	LANGUE_0	Equal	@CurrentLang;
AEXTRA_4	CODFIC_0	Equal	'ATABDIV'
AEXTRA_4	ZONE_0	Equal	'LNGDES'
AEXTRA_4	LANGUE_0	Equal	@CurrentLang;
AEXTRA_4	IDENT1_0	Equal	'24'
AEXTRA_5	CODFIC_0	Equal	'ITMCATEG'
AEXTRA_5	ZONE_0	Equal	'TCLAXX'
AEXTRA_5	LANGUE_0	Equal	@CurrentLang;
AEXTRA_6	CODFIC_0	Equal	'ITMMASTER'
AEXTRA_6	ZONE_0	Equal	'DES1AXX'
AEXTRA_6	LANGUE_0	Equal	@CurrentLang;
AEXTRA_7	CODFIC_0	Equal	'AUTILIS'
AEXTRA_7	ZONE_0	Equal	'INTUSR'
AEXTRA_7	LANGUE_0	Equal	@CurrentLang;

4.4 Fields

Table	Alias	Field	Description	Type	Prompt
PORDER	PORDER	CPY_0	Company Code	Dimension	Yes
COMPANY	COMPANY	CPYNAM_0	Company Description	Description	No
*SERVER	*SERVER	FLD0000001	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000002	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000003	Day	Dimension	No
PORDERQ	PORDERQ	ORDDAT_0	Date Order	Dimension	No
ZNECPORDPRTN	ZNECPORDPRTN	RTNDAT_0	Date Return	Dimension	No
PORDERQ	PORDERQ	DEMRCPDAT_0	Date Requested Delivery	Dimension	No
PORDERQ	PORDERQ	EXTRCPDAT_0	Date Expected Receipt	Dimension	No
PORDERP	PORDERP	POHNUM_0	Number	Dimension	Yes
PORDERQ	PORDERQ	BPSNUM_0	Supplier Code	Dimension	Yes
BPSUPPLIER	BPSUPPLIER	BPSNAM_0	Supplier Name	Description	No
BPSUPPLIER	BPSUPPLIER	BSGCOD_0	Supplier Category Code	Dimension	Yes
BPSCATEG	BPSCATEG	BSGDES_0	Supplier Category Desc.	Description	No
PORDER	PORDER	BPTNUM_0	Carrier Code	Dimension	Yes
BPCARRIER	BPCARRIER	BPTNAM_0	Carrier Description	Description	No
PORDER	PORDER	POHFCY_0	Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Site Description	Description	No
BPARTNER	BPARTNER	CRY_0	Country	Dimension	No
PORDER	PORDER	ORDREF_0	Internal or Order Reference	Dimension	No
PORDER	PORDER	PTE_0	Payment Terms Code	Dimension	No
TABPAYTERM	TABPAYTERM	PTELIN_0	Payment Terms Description	Description	No

PORDER	PORDER	BPRPAY_0	Pay-to Code	Dimension	Yes
BPARTNER	BPARTNER	BPRNAM_0	Pay-to Name	Description	No
PORDERP	PORDERP	LINBUY_0	Buyer Code	Dimension	Yes
AEXTRA	AEXTRA_7	TEXTE_0	Buyer Name	Description	No
PORDER	PORDER	APPFLG_0	Signed	Dimension	No
PORDER	PORDER	CLEFLG_0	Closed	Dimension	No
PORDER	PORDER	RCPFLG_0	Received	Dimension	No
PORDER	PORDER	INVFLG_0	Invoiced	Dimension	No
PORDER	PORDER	PRNFLG_0	Printed	Dimension	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Category Code	Dimension	Yes
AEXTRA	AEXTRA_5	TEXTE_0	Product Category Description	Description	No
PORDERP	PORDERP	ITMREF_0	Product Code	Dimension	Yes
AEXTRA	AEXTRA_6	TEXTE_0	Product Description	Description	No
ITMMASTER	ITMMASTER	TSICOD_0	Product Stats. Group 1 Code	Dimension	Yes
AEXTRA	AEXTRA	TEXTE_0	Product Stats. Group 1 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_1	Product Stats. Group 2 Code	Dimension	Yes
AEXTRA	AEXTRA_1	TEXTE_0	Product Stats. Group 2 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_2	Product Stats. Group 3 Code	Dimension	Yes
AEXTRA	AEXTRA_2	TEXTE_0	Product Stats. Group 3 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_3	Product Stats. Group 4 Code	Dimension	Yes
AEXTRA	AEXTRA_3	TEXTE_0	Product Stats. Group 4 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_4	Product Stats. Group 5 Code	Dimension	Yes
AEXTRA	AEXTRA_4	TEXTE_0	Product Stats. Group 5 Desc.	Description	No
PORDER	PORDER	CUR_0	Currency Code	Dimension	No
AEXTRA	AEXTRA_8	TEXTE_0	Currency Description	Description	No
PORDERP	PORDERP	POPLIN_0	Line Number	Dimension	No
PORDERQ	PORDERQ	STU_0	Stock unit	Dimension	No
PORDERQ	PORDERQ	UOM_0	Order Unit	Dimension	No
PORDERQ	PORDERQ	PUU_0	Purchase Unit	Dimension	No
*SERVER	*SERVER	FLD0000005	Days to Deliver	Measure Calculated	No
PORDERQ	PORDERQ	QTYUOM_0	Quantity Ordered	Measure	No
PORDERQ	PORDERQ	QTYPUU_0	Quantity PUR	Measure	No
PORDERQ	PORDERQ	QTYSTU_0	Quantity STK	Measure	No
ZNECPORDPRTN	ZNECPORDPRTN	QTY_RTN	Quantity Returned	Measure	No
PORDERP	PORDERP	GROPRI_0	Price Gross	Measure	No
PORDERP	PORDERP	NETPRI_0	Price Net	Measure	No
PORDERQ	PORDERQ	QTYWEU_0	Weight	Measure	No
PORDERQ	PORDERQ	QTYVOU_0	Volume	Measure	No
PORDERQ	PORDERQ	UOMPUUCOE_0	STK-PUR Conversion	Measure	No
PORDERQ	PORDERQ	LINAMT_0	Total Line Amount -Tax	Measure	No
PORDER	PORDER	TOTLINWEU_0	Total Line Weight	Measure	No
PORDER	PORDER	TOTLINVOU_0	Total Line Volume	Measure	No
PORDER	PORDER	TOTTAXAMT_0	Total Tax	Measure	No
ZNECPORDPRTN	ZNECPORDPRTN	TOTAL	Total Returned	Measure	No
*SERVER	*SERVER	FLD0000004	% of Return	Measure Calculated	No
*SERVER	*SERVER	FLD0000009	Price Global Gross	Measure Calculated	No
*SERVER	*SERVER	FLD0000008	Price Global Net	Measure Calculated	No
*SERVER	*SERVER	FLD0000010	Total Global Line Amount -Tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000007	Total Global Tax	Measure Calculated	No
*SERVER	*SERVER	FLD0000006	Total Global Returned	Measure Calculated	No

4.5 Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000001	Year	Dimension	Yes	Year(PORDERQ.ORDDAT_0)
FLD0000002	Month	Dimension	Yes	Month(PORDERQ.ORDDAT_0)
FLD0000003	Day	Dimension	No	Day(PORDERQ.ORDDAT_0)
FLD0000005	Days to Deliver	Measure Calculated	No	Case PORDERQ.DEMRCPDAT_0 when '1753-01-01' then - 1 else Datediff(day,PORDERQ.ORDDAT_0,PORDERQ.DEMRCPDAT_0) end
FLD0000004	% of Return	Measure Calculated	No	ZNECPORDPRTN.QTY_RTN / PORDERQ.QTYUOM_0
FLD0000009	Price Global Gross	Measure Calculated	No	PORDERP.GROPRI_0*ZTABCHANGE.RAT_0
FLD0000008	Price Global Net	Measure Calculated	No	ZTABCHANGE.RAT_0*PORDERP.NETPRI_0
FLD0000010	Total Global Line Amount - Tax	Measure Calculated	No	ZTABCHANGE.RAT_0*PORDERQ.LINAMT_0
FLD0000007	Total Global Tax	Measure Calculated	No	ZTABCHANGE.RAT_0*PORDER.TOTTAXAMT_0
FLD0000006	Total Global Returned	Measure Calculated	No	ZTABCHANGE.RAT_0*ZNECPORDPRTN.TOTAL

4.6 SQL Views

List of required views for this process:

- ZNECPORDPRTN

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

4.7 Prompts

List of required prompts for this process:

Name
Company
Year
Month
P_Orders
Supplier Name
Supplier Category
Carrier
Facility (Site)
bppartner
Buyer
Product Category
Item
Product Statistical Group 1
Product Statistical Group 2
Product Statistical Group 3
Product Statistical Group 4
Product Statistical Group 5

4.8 Recommended Links

Purchasing Orders can be linked to the following processes:

- Returns Process with the field POHNUM.
- Product Process with the field ITMREF.
- Business Partner with the field BPRPAY.

4.9 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.