Work Order Detail Process

SEI Templates
Functional Specification

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1   Revision history

Date	Who	Description
2013/06/21	**Johann Salas**	**Document creation**
2013/07/09	**Edgardo Mejia**	**Document Update**

2   Business need

The Work Order Detail process provides useful fields to manipulate data around the Work Orders transactions placed by employees. Statistics such as the work orders tracking route containing the quantity, operation status and run time, among other work order transactions that 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
MFGHEAD	MFGHEAD	Fact Table
MFGITM	MFGITM	Table
ITMMASTER	ITMMASTER	Table
BPARTNER	BPARTNER	Table
MFGOPE	MFGOPE	Table
FACILITY	FACILITY	Table
APLSTD	APLSTD	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
APLSTD	APLSTD_1	Table
APLSTD	APLSTD_2	Table

4.2 Joins between tables

From Table Name	From Table Alias	Type of Join	Linked Table	Linked Alias	Join
MFGHEAD	MFGHEAD	Left	MFGITM	MFGITM	MFGHEAD.MFGNUM_0 = MFGITM.MFGNUM_0
MFGITM	MFGITM	Left	ITMMASTER	ITMMASTER	MFGITM.ITMREF_0 = ITMMASTER.ITMREF_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA	ITMMASTER.ITMREF_0 = ATEXTRA.IDENT1_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_1	ITMMASTER.TCLCOD_0 = ATEXTRA_1.IDENT1_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_2	ITMMASTER.TSICOD_0 = ATEXTRA_2.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_3	ITMMASTER.TSICOD_1 = ATEXTRA_3.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_4	ITMMASTER.TSICOD_2 = ATEXTRA_4.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_5	ITMMASTER.TSICOD_3 = ATEXTRA_5.IDENT2_0
ITMMASTER	ITMMASTER	Left	ATEXTRA	ATEXTRA_6	ITMMASTER.TSICOD_4 = ATEXTRA_6.IDENT2_0
MFGITM	MFGITM	Left	BPARTNER	BPARTNER	MFGITM.BPCNUM_0 = BPARTNER.BPRNUM_0
MFGHEAD	MFGHEAD	Left	MFGOPE	MFGOPE	MFGHEAD.MFGNUM_0 = MFGOPE.MFGNUM_0
MFGOPE	MFGOPE	Left	APLSTD	APLSTD_1	MFGOPE.OPESTA_0 = APLSTD_1.LANNUM_0
MFGOPE	MFGOPE	Left	APLSTD	APLSTD_2	MFGOPE.TIMUOMCOD_0 = APLSTD_2.LANNUM_0
MFGHEAD	MFGHEAD	Left	FACILITY	FACILITY	MFGHEAD.MFGFCY_0 = FACILITY.FCY_0
MFGHEAD	MFGHEAD	Left	APLSTD	APLSTD	MFGHEAD.MFGSTA_0 = APLSTD.LANNUM_0

4.3 Specific Joins

Linked Alias	Linked Field	Operator	Specific Value
ATEXTRA	CODFIC_0	Equal	'ITMMASTER'
ATEXTRA	ZONE_0	Equal	'DES1AXX'
ATEXTRA	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_1	CODFIC_0	Equal	'ITMCATEG'
ATEXTRA_1	ZONE_0	Equal	'TCLAXX'
ATEXTRA_1	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_2	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_2	ZONE_0	Equal	'LNGDES'
ATEXTRA_2	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_2	IDENT1_0	Equal	'20'
ATEXTRA_3	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_3	ZONE_0	Equal	'LNGDES'
ATEXTRA_3	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_3	IDENT1_0	Equal	'21'
ATEXTRA_4	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_4	ZONE_0	Equal	'LNGDES'
ATEXTRA_4	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_4	IDENT1_0	Equal	'22'
ATEXTRA_5	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_5	ZONE_0	Equal	'LNGDES'
ATEXTRA_5	IDENT1_0	Equal	'23'
ATEXTRA_5	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_6	CODFIC_0	Equal	'ATABDIV'
ATEXTRA_6	ZONE_0	Equal	'LNGDES'
ATEXTRA_6	LANGUE_0	Equal	@CurrentLang;
ATEXTRA_6	IDENT1_0	Equal	'24'
APLSTD_1	LANCHP_0	Equal	308
APLSTD_1	LANNUM_0	Greaterthan	0
APLSTD_1	LAN_0	Equal	@CurrentLang;
APLSTD_2	LANCHP_0	Equal	301

APLSTD_2	LANNUM_0	Greaterthan	0
APLSTD_2	LAN_0	Equal	@CurrentLang;
APLSTD	LANCHP_0	Equal	317
APLSTD	LANNUM_0	Greaterthan	0
APLSTD	LAN_0	Equal	@CurrentLang;

4.4   Fields

Table	Alias	Field	Description	Type	Prompt
*SERVER	*SERVER	FLD0000001	Year	Dimension	Yes
*SERVER	*SERVER	FLD0000002	Month	Dimension	Yes
*SERVER	*SERVER	FLD0000003	Day	Dimension	No
MFGOPE	MFGOPE	OPESTR_0	Operation Start date	Dimension	No
MFGOPE	MFGOPE	OPEEND_0	Operation End date	Dimension	No
MFGHEAD	MFGHEAD	MFGNUM_0	Order Number	Dimension	Yes
MFGITM	MFGITM	MFGDES_0	Description	Description	No
MFGOPE	MFGOPE	OPENUM_0	Operation Number	Dimension	No
MFGOPE	MFGOPE	ROODES_0	Operation Description	Description	No
MFGOPE	MFGOPE	EXTWST_0	Operation Work Center	Dimension	Yes
MFGOPE	MFGOPE	OPESTA_0	Operation Status Code	Dimension	Yes
APLSTD	APLSTD_1	LANMES_0	Operation Status Desc.	Description	No
MFGOPE	MFGOPE	TIMUOMCOD_0	Operation Time Unit Code	Dimension	Yes
APLSTD	APLSTD_2	LANMES_0	Operation Time Unit Desc.	Description	No
MFGHEAD	MFGHEAD	MFGSTA_0	Status Code	Dimension	Yes
APLSTD	APLSTD	LANMES_0	Status Description	Description	No
MFGHEAD	MFGHEAD	MFGFCY_0	Site Code	Dimension	Yes
FACILITY	FACILITY	FCYNAM_0	Site Description	Description	No
MFGITM	MFGITM	ITMREF_0	Product Code	Dimension	Yes
ITMMASTER	ITMMASTER	ITMDES1_0	Product Description	Description	No
ATEXTRA	ATEXTRA	TEXTE_0	Product Description	Description	No
ITMMASTER	ITMMASTER	TCLCOD_0	Product Category	Dimension	Yes
ATEXTRA	ATEXTRA_1	TEXTE_0	Product Category Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_0	Product Stats. Group 1	Dimension	Yes
ATEXTRA	ATEXTRA_2	TEXTE_0	Product Stats. Group 1 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_1	Product Stats. Group 2	Dimension	Yes
ATEXTRA	ATEXTRA_3	TEXTE_0	Product Stats. Group 2 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_2	Product Stats. Group 3	Dimension	Yes
ATEXTRA	ATEXTRA_4	TEXTE_0	Product Stats. Group 3 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_3	Product Stats. Group 4	Dimension	Yes
ATEXTRA	ATEXTRA_5	TEXTE_0	Product Stats. Group 4 Desc.	Description	No
ITMMASTER	ITMMASTER	TSICOD_4	Product Stats. Group 5	Dimension	Yes
ATEXTRA	ATEXTRA_6	TEXTE_0	Product Stats. Group 5 Desc.	Description	No
MFGITM	MFGITM	PJT_0	Project	Dimension	No
MFGHEAD	MFGHEAD	ENDDAT_0	Due Date	Dimension	No
MFGITM	MFGITM	BPCNUM_0	Recipient Code	Dimension	No
BPARTNER	BPARTNER	BPRNAM_0	Recipient Description	Measure	No
MFGITM	MFGITM	UOM_0	Release	Measure	No
MFGOPE	MFGOPE	EXTSETTIM_0	Operation Setup Time	Measure	No
MFGOPE	MFGOPE	EXTOPETIM_0	Operation Run Time	Measure	No
MFGHEAD	MFGHEAD	STU_0	Stock unit	Dimension	No
MFGITM	MFGITM	UOMEXTQTY_0	Quantity Release Qty	Measure	No
MFGHEAD	MFGHEAD	EXTQTY_0	Quantity Planned	Measure	No
MFGHEAD	MFGHEAD	CPLQTY_0	Quantity Total Actual	Measure	No

MFGHEAD	MFGHEAD	REJCPLQTY_0	Quantity Actual Rejected	Measure	No
MFGHEAD	MFGHEAD	QUACPLQTY_0	Quantity Actual QC	Measure	No
MFGHEAD	MFGHEAD	RMNEXTQTY_0	Quantity Remaining	Measure	No

4.5   Calculated fields

Field	Description	Type	Prompt	Expression
FLD0000001	Year	Dimension	Yes	Year(MFGOPE.OPESTR_0)
FLD0000002	Month	Dimension	Yes	Month(MFGOPE.OPESTR_0)
FLD0000003	Day	Dimension	No	Day(MFGOPE.OPESTR_0)

4.6   Prompts

List of required prompts for this process:

Name
Year
Month
Work Order
Work Center
Work Order Operation Status
Work Order Operation TUnit
Work Order Status
Facility (Site)
Item
Product Category
Product Statistical Group 1
Product Statistical Group 2
Product Statistical Group 3
Product Statistical Group 4
Product Statistical Group 5

4.7   Recommended Links

Work Order Detail can be linked to the following processes:
- Manufacturing Variances with the field MFGNUM
- Inventory Process with the field ITMREF.
- Product Process with the field ITMREF.

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.