Calculating the Ageing of the Materials

Applies to:
SAP BW 3.5, Will also work on SAP BI 7 For more information, visit the Business Intelligence homepage.

Summary
This article explains how to calculate the Age of the Material and give related Stock Quantity.

Author: Surendra Kumar Reddy Koduru
Company: ITC Infotech India Ltd. (Bangalore/INDIA)
Created on: 07 March 2009

Author Bio
Surendra Kumar Reddy Koduru is a SAP BI consultant currently working with ITC Infotech India Ltd (Bangalore/INDIA). He has over 4+ years of experience in various BW/BI implementation/Support projects.
**Table of Contents**

Introduction: ........................................................................................................................................................3

Importance of this Report: ..................................................................................................................................3

Logic: .................................................................................................................................................................3

Steps: ...................................................................................................................................................................3

1. Create a Formula Variable with Replacement path see the properties shown below ....................................3

2. Create one more Formula variable with Customer Exit. See the properties shown below .......................4

3. Write the following code in Customer Exit (in CMOD) ..............................................................................5

Code: .................................................................................................................................................................5

Report: ..............................................................................................................................................................5

Related Content ................................................................................................................................................12

Disclaimer and Liability Notice .......................................................................................................................13
Introduction:
This article describes how to calculate the Stock Ageing of the Materials. By looking at this report the users/Management knows that what the age of the particular Material and Batch, based on that, they will push the Materials in to the Market.

Importance of this Report:
This report will decide the Revenue of the Business. Because by looking at this report, Management/Sales Executive comes to know that, first which Materials need to push into the market. So by this you can sell 100% of your Products in time which are produced at various Plants and reduce the wastage of Material due to expiry date (Shelf Life).

- This article will tell you, how to subtract the Dates, so you can use this logic in another scenario also, here I taken, how to calculate the Age of the Material.

Logic:
Here we are using 0IC_C03 InfoCube, which will give the Stock Quantity at various locations (Plants level) based Material and Batch combinations. Batch is having the Date of Manufacturing, this is attribute of 0BATCH.

In this example we are considering
Characteristics:
Division
Material
Batch
Plant

Note: Batch is having Manufacturing date as an attribute.

Time Characteristics:
0Calday.

KeyFigure:
Valuated stock qty (0VALSTCKQTY)

Steps:
1. Create a Formula Variable with Replacement path see the properties shown below…

   - Type of Variable = Formula
   - Variable Name = ZBMFG
   - Characteristic = Batch
   - Replace Variable With = Attribute Value
   - Attribute = Date of Mfg.
   - For Intervals Use = Select From Value
   - Offset Start = 0000   Offset Length = 0000
2. Create one more Formula variable with Customer Exit. See the properties shown below…

- **Type of Variable**: Formula
- **Variable Name**: ZCURDAY
- **Description**: Current Day Value
- **Processing by**: Customer Exit
- **Characteristic**: Formula Variable
- **Variable Entry is**: Mandatory
- **Ready for Input**: Don’t check it
- **Replace Variable With**: Attribute Value
- **Dimension ID**: Date
Calculating the Ageing of the Materials

3. Write the following code in Customer Exit (in CMOD)

Code:

IF i_step = 2.
    CASE i_vnam.
        WHEN 'ZCURDAY'.
            CLEAR: l_s_range.
            l_s_range-low = sy-datum.
            l_s_range-sign = 'I'.
            l_s_range-opt = 'EQ'.
            APPEND l_s_range TO e_t_range.
    ENDCASE.
ENDIF.

Report:
Totally we have 3 Variables.
ZBMFG   - For Batch Manufacturing date.
ZCURDAY - For to get Current date.
ZCDAY   - User Input Variable on 0Calday
User will enter the Date using ZCDAY variable, so till that date, the data will retrieve from InfoCube.
So till that date, the Age of Materials will calculates in report and it will display in buckets i.e. 0-30 Days, 31-60 Days, and 61-90 Days like that. So the Total stock will display in each bucket.
Calculating the Ageing of the Materials

<table>
<thead>
<tr>
<th>Description</th>
<th>Technical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar Day</td>
<td>0CALDAY</td>
</tr>
<tr>
<td>Calendar Day (single value)</td>
<td>ZCDAY-1</td>
</tr>
<tr>
<td>Key Figure</td>
<td>1KYFNM</td>
</tr>
<tr>
<td>Valuated stock qty</td>
<td>OVALSTCKQTY</td>
</tr>
</tbody>
</table>
Calculating the Ageing of the Materials

\[
(\text{Current Day Value} - \text{Batch Manufacturing Date}) \leq 30 \Rightarrow \text{Stock}
\]
Calculating the Ageing of the Materials

```
30-60 Days

('Difference' > 30) AND ('Difference' <= 60) * 'Stock'
```

**Operands**
- Formula Variable
  - % Monthly Sales to Forecast
  - Batch Manufacturing Date
  - Broken and Shrivelled
  - Conversion Exit
  - Current Day Number
  - Current Day Value
  - Current Day no. of Input day
  - First Day of Input Month
  - First Week of Current Month
  - First week of current month
  - Fumigation Date
  - Goods Rec'd Date

**Functions**
- Basic Functions
  - High
- Percentage Functions
- Data Functions
- Mathematical Function
- Trigonometric Function
- Boolean Operators
Calculating the Ageing of the Materials

Run the Report then give Date and execute.
Calculating the Ageing of the Materials

You can see the above report result. You can hide **Stock** and **Difference** columns, I just displayed for our understanding purpose only. I restricted this report only till 90 days, so in the first row the difference is 119 but it doesn’t fall on any bucket, because I defined up to 90 days only.

In the second row Difference is **71** days, so it will fall on 60-90 Days, so the stock will display under 60-90 days column.
Related Content

Reports Check in Application Server

Using Text Variables with Customer Exits in Report Headings

BI Suite: Business Explorer

For more information, visit the Business Intelligence homepage.
Disclaimer and Liability Notice

This document may discuss sample coding or other information that does not include SAP official interfaces and therefore is not supported by SAP. Changes made based on this information are not supported and can be overwritten during an upgrade.

SAP will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

SAP offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by SAP. You agree that you will not hold, or seek to hold, SAP responsible or liable with respect to the content of this document.