Stock ageing report in abap

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Stock ageing report in sap abap. Inventory aging report formula. What is stock ageing report. Ageing stock report in sap. Example of inventory aging report.

Hi Guys,I have 2 years of experience in SAP ABAP.We got the requirement for developing Inventory ageing with Batch wise. So i tried to build the logic. that is I used MCHBH, MCHB for Opening stock for Batch wise and MKPF, MSEG Transactions with in a month.But Which mpovement types need to considered am unable get.My Client wants Stock movement report and Inventory ageing report both should match as selected period.s_p00_07000139 am verifying this report but am unable to build the logic. So please help me to.... Thanks & regards Surender The foremost need is to understand what is inventory aging and how it affects our business? In simple terms: Inventory Aging indicates how long a product has been hoarded in a warehouse. Inventory Aging is of utmost significance in the food industry along with others, where consumable goods which are first packed and then sold to maintain fresh supply in the market and avoid wastage through spoilage. Hence, the warehouse-keeper must know which batch of product should be dispatched first. Generally, items are placed in a warehouse in the order they are manufactured, Inventory Aging makes it easier to sort and keep track of their dispatch. However, problems arise when it comes to keeping a record of the manufacturing date of the goods vis-à-vis their receipt date (if there is time lag between manufacturing and arriving at warehouse). The space in warehouse is limited and keeping track of the dates and the quantity of the goods produced under a specific lot requires an ERP system as well as a proper data maintenance exercise; which if missing, gives rise to the problem. Since stocks are one of the most important investments made by any business, optimum quantity and turnover period are essential to be successful. Faster the conversion, better the prospects for the business, as stocked up inventories mean stuck-up cash, which could convert to loss in case of perishable produce. Thereby to monitor stock and identify slow-moving or non-converted inventory, stock aging analysis reports are made. The most common stock aging analysis involves determining the age of product as the difference between the actual date of manufacturing and the dispatch/purchase date (present date in case of non-moving inventories). What if a Company does not have the Inventory Ageing Report? There can be many recognized or unrecognized inventory problems. Surplus, obsolete materials, just-in-case safety stocks, material stored in the wrong warehouse, material not good enough to use but too good to throw away and items approaching their shelf-life; all contribute to the problem. These inventory problems represent waste. They tie up business's money, require material handling and consume valuable space. Most importantly, inventory problems make the warehousing operation larger and complex, making it costlier than necessary. Business entities face multiple problems if a proper aging inventory management strategy is not implemented. Few of the major problems are listed below. Compliance issues, as in some countries, Inventory Aging Report is a statutory requirement in the Audit Process.Higher cost and potential loss due to depreciation of value, stifled cash flow or cost of holding.Complexity of planning and scheduling liquidation for the problem stocks adding cost to existing loss. Limited Usability of Standard Solutions Currently, there is no standard report solution offered by SAP in S/4HANA to find the age of inventory and calculate the associated value. There are few T Codes related to the age of inventory, but their usability is limited. TekLink has designed a value-added solution for Inventory Aging using S/4HANA Embedded Analytics and SAPUI5 dashboard technologies. This solution generates report(s) that help Warehouse Managers and Inventory Supervisors to monitor the age of the inventory by its receipt/posting date and manage the stocks better. Our solution enables real-time tracking of aging inventories on a SAP UI5 dashboard powered by S/4HANA. Following are the features of our solution: Data categorization into different Age Buckets like (>365 days, 365-201 days, 200-91 days, 90-31 days, 30-15 days, 15-1 day), and these age buckets can be modified as per the business requirements directly at CDS view level.Data accessibility with drill down options to view-Different product/materials falling in different age buckets and the total stocks of that material and corresponding stock value.Individual Age Buckets to identify the most aging product batch as well as individual products.Aging report by specific material, company code or storage locationGraphical visualization of comparative views such as,"Age Buckets VS Stocks, Total Value" aiding to identify the most critical materials by looking at the highest raised bar."Company Code, Inventory Stock Type VS Stocks, Total Value" helping users to identify stocks residing in different stock types and plan material movement e.g. Blocked to Unrestricted Use, Quality to Unrestricted, etc..Identification of key influencer materials, with the overview of material distributionUser friendly dashboard that is simple to learn, intuitive, with clutter-free design and required minimal navigation efforts Benefits of Inventory Aging Reporting Solution: Identifying the materials before it hits the point where potential profit possibilities are cancelled out by depreciation.Finding the value associated with the aged stocks and predicting the revenue that can be derived from them based on sales forecast and depreciation cost.Predicting the quantity of stocks that needs to be kept in the warehouse vs. the number that needs to be liquidated based on demand forecast to increase the liquidity of revenue.Visibility into stocks residing in different age buckets, different inventory stock type along with its associated value, and plan for the material movement.Ability to modify strategies specific to company, storage location, batch etc. Sneak peak into our Solution Architecture and Dashboard: Solution Architecture Dashboard View Contact TekLink to learn how you can optimize your inventory aging tracking process. Inventory aging analysis i.e at which time interval does the current inventory belongs 0-30 days, 30-60 days, 1yr- 2 yr, more than 2 yr and so on. Inventory Aging Analysis T-code Transaction Code Description of T-code Functional Area of T-code MI01 Create Physical inventory Document MM - Inventory Management MI04 Enter inventory Count with Document MM - Inventory Management MIGO Goods Movement MM - Inventory Management MB51 Material Doc. List MM - Inventory Management OINM Object Link Medium PM - Plant Maintenance MI20 Print List of Differences MM - Inventory Management MC.9 INVCO: Material Anal.Selection,Stock MM - Inventory Controlling MB5B Stocks for Posting Date MM - Inventory Management MMBE Stock Overview LO - Material Master MI31 Batch Input: Create Phys. Inv. Doc. MM - Inventory Management MB52 List of Warehouse Stocks on Hand MM - Inventory Management MI24 Physical inventory List MM - Inventory Management MC46 INVCO: analysis of Slow-Moving Items MM - Inventory Controlling MICN Btch Inpt:Ph.Inv.Docs.for Cycle Ctng MM - Inventory Management MCNB BW: Initialize Stock Balances LO - Data Collection MIRO Enter Incoming Invoice MM - Invoice Verification LBWE LO Data Ext.: Customizing Cockpit LO - Logistics Information System (LIS) MC50 INVCO: analysis of Dead Stock MM - Inventory Controlling MB1C Other Goods Receipts MM - Inventory Management RSA3 Extractor Checker BC - BW Service API OITW Lower value limit for scale IM - Investment Programs MI10 Create List of Differences w/o Doc. MM - Inventory Management OBYC C FI Table T030 FI - Basic Functions SBIW BIW in IMG for OLTP BC - BW Service API SMI Memory Inspector BC - Syntax, Compiler, Runtime The HTML CheatSheet has its built-in editor where you can preview the document you are working on. 23 Mar 2015 12:49 pm vaibhav gupta Please try use T-Code: MC46 - Analysis of slow moving items,T-Code MC50 - Dead stock for the inventory report by ageing wise Recently I came across the requirement to get inventory ageing directly from SAP ERP 6.0 instead of calculating it on excel sheets with batch isn't configured. As a prerequisite, the company is using the FIFO method for ageing. So I used T-code: MB5B to get stock value and quantity on a specific date by reversing the usual equation of stock calculation Ending balance = Begining balance + Input - Output Current stock is known by kept on MBEW-LBKUM and value on MBEW-SALK3 and Input and output is known by material documents so we are left with only one unknown variable "Begining Stock" which is equivalent to "Stock on earlier date". so the stock equation will be Stock on earlier date = Ending Balance (Current Stock) - In + Out How is inventory ageing works Based on the date in the selection, the ageing report will calculate the beginning date and end date for each interval and submit these parameters to MB5B along with material code and plant code, then the result will be retrieved to the ageing report and processed to be displayed in the ALV. Report screenshots How to create the report The full illustration of how to create the report is available on the Github Thanks for reading. Introduction: Inventory ageing report gives an overview about the distribution of available stock of materials from over a period of time, from a selected key date in reverse chronological manner. For example, a particular material might have a stock of 100 PCS on a selected key date. This stock could have been purchased in 2 lots of 50 and 50 between 6 to 12 months and before 12 months. This material might not have been consumed and laying in stock as non moving item. This report aims at giving details of such stock distributions plotted over different periods known as buckets. By segregating and analysing such materials, the finance and purchasing teams will be able to plan and manage inventories in an efficient manner. The buckets of time could be anything within a month, within 6 months or for more than a year . How the New Inventory ageing report logic differs from the regularly used custom ageing reports: Brief overview of the logic employed in the new ageing report: The report does three activities predominantly. Calculating the stock of the material on a selected key date. Deriving the periods of time, otherwise known as buckets like stocks within a month, within 2 months....etc, dynamically based on the inputs given on the selection screen. Calculating the stocks of the material in the various bucket periods, arrived in previous step, and giving the output. Logic of working in detail: Please refer the input screen. Once the plant / material types and key date is entered, valid materials in the selected plant and material type are fetched. The encircled (red) fields represent the buckets or periods to be analysed. The buckets are flexible, and can be changed by user as per requirement. For the above entered combination of buckets and key date, the ageing buckets derived automatically by the system will be like: BucketsIn monthsFrom Year / periodTo Year period1Within 1 month2019 / 112019 / 122Between 1 to 2 months2019 / 102019 / 113Between 2 to 3 months2019 / 092019 / 104Between 3 to 6 months2019 / 062019 / 095Between 6 to 12 months2018 / 122019 / 066Greater than 12 months2018 / 12 Calculation of material stock on key date: Note: The company code in example uses an april to march fiscal year period. Pass the material / plant (bwkey) field to MBEW table and fetch fiscal year and period. The year / period for material as per MBEW is 2020 / 01, and year / period of the key date given (31.03.20) is 2019 / 12. If the year / period fetched in MBEW is greater than key date year / period, we need to take the stock on key date by passing the respective key date year / period to MBEWH table and get the stock from LBKUM field. If the year / period in MBEW table is less than or equal to the year / period of key date then fetch the stock of the material from LBKUM field of MBEW table. This is the key date stock in this case. 3. Constructing the stock details for missing periods per fiscal year. Please note the below screen shot. Material code is 11990003 and plant is 2001. Fiscal Year 2019 has one entry for period 12. There no entries for other periods in year 2019. Similarly in fiscal year 2018, periods stocks in 12, 11, 10, 6, 5 are only listed. The logic for building the stock details in missing year / period is as below: The stocks in year / periods not listed have same stock as that of immediately available / listed year / period above the missing period. If we take year 2017, we have stocks on period 10 and 12. But details for year 11 is missing. As per above logic the stock in period 11 is simply the stock in immediate available period just above 11, i.e 12 which is 18,219.00. Note: 2017 / 11 is 28.02.18 and 2017 / 12 is 31.03.18. Stock on 31.03.18 for material 11990003 in plant 2001: Stock on 28.02.18 for material 11990003 in plant 2001: The stock details are built for the periods determined automatically by the system in step 1. 4. Building the bucket stock information. The bucket stocks are filled using following logic. BucketsFrom Year / periodTo Year periodBucket stock derivation12019 / 112019 / 12Stock in period 2019/12 – stock in period 201922019 / 102019 / 11Stock in period 2019/11 – stock in period 2019/1032019 / 092019 / 10Stock in period 2019/10 – stock in period 2019/0942019 / 062019 / 09Stock in period 2019/09 – stock in period 2019/08 + (Stock in period 2019/08 – stock in period 2019/07) + (Stock in period 2019/07- stock in period 2019/06).52018 / 122019 / 06 (Stock in period 2019/06 – stock in period 2019/05) + (Stock in period 2019/05 – stock in period 2019/04) + (Stock in period 2019/04- stock in period 2019/03 – stock in period 2019/03) + (Stock in period 2019/02 – stock in period 2019/01)+ (Stock in period 2019/01 – stock in period 2018/12).62018 / 12Stock in period 2018/12. Here for e.g., stock in period 2018/12 means stock at end of the 2018/12. To check above logic with standard MB5B. Suppose we have input bucket months as 24, 48, 54, 72, 96 for material 11990003. The bucket details will be as below. BucketsIn monthsFrom Year / periodTo Year period1Within 24 month2017 / 122019 / 122Between 24 to 48 months2015 / 122017 / 123Between 48 to 54 months2015 / 062015 / 124Between 54 to 72 months2013 / 122015 / 065Between 72 to 96 months2011 / 122013 / 126Greater than 96 months2011 / 12 Converting the year / period info to dates. Bucket 1: 2017/12 – 31.3.18 2019/12 – 31.3.20 Bucket 2: 2015/12 – 31.3.16 2017/12 – 31.3.18 Bucket 3: 2015/06 – 30.9.15 2015/12 – 31.3.16 Bucket 4: 2013/12 – 31.3.14 2015/06 – 30.09.15 Bucket 5: 2011/12 – 31.3.12 2013/12 – 31.3.16 Bucket 6: the stock on 2011/11 – 31.3.12 is taken. The ageing report output obtained is : Comparing the above report with standard MB5B within the same periods: Stock on key date 31.3.20 as per report : 19319. Stock as per MB5B. Bucket 1 period stock comparison: Bucket 1 period : Bucket 1: 2017/12 – 31.3.18 to 2019/12 – 31.3.20 Note: For bucket calculation , the difference of total goods receipt and issues within the period must be considered in MB5B. as per report : 1100. Stock as per MB5B: (1100 = 1100 -0) / (Total Receipts – Total issues) in this period. Bucket 2 period stock comparison: Bucket 2 period: 2015/12 – 31.3.16 to 2017/12 – 31.3.18 As per report: 150. As per MB5B: (150 = 180 – 30) Bucket 3 period stock comparison: Bucket 3 period : 2015/06 – 30.9.15 to 2015/12 – 31.3.16 Stock as per report : 3222.5 Stock as per MB5B: (3222.5 = 6958.5 – 3736) Bucket 5 stock comparison: Bucket 5 period: 2011/12 – 31.3.12 to 2013/12 – 31.3.14 Stock as per MB5B: 0. Bucket 4 stock comparison: Bucket 4 period: 2013/12 – 31.3.14 to 2015/06 – 30.09.15 Stock as per report : 0. Stock as per MB5B: 0 Sum of bucket stocks matches with stock on key date. Summarizing: We saw how to check if a material is slow moving, fast moving or non moving item, in a very simple manner using combination of valuated stock tables MBEW / MBEWH. In my experience of developing this report using MKPF / MSEG tables, often it was a question of accuracy vs performance. If more accuracy is needed, it was required to all the movement types executed for the material. In doing so however, performance use to take a hard hit. This new logic however bridged the gap and now both accuracy and performance are equally achievable. Even if it is felt that employing MKPF / MSEG tables have more choices to play with, but in my opinion even this report will be giving an overview of stock information and a actual drill down will be required to micro analyse the material movement. This said so, we can say that the same results are achievable in a swift manner using the new logic. Okumaya devam et...

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