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## **SAP ABAP**

SAP: -systems, applications and products in data processing

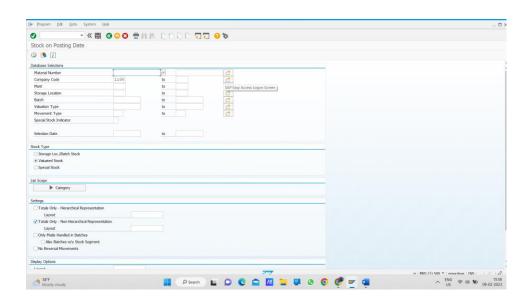
ABAP- Advanced Business Application Programming

ABAP is a fourth-generation programming language, used for development and customization purposes in the SAP software. Currently positioned along with Java, as the main language for SAP application server programming, most of the programs are executed under the control of the run-time system.

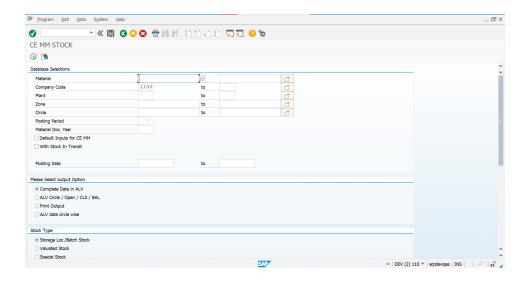
SAP ABAP is a high-level language that is primarily used to develop enterprise application for large business and financial institution on SAP platform. This tutorial is designed for those who want to learn the basics of SAP ABAP and advance in the field of software development.

**Requirement:** - Requirement from the business. The need of the report is to execute based on MRP type and record and get all the requirement of the material.

Preciously they use -MB5B but the issues with that is they can't run it on multiple material so to overcome that thing now currently they are using zmm130.



MB5B



## **ZMM130**

## Software/tool used: -

- SAP Software
- ❖ NET WEAVER
- DATABASE MAXDB
- SOLMAN

#### **ALV**

The ABAP List Viewer (ALV) is a set of application programming interfaces (APIs; function modules or classes) for displaying data in a tabular or hierarchical format and built-in options for visual presentation and event processing.

ALV is originally short for <u>ABAP</u> List Viewer, but the current term found in SAP documentation is *SAP List Viewer*. This is of little importance, though: in everyday practice, it's simply referred to as ALV, not by any longer name.

To users, ALV offers a friendly interface with a toolbar that allows each user to adjust the presented layout to their preferences and sort or filter data easily. Many standard SAP reports use ALV and it has become a popular tool when building custom ABAP reports due to its flexibility, ease of implementation, and variety of features.

#### **ABAP List**

The first tool for data output in tabular format was *ABAP List* (see figure below). Such output was generated by using the WRITE command to display one line of data on the screen. To present the data in a grid format, the fields needed to be placed at specific, static positions on the screen while processing data in a loop or a cycle.

This type of presentation, traditional in mainframe-based systems for the last century, was inconvenient for both developers and users. Developers had to write all the code

manually to output each field, as well as the column headers and totals or subtotals. And users were offered only a rigid report structure that they couldn't modify without requesting a change in the program. Making changes in such reports was also inconvenient and time-consuming.

Progr	am			
Program	m			
001 AA	0017 NEW YORK	JFK SAN FRANCISCO	SFO	6:01
001 AA	0064 SAN FRANCISCO	SFO NEW YORK	JFK	5:21
001 AZ	0555 ROME	FCO FRANKFURT	FRA	2:05
001 AZ	0788 ROME	FCO TOKYO	TYO	12:55
001 AZ	0789 TOKYO	TYO ROME	FCO	15:40
001 AZ	0790 ROME	FCO OSAKA	KIX	13:35
001 DL	0106 NEW YORK	JFK FRANKFURT	FRA	7:55
001 DL	1699 NEW YORK	JFK SAN FRANCISCO	SFO	6:22

#### **ALV List**

The first implementation of the ALV framework was the *Classic SAP List Viewer*, usually referred to as *ALV List*. As you can see in the next figure below, this was a major improvement over the plain ABAP List functionality: the columns are nicely aligned and the toolbar offers additional functionality, such as sorting, filtering, and subtotals. More importantly, users could choose which columns they wanted to view and in which order. Their

preferences could be saved in a *layout* to be applied next time they ran the report.

For developers, ALV offered a unified set of tools for data presentation, with no more calculating the screen position of each column and writing all the code manually. When using the ALV framework, developers only needed to be concerned with preparing business data; the ALV framework took care of the presentation.

Classic SAP List Viewer supported single-level lists, like the one shown below, and multilevel or sequential lists.

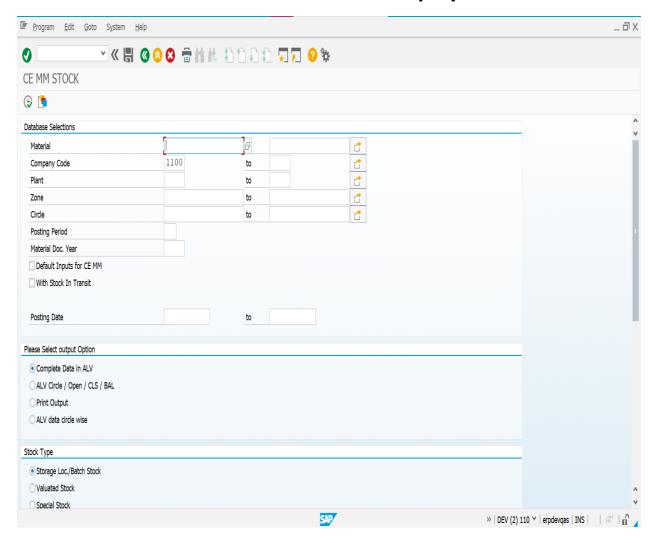
#### **ZMM130**

ZMM130 is a T- Code used to access the material report in sap.

ZMM is a full display interface of purchase of goods in material management.

Report contains different displays option of material purchase.

#### **Zmm130 window Display**



- ZMM130 window contain different options to display the data explained below: -

**Material:** - material contains all the materials details specified with unique code digit.

Company code: - digit code given to the company.eg;1100

**Plant:** - Plant is unit site or place which transactions of material is done.

**Zone:** - There is three zone define in zmm130 north south center according to the area side.

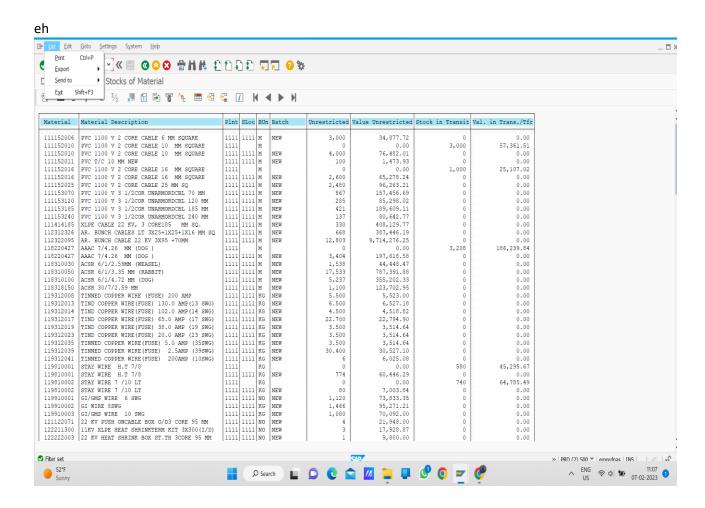
**Circle:** -circle are sub divided area of zone

**Posting period:** -period of data updated entries in report data.

**Material doc. Year:** -document write details of material according to time year

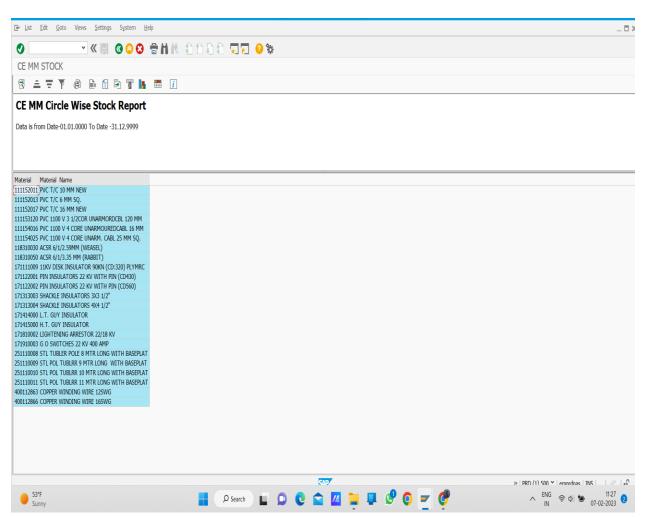
#### -- There are 4 different option to display the output--

- 1.Complete data in ALV: -AVL (ABAP LIST VIEWER)
  - 1. In this no information list data is absent complete data is show without any filter or abstraction
  - 2. Almost whole information single big volume unit.
  - 3. It includes complete information of selected type like plant, zone, circle anything.



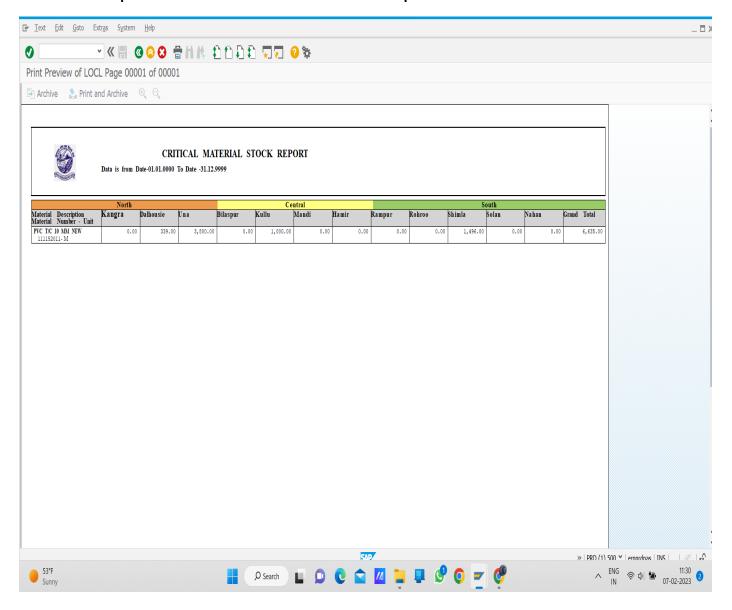
## 2.ALV Circle/open/Cls/Bal:-

- This display output used when one need a output specific circle data display
- Open and Cls is an open and close display in report data output
- Bal is balance sheet data in alv



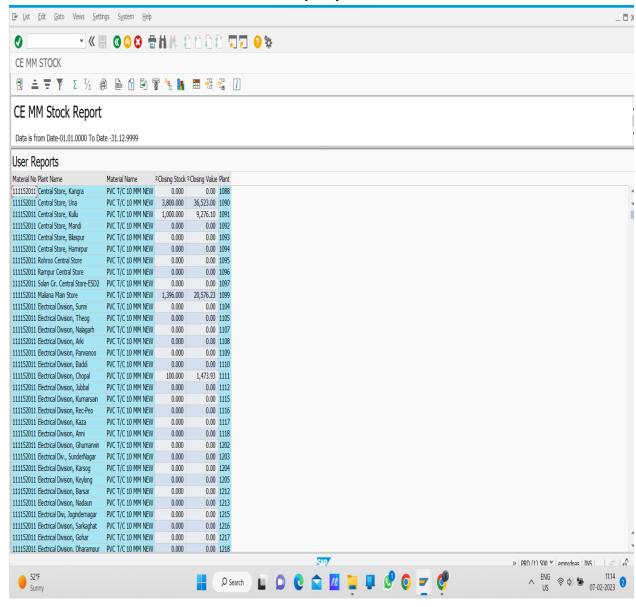
#### 3.Print output: -

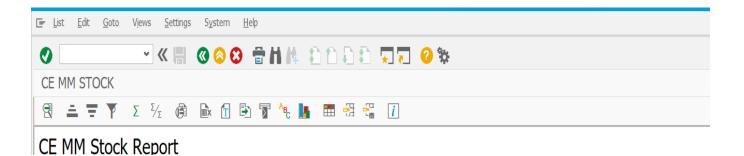
- ❖ This option gives the output of the selected unit type.
- ❖ Print preview can be seen or have preview screen.



#### 4.Alv data circle wise: -

- ❖ Gives List view of data report on screen circle wise.
- ❖ Selected circle information display on the screen.





#### **DIFFERENT OPTIONS: -**

**Ascending Order:** - It shows data in ascending order I.e., it shows data from higher to lower digit.

**Descending order: -** it shows data in descending order I.e., it shows data from lowest to higher value.

**Filter:** - one of the important options for having the exact information about what the user is desire to find.

**Change layout:** -change layout of the display output.

**ABC Analysis:** - analysis the output data.

**Conclusion:** -After working on zmm130 which is report of material management we find that it is easy to have view of transaction data of material purchase or other transaction.

The finding of data for particular term or section become easy.

## References: -

- \* SAP Community Tour the SAP Community and explore the various features of SAP Community.
- ❖ Sams Teach Yourself ABAP/4® in 21 Days.
- \*\*
- https://help.sap.com/docs/SAP\_PROFITABILITY\_AND COST\_MANAGEMENT/2a1e337ac18d4557af55f178 9f48aecb/fae59fb26faf1014878bae8cb0e91070.html
- https://help.sap.com/docs/SAP\_S4HANA\_ON-PREMISE/2c0f74c2ca4d401d92b7d727798d6c94/7b47d153da7e4308e10000000a174cb4.html