

**Module Pool Programming with
System Application Product (SAP)**

A Major Project Submitted in Partial Fulfilment of the requirements

for award of the degree of

MASTER OF ENGINEERING IN ELECTRONICS AND COMMUNICATION ENGINEERING

DELHI UNIVERSITY, DELHI

Submitted By

Sunil Khinchi (11 / E&C / 03)

Delhi University Roll No. 2851

Under The Guidance of

Mr. O.P. Verma

Assistant Professor

Department of Electronics & Communication Engineering

Delhi College of Engineering, Delhi.



Department of Electronics & Communication Engineering

Delhi College of Engineering,

Delhi - 110042.

June – 2007

CERTIFICATE

This is certify that this thesis work entitled “**MODULE POOL PROGRAMING WITH SYSTEM APPLIATION PRODUCT (SAP)**” is bonafide work carried out by **SUNIL KHINCHI (11 / E&C / 03 DU Roll NO. 2851)** who carried out the Major Project work under my supervision and submitted in partial fulfilment of the requirements for the award of the Degree Master of Engineering.

Mr. O. P. Verma,

Assistant Professor,

Department of Electronics & Communication,

Delhi College of Engineering – DELHI.

ACKNOWLEDGEMENTS

Behind every achievement of a student lie the unflinching efforts of his teachers without whom, as student we could never know the liveliness of hard work and to this day we certainly feel it as our worldly pleasure to get living to this day of thanking them.

I would like to thank our Had of Department **Professor Ashok Bhattachary and My Project Guide Mr. O. P. Verma** for their kind co-operation in bringing out this Project.

Sunil Khinchi

11 / E&C / 03

DU Roll No. 2851

ABSTRACT

The Work in this thesis “**MODULE POOL PROGRAMING WITH SYSTEM APPLICATION (SAP)**” present an approach to design and customize system application product (SAP) an Enterprise Resource Planning (ERP) Package as per the requirement of organization for the sales and distribution, material management and finance and control.

This report is prepared in advance Business Application Programming (ABAP) Language and screens are generated with help of Module Pool Programming.

CONTANTS

Acknowledgement

Abstract

- 1. Introduction**
 - 1.1 Major Advantage and Disadvantage
 - 1.2 ERP Product
 - 1.3 About SAP
 - 1.4 Major Product
- 2. Types of Project**
 - 2.1 SAP Tickets and SLA
 - 2.2 Types of Consultants
 - 2.3 Functional Consultants
 - 2.4 Technical Consultants
 - 2.5 Roles and Responsibility of Consultants
- 3. SAP Architecture**
 - 3.1 SAP Landscape
 - 3.2 ASAP Methodology
 - 3.3 Virtual Private Network
- 4. Link Between SAP Modules**
- 5. SAP R/3 Custom Configuration and Implementation**
- 6. Logistics Configuration**
 - 6.1 Overview
 - 6.2 Maintain Plant
 - 6.3 Unit of Measurement
 - 6.4 Configuration of Purchasing
 - 6.5 G/L Account Configuration
- 7. Logistics General Customization**
- 8. Reports**
- 9. Summery and Conclusion**
- 10. Reference**

Chapter 1

INTRODUCTION

SAP was founded in 1972 in Walldorf, Germany. It stands for Systems, Applications and Products in Data Processing. Over the years, it has grown and evolved to become the world premier provider of client/server business solutions for which it is so well known today. The SAP R/3 enterprise application suite for open client/server systems has established a new standards for providing business information management solutions.

SAP product are consider excellent but not perfect. The main problems with software product is that it can never be perfect.

The main advantage of using SAP as your company ERP system is that SAP have a very high level of integration among its individual applications which guarantee consistency of data throughout the system and the company itself.

In a standard SAP project system, it is divided into three environments, **Development, Quality Assurance and Production.**

The development system is where most of the implementation work takes place. The quality assurance system is where all the final testing is conducted before moving the transports to the production environment. The production system is where all the daily business activities occur. It is also the client that all the end users use to perform their daily job functions.

To all company, the production system should only contains transport that have passed all the tests.

SAP is a table drive customization software. It allows businesses to make rapid changes in their business requirements with a common set of programs. User-exits are provided for business to add in additional source code. Tools such as screen variants are provided to let you set fields attributes whether to hide, display and make them mandatory fields.

Chapter 2

Types of Projects

The project types delivered with the SAP Solution Manager allow you to differentiate between different types of projects. You can use the SAP Solution Manager to create the following projects:

- **Implementation Project**

Project to implement business processes in an SAP landscape.

Create a project structure from the business processes. You can either create a new project structure, or base it on one of the following:

- One or more user or partner templates
- An existing project
- Scenarios and configuration structures delivered by SAP
- An existing production solution landscape

- **Template Project**

A project to **create a template**.

A template makes your project structure, or parts of it, with its assigned objects (documentation, test cases, IMG activities), available to other projects.

You can lock templates, completely or partially, against changes when they are used in other projects. To use templates in other systems, transport them.

Template projects are especially suited to SAP partner solutions or global rollout.

- **Upgrade Project**

A project to upgrade existing systems.

In an upgrade project you can:

- Upgrade customizing: Upgrade existing functions
- and/or
- Delta customizing: Copy additional functions

- **Optimization project**

A project to optimize the flow of business processes, or the use of a software solution.

You can use optimization projects, for example, in SAP Services.

- **Safeguarding project**

A project to resolve a critical situation in the implementation or use of an SAP solution.

Safeguarding projects show the reasons for a critical situation and coordinate the steps required to resolve the problems.

- **Maintenance project**

A project to maintain a solution

Chapter 3

SAP R/3 Architecture

History of SAP R/3

The first version of [SAP](#)'s flagship enterprise software was a financial Accounting system named R/1. This was replaced by R/2 at the end of the 1970s. [SAP R/2](#) was in a [mainframe based](#) business application software suite that was very successful in the 1980s and early 1990s. It was particularly popular with large multinational European companies who required soft-real-time business applications, with multi-currency and multi-language capabilities built in. With the advent of distributed [client-server](#) computing SAP AG brought out a client-server version of the software called SAP R/3 (The "R" was for "Real-time data processing" and 3 was for [3-tier](#)). This new architecture is compatible with multiple platforms and operating systems, such as [Microsoft Windows](#) or [UNIX](#). This opened up SAP to a whole new customer base.

SAP R/3 was officially launched on 6 July 1992. It was renamed [SAP ERP](#) and later again renamed [ECC](#) (ERP Central Component). SAP came to dominate the large business applications market over the next 10 years. SAP ECC 5.0 ERP is the successor of SAP R/3 4.70. The newest version of the suite is MySAP 2005 or SAP ECC 6.0.

SAP R/3 Release 4.0B Release Date June 1998

SAP R/3 Release 4.5B Release Date March 1999

SAP R/3 Release 4.6B Release Date Dec 1999

SAP R/3 Release 4.6C Release Date April 2001

SAP R/3 Enterprise Release 4.70 Release Date March- Dec 2003

SAP ECC 5.0 ERP (mySAP ERP 2004) Release Year 2004

SAP ECC 6.0 ERP (mySAP ERP 2005) Release Year 2005^[2]

[\[edit\]](#) Organization

SAP R/3 is arranged into distinct functional modules, covering the typical functions in place in an organization. The most widely used modules are Financials and Controlling (FICO), [Human Resources \(HR\)](#), [Materials Management \(MM\)](#), Sales & Distribution (SD), and Production Planning (PP). Those modules, as well as the additional components of SAP R/3, are detailed in the next section.

Each module handles specific business tasks on its own, but is linked to the others where applicable. For instance, an invoice from the Billing transaction of Sales & Distribution will pass through to accounting, where it will appear in [accounts receivable](#) and cost of goods sold.

SAP has typically focused on best practice methodologies for driving its software processes, but has more recently expanded into [vertical markets](#). In these situations, SAP produces specialized modules (referred to as IS or Industry Specific) geared toward a particular market segment, such as utilities or retail.

Using SAP often requires the payment of hefty [license fees](#), as the customers have effectively outsourced various business software development tasks to SAP. By specializing in software development, SAP hopes to provide a better value to corporations than they could if they attempted to develop and maintain their own applications.

[\[edit\]](#) Technology

SAP based the architecture of R/3 on a three-tier client/server model.

1. Presentation Server 2. Application Server 3. Database Server

[\[edit\]](#) Presentation Server

The presentation server is actually a program named `sapgui.exe`. It is usually installed on a user's workstation. To start it, the user double-clicks on an icon on the desktop or chooses a menu path. When started, the presentation server displays the R/3 menus within a window. This window is commonly known as the SAPGUI, or the user interface (or simply, the interface). The interface accepts input from the user in the form of keystrokes, mouse-clicks, and function keys, and sends these requests to the application server to be processed. The application server sends the results back to the SAPGUI which then formats the output for display to the user.

[\[edit\]](#) Application Server

An application server is a set of executables that collectively interpret the ABAP/4 programs and manage the input and output for them. When an application server is started, these executables all start at the same time. When an application server is stopped, they all shut down together. The number of processes that start up when you bring up the application server is defined in a single configuration file called the application server profile. Each application server has a profile that specifies its characteristics when it starts up and while it is running. For example, an application sever profile specifies: • Number of processes and their types • Amount of memory each process may use • Length of time a user is inactive before being automatically logged off. The application server exists to interpret ABAP/4 programs, and they only run there-the programs do not run on the presentation server. An ABAP/4 program can start an executable on the presentation server, but an ABAP/4 program cannot execute there. If your ABAP/4 program requests information from the database, the application server will format the request and send it to the database server.

[\[edit\]](#) Discovering the Database Server

The database server is a set of executables that accept database requests from the application server. These requests are passed on to the RDBMS (Relation Database Management System). The RDBMS sends the data back to the database server, which then passes the

information back to the application server. The application server in turn passes that information to your ABAP/4 program.

There is usually a separate computer dedicated to house the database server, and the RDBMS may run on that computer also, or may be installed on its own computer.

SAP R/3 functionality is structured using its own proprietary language called [ABAP](#) (Advanced Business Application Programming). ABAP, or ABAP/4 is a [fourth generation language \(4GL\)](#), geared towards the creation of simple, yet powerful programs. R/3 also offers a complete development environment where developers can either modify existing SAP code to modify existing functionality or develop their own functions, whether reports or complete transactional systems within the SAP framework.

ABAP's main interaction with the database system is via Open [SQL](#) statements. These statements allow a developer to query, update, or delete information from the database. Advanced topics include [GUI](#) development and advanced integration with other systems. With the introduction of [ABAP Objects](#), ABAP provides the opportunity to develop applications with [object-oriented programming](#).

The most difficult part of SAP R/3 is its [implementation](#), since SAP R/3 is never used the same way in any two places. For instance, [Atlas Copco](#) can have a different [implementation](#) of SAP R/3 from [Procter & Gamble](#). Some companies may run multiple productive clients/systems or even multiple *instances* of SAP R/3. This is seen, for example, when a company running R/3 acquires a new business already running R/3. They may elect to keep both systems separate, migrate one into the other, or migrate both onto a completely new instance.

The system landscape is ultimately the customer's decision. There are definite pros and cons on the continuum from single global instance / productive client (master data, impact of configuration changes on multiple business units) to separate instances per business unit (hardware costs and communication between instances/clients)

Two primary issues are the root of the complexity and of the differences:

- Customization configuration - Within R/3, there are tens of thousands of database tables that may be used to control how the application behaves. For instance, each company will have its own accounting "Chart of Accounts" which reflects how its transactions flow together to represent its activity. That will be specific to a given company. In general, the behavior (and appearance) of virtually every screen and transaction is controlled by configuration tables. This gives the implementor great power to make the application behave differently for different environments. With that power comes considerable complexity.
- Extensions, Bolt-Ons - In any company, there will be a need to develop interface programs to communicate with other corporate information systems. This generally involves developing ABAP/4 code, and considerable "systems integration" effort to either determine what data is to be drawn out of R/3 or to interface into R/3 to load data into the system.

Due to the complexity of [implementation](#), these companies recruit highly skilled SAP consultants to do the job. The [implementation](#) must consider the company's needs and

resources. Some companies implement only a few modules of SAP while others may want numerous modules.

SAP has several layers. The **Basis System** (BC) includes the ABAP programming language, and is the heart (i.e. the base) of operations and should not be visible to higher level or managerial users. Other customizing and implementation tools exist also. The heart of the system (from a manager's viewpoint) are the application modules.

Chapter 4

Link Between SAP Modules

Link Between SAP SD, MM & FI

1. In SAP you will always get integration with other modules. SD will interact with FI, MM will interact with SD :-

1a. Looking at MM and SD interaction first, take the scenario of a third party order process. This process uses a purchase order (which is sent to your vendor). Also invoice verification is used further along the process to check that the invoice you send to your customer is the same material and quantity as that which the vendor sends to you (but obviously shipped directly to your customer).

1b. Billing is an SD function. But SAP needs to know, when processing a customer's payment, to which GL account the payment has to be processed. For instance payment of a UK based material would be placed in a different GL account to that of a non-UK based material. Furthermore, a UK based customer may have a different GL account to that of an Export customer. This is configured in Account Determination.

2. ABAPers are there to essential do some bespoke development. Your integration, or interaction, with them would be when specifying the tables, fields, input fields, a simple process explanation, data mapping (if doing an interface from one system to another) etc. ***-- Shahee**

The link between SD and MM :-

1. When you create sales order in SD, all the details of the items are copied from Material master of MM.

2. MRP and availability check related data is also taken from MM although you control this data in SD also.

3. While you create inbound/outbound delivery with reference to a sales order, the shipping point determination takes place with the help of the loading group, plant data, shipping conditions etc. This also refers to Material Master.

4. The material which you are entering in a sales order must be extended to the sales area of your sales order/customer otherwise you cannot transact with this material.

There are many such links between SD and MM.

Now the link between SD and FI :-

1. Whenever you create a delivery with reference to a sales order, goods movement takes place in the background. eg. In case of standard sales order, you create an outbound goods delivery to the customer.

Here movement 601 takes place. This movement is configured in MM. Also, this movement hits some G/L account in FI. Every such movement of goods hits some G/L account.

2. The accounts posting in FI is done with reference to the billing documents (invoice, debit note, credit note etc) created in SD. Thus this is a link between SD and FI

3. Tax determination: In case of a tax determination also, there is a direct link between SD and MM

SD Integration points with other modules

SD module is highly integrated with the other modules in SAP.

Sales Order -		
Integration Points		Module
•Availability Check	-	MM
•Credit Check	-	FI
•Costing	-	CO/ MM
•Tax Determination	-	FI
•Transfer of Requirements	-	PP/ MM

Delivery & Goods Issue -		
Integration Points		Module
•Availability Check	-	MM
•Credit Check	-	FI
•Reduces stock	-	MM
•Reduces Inventory \$	-	FI/ CO
•Requirement Eliminated	-	PP/ MM

Billing -		
Integration Points		Module
•Debit A/R	-	FI/ CO
•Credit Revenue	-	FI/ CO
•Updates G/ L (Tax, discounts, surcharges, etc.)	-	FI/ CO
•Milestone Billing	-	PS

Return Delivery & Credit Memo -		
Integration Points		Module
•Increases Inventory	-	MM
•Updates G/ L	-	FI
•Credit Memo	-	FI
•Adjustment to A/R	-	FI
•Reduces Revenue	-	FI

Tips by: Subha

SD Transaction Code Flow:

Inquiry / Document type IN

Tcode for creation VA11,VA12,VA13. tables VBAK,VBAP

Quotation / QT

Tcode for creation VA21,VA22,VA23. tables VBAK,VBAP

Purchase Order PO

Tcode for creation ME21,ME22,ME23. tables EKKO,EKPO.

Sales Order OR

Tcode for creation VA01,VA02,VA03. tables VBAK,VBAP

Delivery LF

Tcode for creation VL01,VL02,VL03. tables LIKP,LIPS

Billing MN

Tcode for creation VF01,VF02,VF03. tables VBRK,VBRP

To create a sales order we need purchase order number and customer number. Before that, to create a purchase order we need to have material no, vendor no.

To create vendor tcode is

xk01(create), xk02(change) , xk03(display)

Tables are lfa1.

To create customer tcode is xd01, xd02, xd03.

Table is kna1.

Chapter 8

Reports

```
REPORT ZDEMO_001 .
```

```
TYPE-POOLS SLIS.
```

```
DATA I_FIELDCAT TYPE SLIS_T_FIELDCAT_ALV.
```

```
DATA WA_FIELDCAT TYPE SLIS_FIELDCAT_ALV.
```

```
DATA IT_VBAK LIKE VBAK OCCURS 0 WITH HEADER LINE.
```

```
START-OF-SELECTION.
```

```
SELECT * FROM VBAK INTO TABLE IT_VBAK UP TO 20 ROWS.
```

```
END-OF-SELECTION.
```

```
* CALL FUNCTION 'REUSE_ALV_FIELDATALOG_MERGE'
```

```
* EXPORTING
```

```
** I_PROGRAM_NAME      =
```

```
* I_INTERNAL_TABNAME   = 'IT_VBAK'.
```

```
* I_STRUCTURE_NAME     = 'VBAK'
```

```
** I_CLIENT_NEVER_DISPLAY = 'X'
```

```
** I_INCLNAME          =
```

```
** I_BYPASSING_BUFFER   =
```

```
** I_BUFFER_ACTIVE     =
```

```
* CHANGING
* CT_FIELDCAT          = I_FIELDCAT
** EXCEPTIONS
** INCONSISTENT_INTERFACE    = 1
** PROGRAM_ERROR            = 2
** OTHERS                   = 3
*
* IF SY-SUBRC <> 0.
** MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
** WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
* ENDIF.
```

```
WA_FIELDCAT-FIELDNAME = 'VBELN'.
```

```
WA_FIELDCAT-SELTEXT_L = 'Sal doc no'.
```

```
WA_FIELDCAT-KEY = 'X'.
```

```
APPEND WA_FIELDCAT TO I_FIELDCAT.
```

```
CLEAR WA_FIELDCAT.
```

```
WA_FIELDCAT-FIELDNAME = 'ERDAT'.
```

```
WA_FIELDCAT-SELTEXT_L = 'Date'.
```

```
APPEND WA_FIELDCAT TO I_FIELDCAT.
```

```
CLEAR WA_FIELDCAT.
```

```
WA_FIELDCAT-FIELDNAME = 'ERNAM'.
```

```
WA_FIELDCAT-SELTEXT_L = 'Name'.
```

APPEND WA_FIELDCAT TO I_FIELDCAT.

CLEAR WA_FIELDCAT.

CALL FUNCTION 'REUSE_ALV_LIST_DISPLAY'

EXPORTING

IT_FIELDCAT = I_FIELDCAT

- * IT_EXCLUDING =
- * IT_SPECIAL_GROUPS =
- * IT_SORT =
- * IT_FILTER =
- * IS_SEL_HIDE =
- * I_DEFAULT = 'X'
- * I_SAVE = ''
- * IS_VARIANT =
- * IT_EVENTS =
- * IT_EVENT_EXIT =
- * IS_PRINT =
- * IS_REPREP_ID =
- * I_SCREEN_START_COLUMN = 0
- * I_SCREEN_START_LINE = 0
- * I_SCREEN_END_COLUMN = 0
- * I_SCREEN_END_LINE = 0

* IMPORTING

- * E_EXIT_CAUSED_BY_CALLER =
- * ES_EXIT_CAUSED_BY_USER =

TABLES

```
T_OUTTAB          = IT_VBAK
* EXCEPTIONS
* PROGRAM_ERROR    = 1
* OTHERS           = 2
.
IF SY-SUBRC <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*   WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
```

```
REPORT ZDEMO_002 .
```

```
TYPE-POOLS SLIS.
```

```
DATA IT_VBAP LIKE VBAP OCCURS 0 WITH HEADER LINE.
```

```
DATA I_FIELDCAT TYPE SLIS_T_FIELDCAT_ALV.
```

```
DATA WA_FIELDCAT TYPE SLIS_FIELDCAT_ALV.
```

```
START-OF-SELECTION.
```

```
SELECT * FROM VBAP INTO TABLE IT_VBAP UP TO 20 ROWS.
```

```
END-OF-SELECTION.
```

*--1

WA_FIELDCAT-FIELDNAME = 'VBELN'.

WA_FIELDCAT-SELTEXT_L = 'Sal doc no'.

WA_FIELDCAT-key = 'X'.

APPEND WA_FIELDCAT TO I_FIELDCAT.

CLEAR WA_FIELDCAT.

*-- 2

WA_FIELDCAT-FIELDNAME = 'POSNR'.

WA_FIELDCAT-SELTEXT_L = 'Item no'.

APPEND WA_FIELDCAT TO I_FIELDCAT.

CLEAR WA_FIELDCAT.

WA_FIELDCAT-FIELDNAME = 'MATNR'.

WA_FIELDCAT-SELTEXT_L = 'Material no'.

APPEND WA_FIELDCAT TO I_FIELDCAT.

CLEAR WA_FIELDCAT.

WA_FIELDCAT-FIELDNAME = 'NETWR'.

WA_FIELDCAT-SELTEXT_L = 'Amount'.

APPEND WA_FIELDCAT TO I_FIELDCAT.

CLEAR WA_FIELDCAT.

```

*-- GRID

CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'

EXPORTING

* I_INTERFACE_CHECK          = ''
* I_BYPASSING_BUFFER        = ''
* I_BUFFER_ACTIVE           = ''

  I_CALLBACK_PROGRAM          = SY-REPID

* I_CALLBACK_PF_STATUS_SET   = ''
* I_CALLBACK_USER_COMMAND    = ''

  I_CALLBACK_TOP_OF_PAGE     = 'TOP_OF_PAGE'

* I_CALLBACK_HTML_TOP_OF_PAGE = ''
* I_CALLBACK_HTML_END_OF_LIST = ''

* I_STRUCTURE_NAME          =
* I_BACKGROUND_ID           = ''
* I_GRID_TITLE               =
* I_GRID_SETTINGS           =
* IS_LAYOUT                  =

  IT_FIELDCAT                = I_FIELDCAT

* IT_EXCLUDING               =
* IT_SPECIAL_GROUPS          =
* IT_SORT                     =
* IT_FILTER                   =
* IS_SEL_HIDE                =
* I_DEFAULT                   = 'X'
* I_SAVE                       = ''
* IS_VARIANT                  =
* IT_EVENTS                   =

```

```

* IT_EVENT_EXIT          =
* IS_PRINT                =
* IS_REPREP_ID           =
* I_SCREEN_START_COLUMN  = 0
* I_SCREEN_START_LINE    = 0
* I_SCREEN_END_COLUMN    = 0
* I_SCREEN_END_LINE      = 0
* IT_ALV_GRAPHICS        =
* IT_HYPERLINK           =
* IT_ADD_FIELDCAT        =
* IT_EXCEPT_QINFO      =
* I_HTML_HEIGHT_TOP      =
* I_HTML_HEIGHT_END      =
* IMPORTING
* E_EXIT_CAUSED_BY_CALLER =
* ES_EXIT_CAUSED_BY_USER =

```

TABLES

```
T_OUTTAB          = IT_VBAP
```

* EXCEPTIONS

```
* PROGRAM_ERROR          = 1
```

```
* OTHERS                  = 2
```

.

IF SY-SUBRC <> 0.

```
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
```

```
*   WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
```

ENDIF.

FORM TOP_OF_PAGE.

DATA I_HEADER TYPE SLIS_T_LISTHEADER.

DATA WA_HEADER TYPE SLIS_LISTHEADER.

WA_HEADER-typ = 'H'.

WA_HEADER-info = 'ALV Header'.

APPEND WA_HEADER TO I_HEADER.

*WA_HEADER-typ = 'S'.

*WA_HEADER-info = 'ALV Header'.

*

*APPEND WA_HEADER TO I_HEADER.

*

*WA_HEADER-typ = 'A'.

*WA_HEADER-info = 'ALV Header'.

*

*APPEND WA_HEADER TO I_HEADER.

CALL FUNCTION 'REUSE_ALV_COMMENTARY_WRITE'

EXPORTING

IT_LIST_COMMENTARY = I_HEADER

I_LOGO = 'ENJOYSAP_LOGO'

* I_END_OF_LIST_GRID =

ENDFORM.

REPORT ZNACCLASSICAL.

TABLES: MARA,MARD,MARC,MAKT.

DATA: BEGIN OF SN_ITAB OCCURS 0,

 SN_MATNR LIKE MARD-MATNR,

 SN_WERKS LIKE MARD-WERKS,

 SN_LGORT LIKE MARD-LGORT,

SN_ERSDA LIKE MARA-ERSDA,
SN_ERNAM LIKE MARA-ERNAM,
SN_MAKTX LIKE MAKT-MAKTX,
END OF SN_ITAB.

data : begin of itab3 occurs 0,
 werks like t001l-werks,
 lgort like t001l-lgort,
 lgobe like t001l-lgobe,
end of itab3.

data : begin of itab4 occurs 0,
 werks like t001w-werks,
 name1 like t001w-name1,
end of itab4.

SELECT-OPTIONS: SN_MATNR FOR MARA-MATNR,
 SN_LGORT FOR MARD-LGORT,
 SN_WERKS FOR MARD-WERKS,
 SN_ERSDA FOR MARA-ERSDA.

SELECT MARA~MATNR

 MARD~WERKS

 MARD~LGORT

 MARA~ERSDA

 MARA~ERNAM

 MAKT~MAKTX into table SN_itab from ((MARD inner join MARA on

```
MARA~MATNR eq MARD~MATNR ) inner join MAKT on MARA~MATNR eq MAKT~MATNR
) WHERE MARA~MATNR IN SN_MATNR AND MARD~LGORT IN SN_LGORT AND MARD~WERKS
IN SN_WERKS AND MARA~ERSDA IN SN_ERSDA.
```

```
IF NOT SN_ITAB[] IS INITIAL.
```

```
SELECT WERKS
```

```
    NAME1 FROM T001W INTO TABLE ITAB3 FOR ALL ENTRIES IN SN_ITAB
```

```
WHERE WERKS EQ SN_ITAB-SN_WERKS.
```

```
SELECT WERKS
```

```
    LGOBE FROM T001L INTO TABLE ITAB4 FOR ALL ENTRIES IN SN_ITAB
```

```
WHERE WERKS EQ SN_ITAB-SN_WERKS .
```

```
ENDIF.
```

```
SORT: SN_ITAB,ITAB3,ITAB4.
```

```
LOOP AT SN_ITAB.
```

```
  READ TABLE ITAB3 WITH KEY WERKS = SN_ITAB-SN_WERKS.
```

```
  READ TABLE ITAB4 WITH KEY WERKS = SN_ITAB-SN_WERKS.
```

```
  WRITE:/ SN_ITAB-SN_MATNR,SN_ITAB-SN_MAKTX,SN_ITAB-SN_ERSDA,
```

```
SN_ITAB-SN_ERNAM,SN_ITAB-SN_LGORT,
```

```
SN_ITAB-SN_WERKS,ITAB4-NAME1,ITAB3-LGOBE.
```

```
ENDLOOP.
```

```
*&-----*
```

```
*& Report  ZSD_VATREPORT
```

*&

&-----

& PROGRAM DESCRIPTION:

* DEVELOPER: PRIYA RANJAN

* Functional Consultant : AMOL BIDKAR /Amit Saxena

* CREATION DATE: 27-06-2006.

* Program Description : <VAT REPORT>

&-----

REPORT ZSD_VATREPORT.

TABLES: VBRK , KNA1 , J_1IEXCHDR , J_1IMOCUST , VBRP .

DATA: W_KUNAG LIKE VBRK-KUNAG.

DATA: W_NAME1 LIKE KNA1-NAME1.

DATA: W_J_1ICSTNO LIKE J_1IMOCUST-J_1ICSTNO.

DATA: W_ORT01 LIKE KNA1-ORT01.

DATA: W_REGIO LIKE KNA1-REGIO.

DATA: W_EXNUM LIKE J_1IEXCHDR-EXNUM.

DATA: W_EXDAT LIKE J_1IEXCHDR-EXDAT.

DATA: W_FKIMG LIKE VBRP-FKIMG.

DATA: SUM LIKE VBRP-FKIMG.

DATA: W_KZWI1 LIKE VBRP-KZWI1.

DATA: W_KZWI2 LIKE VBRP-KZWI2.

DATA: W_KZWI3 LIKE VBRP-KZWI3.

DATA: W_KZWI4 LIKE VBRP-KZWI4.

DATA: W_KZWI4_SUM LIKE VBRP-KZWI4.

DATA: W_KZWI4A LIKE VBRP-KZWI4.

DATA: W_KZWI4B LIKE VBRP-KZWI4.

DATA: W_KZWI4C LIKE VBRP-KZWI4.

DATA: W_KZWI5 LIKE VBRP-KZWI5.
DATA: W_KZWI6 LIKE VBRP-KZWI6.
DATA: W_KNUMV1 LIKE KONV-KNUMV.
DATA: W_KNUMV2 LIKE KONV-KNUMV.
DATA: W_KNUMV3 LIKE KONV-KNUMV.
DATA: W_KNUMV4 LIKE KONV-KNUMV.

DATA: BEGIN OF I_VBRK OCCURS 0,

 VBELN LIKE VBRK-VBELN,
 FKDAT LIKE VBRK-FKDAT,
 KUNAG LIKE VBRK-KUNAG,
 NAME1 LIKE KNA1-NAME1,
 FKART LIKE VBRK-FKART,
 KNUMV LIKE VBRK-KNUMV,

END OF I_VBRK.

DATA: BEGIN OF I_HEADER OCCURS 0,

 VBELN LIKE VBRK-VBELN,
 KUNAG LIKE VBRK-KUNAG,
 NAME1 LIKE KNA1-NAME1,
 J_1ICSTNO LIKE J_1IMOCUST-J_1ICSTNO,
 ORT01 LIKE KNA1-ORT01,
 REGIO LIKE KNA1-REGIO,
 EXNUM LIKE J_1IEXCHDR-EXNUM,
 EXDAT LIKE J_1IEXCHDR-EXDAT,
 FKIMG LIKE VBRP-FKIMG,

KZWI1	LIKE VBRP-KZWI1,
KZWI2	LIKE VBRP-KZWI2,
KZWI3	LIKE VBRP-KZWI3,
KZWI4	LIKE VBRP-KZWI4,
KZWI4A	LIKE VBRP-KZWI4,
KZWI4B	LIKE VBRP-KZWI4,
KZWI4C	LIKE VBRP-KZWI4,
KZWI5	LIKE VBRP-KZWI5,
KZWI6	LIKE VBRP-KZWI6,
KNUMV	LIKE VBRK-KNUMV,
KNUMV1	LIKE VBRK-KNUMV,
KNUMV2	LIKE VBRK-KNUMV,
KNUMV3	LIKE VBRK-KNUMV,
KNUMV4	LIKE VBRK-KNUMV,

END OF I_HEADER.

DATA: BEGIN OF I_FINAL OCCURS 0,

VBELN	LIKE VBRK-VBELN,
KUNAG	LIKE VBRK-KUNAG,
NAME1	LIKE KNA1-NAME1,
J_1ICSTNO	LIKE J_1IMOCUST-J_1ICSTNO,
ORT01	LIKE KNA1-ORT01,
REGIO	LIKE KNA1-REGIO,
EXNUM	LIKE J_1IEXCHDR-EXNUM,
EXDAT	LIKE J_1IEXCHDR-EXDAT,
FKIMG	LIKE VBRP-FKIMG,
KZWI1	LIKE VBRP-KZWI1,
KZWI2	LIKE VBRP-KZWI2,
KZWI3	LIKE VBRP-KZWI3,
KZWI4	LIKE VBRP-KZWI4,

KZWI4A LIKE VBRP-KZWI4,
 KZWI4B LIKE VBRP-KZWI4,
 KZWI4C LIKE VBRP-KZWI4,
 KZWI5 LIKE VBRP-KZWI5,
 KZWI6 LIKE VBRP-KZWI6,
 MATNR LIKE VBRP-MATNR,
 CHAPID LIKE J_1IMTCHID-J_1ICHID,
 VGBEL LIKE VBRP-VGBEL,
 ZGP LIKE YWBOD-ZGPNO,
 ZTRNO LIKE ZGPAS-TRNO,

END OF I_FINAL.

DATA : I_KNOV1 LIKE KONV OCCURS 0 WITH HEADER LINE.
 DATA : I_KNOV2 LIKE KONV OCCURS 0 WITH HEADER LINE.
 DATA : I_KNOVC2 LIKE KONV OCCURS 0 WITH HEADER LINE.
 DATA : I_KNOV LIKE KONV OCCURS 0 WITH HEADER LINE.
 DATA : W_MATNR LIKE VBRP-MATNR.
 DATA : W_CHAPID LIKE J_1IMTCHID-J_1ICHID.
 DATA : W_VGBEL LIKE VBRP-VGBEL.
 DATA : W_ZGP LIKE YWBOD-ZGPNO.
 DATA : W_TRNO LIKE ZGPAS-TRNO.

**=====ALV DECLARATION=====

TYPE-POOLS : SLIS.

TYPES: SLIS_T_LISTHEADER TYPE SLIS_LISTHEADER OCCURS 1.

DATA : HEADING TYPE SLIS_T_LISTHEADER WITH HEADER LINE.

```
DATA: GT_FIELDCAT TYPE SLIS_T_FIELDCAT_ALV, "ALV Catalog Table
      GS_FIELDCAT TYPE SLIS_FIELDCAT_ALV.  "ALV Catalog Structure
```

```
DATA : EVENTSTAB      TYPE  SLIS_T_EVENT WITH HEADER LINE,
      GD_TAB_GROUP    TYPE  SLIS_T_SP_GROUP_ALV,
      GD_LAYOUT        TYPE  SLIS_LAYOUT_ALV,
      GD_REPID         LIKE  SY-REPID.
```

```
*-----*
*                SELECTION SCREEN                *
*-----*
```

```
SELECTION-SCREEN BEGIN OF BLOCK B1 .
SELECT-OPTIONS : S_FKDAT FOR VBRK-FKDAT OBLIGATORY.
SELECT-OPTIONS : S_FKRAT FOR VBRK-FKART OBLIGATORY.
SELECT-OPTIONS : S_KUNAG FOR VBRK-KUNAG .
SELECT-OPTIONS : S_VBELN FOR VBRK-VBELN .
SELECTION-SCREEN END OF BLOCK B1.
```

```
**-----**
*                DATA FETCHING                *
**-----**
```

```
AT SELECTION-SCREEN ON S_FKDAT.
```

```
START-OF-SELECTION.
```

```
SELECT VBELN KNUMV FKDAT FKART KUNAG FROM VBRK INTO CORRESPONDING FIELDS OF TABLE I_VBRK
```


WHERE FKDAT IN S_FKDAT AND FKART IN S_FKRAT AND KUNAG IN S_KUNAG AND VBELN IN S_VBELN AND
FKSTO = ' '.

LOOP AT I_VBRK .

I_HEADER-VBELN = I_VBRK-VBELN.

I_HEADER-KNUMV = I_VBRK-KNUMV.

I_HEADER-KUNAG = I_VBRK-KUNAG.

APPEND I_HEADER.

ENDLOOP.

LOOP AT I_HEADER.

CLEAR : W_EXNUM , W_EXDAT .

SELECT SINGLE KUNAG FROM VBRK INTO W_KUNAG WHERE VBELN = I_HEADER-VBELN.

SELECT SINGLE NAME1 FROM KNA1 INTO W_NAME1 WHERE KUNNR = I_HEADER-KUNAG.

SELECT SINGLE J_1ICSTNO FROM J_1IMOCUST INTO W_J_1ICSTNO WHERE KUNNR = I_HEADER-
KUNAG.

SELECT SINGLE ORT01 FROM KNA1 INTO W_ORT01 WHERE KUNNR = I_HEADER-KUNAG.

SELECT SINGLE REGIO FROM KNA1 INTO W_REGIO WHERE KUNNR = I_HEADER-KUNAG.

SELECT SINGLE EXNUM EXDAT FROM J_1IEXCHDR INTO (W_EXNUM , W_EXDAT) WHERE RDOC =
I_HEADER-VBELN.

*Added on 28/08/2006 by Jyoti

IF W_EXNUM = SPACE.

W_EXNUM = 'N/Invoiced'.

ENDIF.

*****QUANTITY

CLEAR : W_FKIMG , SUM.

SELECT FKIMG FROM VBRP INTO SUM WHERE VBELN = I_HEADER-VBELN.

W_FKIMG = SUM + W_FKIMG.

ENDSELECT.

*****BASE VALUE * BED * ECess

CLEAR : W_KZWI1 , W_KZWI2 , W_KZWI3 , I_HEADER-KZWI1 , I_HEADER-KZWI2 , I_HEADER-KZWI3

.

SELECT KWERT FROM KONV INTO W_KZWI1 WHERE KNUMV = I_HEADER-KNUMV AND KSCHL = 'ZASS'

.

I_HEADER-KZWI1 = I_HEADER-KZWI1 + W_KZWI1.

ENDSELECT.

READ TABLE S_FKRAT WITH KEY LOW = 'ZDEM' .

IF SY-SUBRC = 0.

I_HEADER-KZWI2 = 0 .

I_HEADER-KZWI3 = 0.

ELSE.

READ TABLE S_FKRAT WITH KEY HIGH = 'ZDEM' .

IF SY-SUBRC NE 0 .

```
SELECT KWERT FROM KONV INTO W_KZWI2 WHERE KNUMV = I_HEADER-KNUMV AND KSCHL =  
'JEXP' .
```

```
I_HEADER-KZWI2 = I_HEADER-KZWI2 + W_KZWI2.
```

```
ENDSELECT.
```

```
SELECT KWERT FROM KONV INTO W_KZWI3 WHERE KNUMV = I_HEADER-KNUMV AND KSCHL =  
'JECS' .
```

```
I_HEADER-KZWI3 = I_HEADER-KZWI3 + W_KZWI3.
```

```
ENDSELECT.
```

```
ELSEIF SY-SUBRC NE 0.
```

```
I_HEADER-KZWI2 = 0 .
```

```
I_HEADER-KZWI3 = 0.
```

```
ENDIF.
```

```
ENDIF.
```

```
***VAT 4%
```

```
***LOGIC CHANGE BY AMIT SAXENA ON 02/08/2006
```

```
DATA : SUM_KZWI4 TYPE KZWI4.
```

```
CLEAR : I_KNOV1-KWERT , SUM_KZWI4.
```

```
SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_KNOV1 WHERE KNUMV = I_HEADER-  
KNUMV AND KSCHL = 'JIVP' AND KBETR = '40'.
```

```
LOOP AT I_KNOV1 .
```

```
SUM_KZWI4 = I_KNOV1-KWERT + SUM_KZWI4 .
```

ENDLOOP.

I_HEADER-KZWI4 = SUM_KZWI4.

****VAT 12.5 %

****LOGIC CHANGE BY AMIT SAXENA ON 02/08/2006

CLEAR : I_KNOV2-KWERT , SUM_KZWI4.

SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_KNOV2 WHERE KNUMV = I_HEADER-KNUMV AND KSCHL = 'JIVP' AND KBETR = '125'.

LOOP AT I_KNOV2 .

SUM_KZWI4 = I_KNOV2-KWERT + SUM_KZWI4 .

ENDLOOP.

I_HEADER-KZWI4A = SUM_KZWI4.

****CST 2%

****LOGIC CHANGE BY AMIT SAXENA ON 02/08/2006

CLEAR : I_KNOVC2-KWERT , SUM_KZWI4.

SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_KNOVC2 WHERE KNUMV = I_HEADER-KNUMV AND KSCHL = 'JIVC' AND KBETR = '20'.

LOOP AT I_KNOVC2 .

SUM_KZWI4 = I_KNOVC2-KWERT + SUM_KZWI4 .

```

ENDLOOP.

I_HEADER-KZWI4B = SUM_KZWI4.

****CST 4%
****LOGIC CHANGE BY AMIT SAXENA ON 02/08/2006

CLEAR : I_KNOV-KWERT , SUM_KZWI4.

SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_KNOV WHERE KNUMV = I_HEADER-
KNUMV AND KSCHL = 'JIVC' AND KBETR = '40'.

LOOP AT I_KNOV .

SUM_KZWI4 = I_KNOV-KWERT + SUM_KZWI4 .

ENDLOOP.

I_HEADER-KZWI4C = SUM_KZWI4.

****FREIGHT

DATA : SUM_KZWI5 TYPE KZWI5.

CLEAR : W_KZWI5 ,SUM_KZWI5 , I_HEADER-KZWI5 .

SELECT KWERT FROM KONV INTO W_KZWI5 WHERE KNUMV = I_HEADER-KNUMV AND KSCHL = 'ZF00'
AND KPOSN NE 0.

SUM_KZWI5 = SUM_KZWI5 + W_KZWI5.

ENDSELECT.

I_HEADER-KZWI5 = SUM_KZWI5.

```

***TOTAL BILL AMOUNT

DATA : SUM_KZWI6 TYPE KZWI6.

DATA : W_KWERT TYPE KZWI6.

CLEAR : W_KZWI6 ,SUM_KZWI6 .

***LOGIC CHANGE BY AMIT SAXENA ON 02/08/2006

DATA : BEGIN OF I_TOTAL OCCURS 0 ,

KNUMV LIKE KONV-KNUMV,

KWERT LIKE KONV-KWERT,

KPOSN LIKE KONV-KPOSN,

END OF I_TOTAL.

READ TABLE S_FKRAT WITH KEY LOW = 'ZDEM' .

IF SY-SUBRC = 0 .

CLEAR : SUM_KZWI6 .

SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_TOTAL WHERE KNUMV =
I_HEADER-KNUMV AND

(KSCHL = 'JIVC' OR KSCHL = 'ZASS' OR KSCHL = 'JIVP' OR KSCHL = 'ZF00').

LOOP AT I_TOTAL WHERE KPOSN NE 0 .

SUM_KZWI6 = I_TOTAL-KWERT + SUM_KZWI6 .

ENDLOOP.

I_HEADER-KZWI6 = SUM_KZWI6.

ELSEIF SY-SUBRC NE 0.

```

READ TABLE S_FKRAT WITH KEY HIGH = 'ZDEM' .

IF SY-SUBRC NE 0.

    CLEAR : SUM_KZWI6 .

    SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_TOTAL WHERE KNUMV
= I_HEADER-KNUMV AND

        ( KSCHL = 'JIVC' OR KSCHL = 'ZASS' OR KSCHL = 'JEXP' OR KSCHL = 'JECS' OR
KSCHL = 'JIVP' OR KSCHL = 'ZF00' ).

    LOOP AT I_TOTAL WHERE KPOSN NE 0 .

        SUM_KZWI6 = I_TOTAL-KWERT + SUM_KZWI6 .

    ENDLOOP.

    I_HEADER-KZWI6 = SUM_KZWI6.

ELSEIF SY-SUBRC EQ 0.

    CLEAR : SUM_KZWI6 .

    SELECT * FROM KONV INTO CORRESPONDING FIELDS OF TABLE I_TOTAL WHERE KNUMV
= I_HEADER-KNUMV AND

        ( KSCHL = 'JIVC' OR KSCHL = 'ZASS' OR KSCHL = 'JIVP' OR KSCHL = 'ZF00' ).

    LOOP AT I_TOTAL WHERE KPOSN NE 0 .

        SUM_KZWI6 = I_TOTAL-KWERT + SUM_KZWI6 .

    ENDLOOP.

    I_HEADER-KZWI6 = SUM_KZWI6.

ENDIF.

ENDIF.

***VALUE TRANSFER FROM VARIABLE INTO I_HEADER

I_HEADER-NAME1 = W_NAME1.

```

```
I_HEADER-J_1ICSTNO = W_J_1ICSTNO.  
I_HEADER-ORT01 = W_ORT01.  
I_HEADER-REGIO = W_REGIO .  
I_HEADER-EXNUM = W_EXNUM.  
I_HEADER-EXDAT = W_EXDAT.  
I_HEADER-FKIMG = W_FKIMG.
```

```
MODIFY I_HEADER.
```

```
ENDLOOP.
```

```
END-OF-SELECTION.
```

```
***TABLE I_FINAL FOR FINAL OUTPUT ALV VALUE
```

```
*IF I_HEADER-EXNUM EQ ' '.
```

```
*ENDIF.
```

```
LOOP AT I_HEADER.
```

```
MOVE I_HEADER-VBELN TO I_FINAL-VBELN.  
MOVE I_HEADER-KUNAG TO I_FINAL-KUNAG.  
MOVE I_HEADER-NAME1 TO I_FINAL-NAME1.  
MOVE I_HEADER-J_1ICSTNO TO I_FINAL-J_1ICSTNO.  
MOVE I_HEADER-ORT01 TO I_FINAL-ORT01.  
MOVE I_HEADER-REGIO TO I_FINAL-REGIO.  
MOVE I_HEADER-EXNUM TO I_FINAL-EXNUM.  
MOVE I_HEADER-EXDAT TO I_FINAL-EXDAT.  
MOVE I_HEADER-FKIMG TO I_FINAL-FKIMG.  
MOVE I_HEADER-KZWI1 TO I_FINAL-KZWI1.  
MOVE I_HEADER-KZWI2 TO I_FINAL-KZWI2.
```



```

MOVE I_HEADER-KZWI3      TO I_FINAL-KZWI3.
MOVE I_HEADER-KZWI4      TO I_FINAL-KZWI4.
MOVE I_HEADER-KZWI4A     TO I_FINAL-KZWI4A.
MOVE I_HEADER-KZWI4B     TO I_FINAL-KZWI4B.
MOVE I_HEADER-KZWI4C     TO I_FINAL-KZWI4C.
MOVE I_HEADER-KZWI5      TO I_FINAL-KZWI5.
MOVE I_HEADER-KZWI6      TO I_FINAL-KZWI6.

APPEND I_FINAL.

ENDLOOP.

DELETE I_FINAL WHERE EXNUM = SPACE.

LOOP AT I_FINAL.
  SELECT SINGLE MATNR VGBEL FROM VBRP INTO (W_MATNR,W_VGBEL) WHERE VBELN = I_FINAL-VBELN.
  MOVE W_MATNR TO I_FINAL-MATNR.
  MOVE W_VGBEL TO I_FINAL-VGBEL.
  MODIFY I_FINAL.
ENDLOOP.

LOOP AT I_FINAL.
  SELECT SINGLE J_1ICHID FROM J_1IMTCHID INTO W_CHAPID WHERE MATNR = I_FINAL-MATNR.
  MOVE W_CHAPID TO I_FINAL-CHAPID.
  MODIFY I_FINAL.
ENDLOOP.

LOOP AT I_FINAL.
  SELECT SINGLE ZGPN0 FROM YWBOD INTO W_ZGP WHERE VBELN = I_FINAL-VGBEL.
  MOVE W_ZGP TO I_FINAL-ZGP.
  MODIFY I_FINAL.

```

ENDLOOP.

LOOP AT I_FINAL.

SELECT SINGLE TRNO FROM ZGPAS INTO W_TRNO WHERE ZGPNO = I_FINAL-ZGP.

MOVE W_TRNO TO I_FINAL-ZTRNO.

MODIFY I_FINAL.

ENDLOOP.

**=====ALV GRID DISPLAY=====*"change on 08/08/06

*

PERFORM BUILT_FIELD_CATALOG.

GD_REPID = SY-REPID.

CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'

EXPORTING

I_CALLBACK_PROGRAM = GD_REPID

I_BACKGROUND_ID = 'ALV_BACKGROUND'

I_GRID_TITLE = 'SD VAT REPORT'

IT_FIELDCAT = GT_FIELDCAT[]

I_SAVE = 'X'

TABLES

T_OUTTAB = I_FINAL.

*&-----

*

*& Form BUILT_FIELD_CATALOG

*&-----

*

* text

*-----

*

FORM BUILT_FIELD_CATALOG.

GS_FIELDCAT-COL_POS = '1'.
GS_FIELDCAT-FIELDNAME = 'VBELN'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'BILL NO'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '1'.
GS_FIELDCAT-FIELDNAME = 'MATNR'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'Material Number'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '1'.
GS_FIELDCAT-FIELDNAME = 'CHAPID'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'Chapter ID'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '2'.
GS_FIELDCAT-FIELDNAME = 'KUNAG'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'CUSTOMER NO'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '3'.
GS_FIELDCAT-FIELDNAME = 'NAME1'.

```
GS_FIELDCAT-OUTPUTLEN      = 18.  
GS_FIELDCAT-SELTEXT_L     = 'CUSTOMER NAME'.  
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS       = '4'.  
GS_FIELDCAT-FIELDNAME     = 'J_1ICSTNO'.  
GS_FIELDCAT-OUTPUTLEN     = 18.  
GS_FIELDCAT-SELTEXT_L     = 'TIN / CST / RC'.  
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS       = '5'.  
GS_FIELDCAT-FIELDNAME     = 'ORT01'.  
GS_FIELDCAT-OUTPUTLEN     = 18.  
GS_FIELDCAT-SELTEXT_L     = 'CITY'.  
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS       = '6'.  
GS_FIELDCAT-FIELDNAME     = 'REGIO'.  
GS_FIELDCAT-OUTPUTLEN     = 18.  
GS_FIELDCAT-SELTEXT_L     = 'STATE'.  
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS       = '7'.  
GS_FIELDCAT-FIELDNAME     = 'EXNUM'.  
GS_FIELDCAT-OUTPUTLEN     = 18.  
GS_FIELDCAT-SELTEXT_L     = 'EXCISE INVOICE NO'.  
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS      = '8'.
GS_FIELDCAT-FIELDNAME    = 'EXDAT'.
GS_FIELDCAT-OUTPUTLEN    = 18.
* GS_FIELDCAT-SELTEXT_L  = 'BILL DATE'.
GS_FIELDCAT-SELTEXT_L    = 'INVOICE DATE'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS      = '9'.
GS_FIELDCAT-FIELDNAME    = 'FKIMG'.
GS_FIELDCAT-OUTPUTLEN    = 18.
GS_FIELDCAT-SELTEXT_L    = 'QUANTITY'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS      = '10'.
GS_FIELDCAT-FIELDNAME    = 'KZWI1'.
GS_FIELDCAT-OUTPUTLEN    = 18.
GS_FIELDCAT-SELTEXT_L    = 'BASE VALUE'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS      = '11'.
GS_FIELDCAT-FIELDNAME    = 'KZWI2'.
GS_FIELDCAT-OUTPUTLEN    = 18.
GS_FIELDCAT-SELTEXT_L    = 'BED'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.
```

```
GS_FIELDCAT-COL_POS      = '12'.
GS_FIELDCAT-FIELDNAME    = 'KZWI3'.
```

GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'ECESS'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '13'.
GS_FIELDCAT-FIELDNAME = 'KZWI4'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'VAT 4%'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '14'.
GS_FIELDCAT-FIELDNAME = 'KZWI4A'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'VAT 12.5%'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '15'.
GS_FIELDCAT-FIELDNAME = 'KZWI4B'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'CST 2%'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '16'.
GS_FIELDCAT-FIELDNAME = 'KZWI4C'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'CST 4%'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '17'.
GS_FIELDCAT-FIELDNAME = 'KZWI5'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'FREIGHT'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '18'.
GS_FIELDCAT-FIELDNAME = 'KZWI6'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'TOTAL BILL AMOUNT'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

GS_FIELDCAT-COL_POS = '18'.
GS_FIELDCAT-FIELDNAME = 'ZTRNO'.
GS_FIELDCAT-OUTPUTLEN = 18.
GS_FIELDCAT-SELTEXT_L = 'Truck No.'.
APPEND GS_FIELDCAT TO GT_FIELDCAT.

ENDFORM. "BUILT_FIELD_CATALOG

&-----

*& REPORT ZSDREP. *

*& Created On : 19/10/2006 *

*& Company : Crystal Phosphates Ltd. *

*& Author : Navneet Kumar *

```
*&-----*
*& Description : SD Cycle Report *
*&-----*
```

```
REPORT zsdrep LINE-SIZE 700 NO STANDARD PAGE HEADING . "#EC *
```

```
*&-----*
*& Table Decleration *
*&-----*
```

```
TABLES : vbak,      " Sales Document: Header Data
          zsdtab,
          vbap,      " Sales Document: Item Data
          vbkd,      " Sales Document: Business Data
          vbpa,      " Sales Document: Partner
          konp,      " Conditions (Item)
          konv,      " Conditions (Transaction Data)
          likp,      " SD Document: Delivery Header Data
          lips,      " SD document: Delivery: Item data
          vbrk,      " Billing Document: Header Data
          vbrp,      " Billing Document: Item Data
          vbfa,      " Sales Document Flow
          makt,      " Material Descriptions
          tvko,      " Organizational Unit: Sales Organizations
          kna1,      " General Data in Customer Master
          adrc,      " Addresses (Business Address Services)
          j_1iexchr, " Excise invoice header detail
          j_1isrgrps, " Excise Document Series
          j_1iexgrps, " Excise Groups
          tpart,     " Partner function
          t005t.     " Country Names
```



```
*&-----*
*& Selection Screen *
*&-----*
```

```
SELECTION-SCREEN : BEGIN OF BLOCK b3 WITH FRAME TITLE text-003.
SELECT-OPTIONS : s_kunnr1 FOR kna1-kunnr,      " Sales Person Code
                 s_AUDAT  FOR vbak-AUDAT,      " Document Date.
                 s_FKART  FOR vbrk-FKART.      " Billing Type.
SELECTION-SCREEN : END OF BLOCK b3.
```

```
SELECTION-SCREEN : BEGIN OF BLOCK b1 WITH FRAME TITLE text-001.
SELECT-OPTIONS : s_bukrs FOR vbak-bukrs_vf,    " Company Code
                 s_vkorg FOR vbak-vkorg,       " Sales Organization
                 s_vtweg FOR vbak-vtweg,       " Distribution Channel
                 s_spart FOR vbak-spart,       " Division
                 s_matnr FOR vbap-matnr,       " Material
                 s_kunnr FOR vbak-kunnr,       " Sold to party
                 s_taxk1 FOR vbak-taxk1,       " Form Type Used
                 s_werks FOR vbap-werks,       " Plant
                 s_gsber FOR vbrp-gsber.       " Business Area
SELECTION-SCREEN : END OF BLOCK b1.
```

```
*&-----*
*& Internal Table Decleration *
*&-----*
```

```
DATA : BEGIN OF i_vbak OCCURS 0,                "#EC *
```

kunnr	LIKE vbak-kunnr,	" Sold to party
vbtyp	LIKE vbak-vbtyp,	
vkorg	LIKE vbak-vkorg,	" Sales Organization
vtweg	LIKE vbak-vtweg,	" Distribution Channel
spart	LIKE vbak-spart,	" Division
bukrs	LIKE vbak-bukrs_vf,	" Company Code
vkbur	LIKE vbak-vkbur,	" Sales office
vkgrp	LIKE vbak-vkgrp,	" Sales group
vbeln	LIKE vbak-vbeln,	" Sales Order No
auart	LIKE vbak-auart,	" Sales Order Type
taxk1	LIKE vbak-taxk1,	" Form Type Used
erdat	LIKE vbak-erdat,	" Sales Order Date
augru	LIKE vbak-augru,	" Order Reason #####
vgbel	LIKE vbak-vgbel,	" ####
gsber	LIKE vbrp-gsber,	" Business Area #####
matnr	LIKE vbap-matnr,	" Material Number
posnr	LIKE vbap-posnr,	" Sales Document Item
kwmeng	LIKE vbap-kwmeng,	" Sales Order Matrial Quantity
zieme	LIKE vbap-zieme,	" UoM
route	LIKE vbap-route,	" Route
werks	LIKE vbap-werks,	" Plant
netwr	LIKE vbap-netwr,	" Net value of the order item in document
currency(cr. note Amt.)	#####	
vstel	LIKE vbap-vstel,	" Shipping Point
knumh	LIKE vbap-knumh,	" Number of condition record
audat	LIKE vbak-audat,	" Dr note date
c_vbeln	LIKE vbak-vbeln,	" Credit Sales Order Type #####
d_vbeln	LIKE vbak-vbeln,	" Debit Sales Order Type #####
ex_vbeln	LIKE vbrp-vbeln,	" Ref Doc No.
shkunnr	LIKE vbpa-kunnr,	" Ship to Party
prkunnr	LIKE vbpa-kunnr,	"
bstkd	LIKE vbkd-bstkd,	" Purchase Order Number

bstdk	LIKE vbkd-bstdk,	" Purchase Order Date
inco1	LIKE vbkd-inco1,	" Incoterms (part 1)
inco2	LIKE vbkd-inco2,	" Incoterms (part 2)
zterm	LIKE vbkd-zterm,	" Payment Terms
crfkdat	LIKE vbkd-fkdat,	" Cr Note Date #####
frno(4)	TYPE n,	" Form Number
maktx	LIKE makt-maktx,	" Material Description
ntgew	LIKE likp-ntgew,	" Delivery Quantity(net weight)
dvbeln	LIKE lips-vbeln,	" Delivery Number
bldat	LIKE likp-bldat,	" Delivery Date
lfdat	LIKE likp-lfdat,	" Delivery Date ####
lfart	LIKE likp-lfart,	" Delivery Type
lfimg	LIKE lips-lfimg,	
ivbeln	LIKE vbrk-vbeln,	" Invoice Number
knumv	LIKE vbrk-knumv,	
fkdat	LIKE vbrk-fkdat,	" Billing Date
fkart	LIKE vbrk-fkart,	" Billing Type
exnum	LIKE j_1iexchr-exnum,	" Official Excise Document Number ####
exdat	LIKE j_1iexchr-exdat,	" Excise Document Date ####
exgrp	LIKE j_1iexchr-exgrp,	" Excise Group ####
srgrp	LIKE j_1iexchr-srgrp,	" Excise Document Series Group ####
chapid	LIKE j_1iexcdtl-chapid,	" Chapter ID ###
vbeln	LIKE vbfa-vbeln,	" Subsequent sales and distribution document ####
vbeln_m	LIKE vbfa-vbeln,	" Subsequent sales and distribution document ####
name1	LIKE adrc-name1,	" Address of Sold-to-Party ###
name2	LIKE adrc-name2,	" Address of Sold-to-Party ###
city1	LIKE adrc-city1,	" Address of Sold-to-Party ###
street	LIKE adrc-street,	" Address of Sold-to-Party ###
post_code1	LIKE adrc-post_code1,	" Address of Sold-to-Party ###
country	LIKE t005t-landx,	
cr_vbeln	LIKE vbak-vbeln,	
cr_netwr	LIKE vbap-netwr,	

```

vebln2    LIKE vbrp-vbeln,          "^^^^^^^^^^
name_sales LIKE kna1-name1,
form      LIKE zsdtab-form,
B001     LIKE KONV-KBETR,
JEXQ     LIKE KONV-KBETR,
JEXT     LIKE KONV-KBETR,
JCES     LIKE KONV-KBETR,
JIN7     LIKE KONV-KBETR,
JIN8     LIKE KONV-KBETR,
ZDCP     LIKE KONV-KBETR,
ZDBP     LIKE KONV-KBETR,
ZDFR     LIKE KONV-KBETR,
ZDER     LIKE KONV-KBETR,
ZTCS     LIKE KONV-KBETR,
ZPAC     LIKE KONV-KBETR,
ZFR1     LIKE KONV-KBETR,
ZPR0     LIKE KONV-KBETR,
ZCRT     LIKE KONV-KBETR,
JEXP     LIKE KONV-KBETR,
ZJD3     LIKE KONV-KBETR,
JCEX     LIKE KONV-KBETR,
ZSFR     LIKE KONV-KBETR,
ZAIR     LIKE KONV-KBETR,
ZINS     LIKE KONV-KBETR,
ZCHA     LIKE KONV-KBETR,
JTRD     LIKE KONV-KBETR,
JCST     LIKE KONV-KBETR,
JLST     LIKE KONV-KBETR,
JIN6     LIKE KONV-KBETR,
JFCG     LIKE KONV-KBETR,
ZJDI     LIKE KONV-KBETR,
ZJD2     LIKE KONV-KBETR,

```

```
ZFRE    LIKE KONV-KBETR,  
ZFRO    LIKE KONV-KBETR,  
END OF i_vbak.
```

```
DATA : wa_fin LIKE i_vbak.
```

```
DATA : Begin of condition OCCURS 0,  
      knumv  LIKE konv-knumv,  
      kschl  LIKE konv-kschl,  
      kbetr  LIKE konv-kbetr,  
END OF condition.
```

```
DATA : BEGIN OF i_tpart OCCURS 0,  
      parvw  LIKE tpart-parvw,  
      vtext  LIKE tpart-vtext,  
END OF i_tpart.
```

```
DATA : BEGIN OF x_tpart OCCURS 0,  
      parvw  LIKE tpart-parvw,  
      vtext  LIKE tpart-vtext,  
END OF x_tpart.
```

```
DATA : BEGIN OF i_kna1 OCCURS 0,                                     "#EC *  
      kunnr  LIKE kna1-kunnr,  
      name1  LIKE kna1-name1,  
END OF i_kna1.
```

```
DATA : BEGIN OF i_vbpa OCCURS 0,                                     "#EC *  
      kunnr  LIKE vbpa-kunnr,  
      vbeln  LIKE vbpa-vbeln,  
      parvw  LIKE vbpa-parvw,  
END OF i_vbpa.
```

DATA : BEGIN OF x_vbpa OCCURS 0, "#EC *
 kunnr LIKE vbpa-kunnr,
 parvw LIKE vbpa-parvw,
 vbeln LIKE vbpa-vbeln,
END OF x_vbpa.

DATA : BEGIN OF i_vbfa OCCURS 0, "#EC *
 vbeln LIKE vbfa-vbeln,
 vbelv LIKE vbfa-vbelv,
END OF i_vbfa.

DATA : BEGIN OF i_makt OCCURS 0, "#EC *
 maktx LIKE makt-maktx,
 matnr LIKE makt-matnr,
END OF i_makt.

DATA : BEGIN OF i_vbkd OCCURS 0, "#EC *
 bstkd LIKE vbkd-bstkd,
 bstdk LIKE vbkd-bstdk,
 inco1 LIKE vbkd-inco1,
 inco2 LIKE vbkd-inco2,
 zterm LIKE vbkd-zterm,
 fkdat LIKE vbkd-fkdat,
 vbeln LIKE vbkd-vbeln,
END OF i_vbkd.

DATA : BEGIN OF x_likp OCCURS 0, "#EC *
 lfdat LIKE likp-lfdat,
 lfart LIKE likp-lfart,

lfimg LIKE lips-lfimg,
vgbel LIKE lips-vgbel,
matnr LIKE lips-matnr,
vbeln LIKE lips-vbeln,
END OF x_likp.

DATA : BEGIN OF x_vbfa OCCURS 0, "#EC *
vbeln LIKE vbfa-vbeln,
vbelv LIKE vbfa-vbelv,
END OF x_vbfa.

DATA : BEGIN OF i_lips OCCURS 0, "#EC *
lfimg LIKE lips-lfimg,
matnr LIKE lips-matnr,
vbeln LIKE lips-vbeln,
vgbel LIKE vbrp-vgbel,
vbeln2 LIKE vbrp-vbeln,
END OF i_lips.

DATA : BEGIN OF i_vbrk OCCURS 0, "#EC *
vbeln LIKE vbrk-vbeln,
fkdat LIKE vbrk-fkdat,
fkart LIKE vbrk-fkart,
knumv LIKE vbrk-knumv,
vkorg LIKE vbrk-vkorg,
END OF i_vbrk.

DATA : BEGIN OF i_vbrp OCCURS 0, "#EC *
gsber LIKE vbrp-gsber,
spart LIKE vbrp-spart,
vbeln LIKE vbrp-vbeln,
END OF i_vbrp.

```
DATA : BEGIN OF x_vbak OCCURS 0,
      kunnr LIKE vbak-kunnr,           "#EC *
      vbtyp LIKE vbak-vbtyp,
      vbeln LIKE vbak-vbeln,
      audat LIKE vbak-audat,
END OF x_vbak.
```

```
DATA : BEGIN OF i_adrc OCCURS 0,           "#EC *
      name1  LIKE adrc-name1,
      name2  LIKE adrc-name2,
      city1  LIKE adrc-city1,
      street LIKE adrc-street,
      post_code1 LIKE adrc-post_code1,
      kunnr  LIKE kna1-kunnr,
END OF i_adrc.
```

```
DATA : BEGIN OF i_j_1iexcdtl OCCURS 0,           "#EC *
      chapid LIKE j_1iexcdtl-chapid,
      matnr  LIKE j_1iexcdtl-matnr,
END OF i_j_1iexcdtl.
```

```
DATA : BEGIN OF i_j_1iexchdr OCCURS 0,
      kunag  LIKE j_1iexchdr-kunag,
      werks  LIKE j_1iexchdr-werks,
      exnum  LIKE j_1iexchdr-exnum,
      exdat  LIKE j_1iexchdr-exdat,
      exgrp  LIKE j_1iexchdr-exgrp,
      srgrp  LIKE j_1iexchdr-srgrp,
      rdoc   LIKE j_1iexchdr-rdoc,
```


END OF i_j_1iexchr.

DATA : Begin of i_join OCCURS 0,
vbeln LIKE vbrp-vbeln,
gsber LIKE vbrp-gsber,
vgbel LIKE lips-vgbel,
end of i_join.

DATA : Begin of i_sdtab OCCURS 0.
include structure zsdtab.

DATA : end of i_sdtab.

&-----
*& Work Area Decleration *
&-----

DATA : wa_vbak LIKE i_vbak,
wa_sdtab LIKE i_sdtab,
wa_xvbak LIKE x_vbak,
wa_vbpa LIKE i_vbpa,
wa_xvbpa LIKE x_vbpa,
wa_makt LIKE i_makt,
wa_vbkd LIKE i_vbkd,
wa_vbrk LIKE i_vbrk,
wa_xlikp LIKE x_likp,
wa_vbrp LIKE i_vbrp,
wa_vbfa LIKE i_vbfa,
wa_xvbfa LIKE x_vbfa,
wa_adrc LIKE i_adrc,
wa_j_1iexcdtl LIKE i_j_1iexcdtl,
wa_j_1iexchr LIKE i_j_1iexchr,
wa_xtpart LIKE x_tpart,

```
wa_tpart LIKE i_tpart,  
wa_kna1  LIKE i_kna1,  
wa_join  LIKE i_join,  
wa_cond  LIKE condition.
```

```
*&-----*  
*& Global Data Decleration *  
*&-----*
```

```
DATA : cursorfield(20).
```

```
*&-----*  
*& Constants *  
*&-----*
```

```
DATA : c_c      TYPE c VALUE 'C',  
      c_cc     TYPE c VALUE 'K',  
      c_cd     TYPE c VALUE 'L',  
      c_j      TYPE c VALUE 'J',  
      c_m      TYPE c VALUE 'M',  
      c_sh(2)  TYPE c VALUE 'WE',  
      cr(4)    TYPE c VALUE 'G2',  
      dr(4)    TYPE c VALUE 'L2',  
      total    LIKE vbap-kwmeng VALUE 0,  
      total2   LIKE lips-lfimg VALUE 0,  
      total3   LIKE KONV-KBETR VALUE 0.
```

```
*&-----*  
*& Initialization *  
*&-----*
```

```
START-OF-SELECTION.
```

```

PERFORM logic.

PERFORM modify_table.

PERFORM pricing_cond.

END-OF-SELECTION.

PERFORM display.

*&-----*
*& Form  logic
*&-----*
*  Description : Logic for data Extraction
*-----*

FORM logic .

  SORT i_vbak BY vbeln.

  SELECT a~vbtyp a~vkorg a~vtweg a~spart a~bukrs_vf a~vkbur a~vkgrp a~vbeln
a~auart a~kunnr a~taxk1 a~erdat a~augru a~gsber a~vgbel b~matnr b~posnr b~kwmeng b~zieme
b~route b~werks b~netwr b~vstel b~knumh

INTO corresponding fields of i_vbak FROM vbak AS a

  INNER JOIN

  vbap AS b ON a~vbeln = b~vbeln

  WHERE ( a~vbtyp = c_c OR a~vbtyp = c_cc OR a~vbtyp = c_cd )
AND

  a~bukrs_vf IN s_bukrs AND

  a~vkorg IN s_vkorg AND

  a~vtweg IN s_vtweg AND

  a~spart IN s_spart AND

  a~kunnr IN s_kunnr AND

  a~taxk1 IN s_taxk1 AND

  a~audat IN s_audat AND

  b~matnr IN s_matnr AND

  b~werks IN s_werks .

```

append i_vbak.

clear i_vbak.

endselect.

&-----

*& VBFA Entry *

&-----

SORT i_vbak BY vbeln.

SELECT vbeln vbelv FROM vbfa INTO TABLE i_vbfa FOR ALL ENTRIES IN i_vbak

WHERE vbelv = i_vbak-vbeln AND

posnn = i_vbak-posnr AND

vbtyp_n = c_j.

SELECT vbeln vbelv FROM vbfa INTO TABLE x_vbfa FOR ALL ENTRIES IN i_vbak

WHERE vbelv = i_vbak-vbeln AND

posnn = i_vbak-posnr AND

vbtyp_n = c_m.

&-----

*& LIKP & LIPS Entry *

&-----

loop at i_vbfa.

SELECT a~lfdat a~lfart b~lfimg b~vgbel b~matnr b~vbeln " c~vbeln

INTO corresponding fields of x_likp FROM likp AS a

INNER JOIN

lips AS b ON a~vbeln = b~vbeln

WHERE

a~vbeln = i_vbfa-vbeln.

append x_likp.

clear x_likp.

endselect.

endloop.

```
*&-----*  
*& X_VBAK Entry *  
*&-----*
```

```
SELECT kunnr audat vbtyp vbeln FROM vbak INTO CORRESPONDING FIELDS OF x_vbak  
WHERE vbtyp = c_cc OR  
vbtyp = c_cd.
```

APPEND X_VBAK.

CLEAR X_VBAK.

ENDSELECT.

```
*&-----*  
*& VBPA Entry *  
*&-----*
```

SORT i_vbak BY vbeln.

```
SELECT kunnr vbeln parvw FROM vbpa INTO TABLE i_vbpa FOR ALL ENTRIES IN i_vbak  
WHERE vbeln = i_vbak-vbeln AND  
parvw = c_sh.
```

```
SELECT kunnr parvw vbeln FROM vbpa INTO TABLE x_vbpa FOR ALL ENTRIES IN i_vbak  
WHERE vbeln = i_vbak-vbeln AND  
KUNNR IN S_KUNNR1 AND  
( parvw = 'ZA' OR  
parvw = 'ZB' OR  
parvw = 'ZC' ).
```

```
*&-----*
```

```

*& MAKT Entry *
*&-----*
SORT i_vbak BY matnr.

SELECT  maktx matnr FROM makt INTO TABLE i_makt FOR ALL ENTRIES IN i_vbak
WHERE  matnr = i_vbak-matnr AND
      spras = sy-langu.

*&-----*
*& VBKD Entry *
*&-----*
SORT i_vbak BY vbeln.

SELECT  bstkd bstkd inco1 inco2 zterm fkdat vbeln FROM vbkd INTO TABLE i_vbkd FOR ALL
ENTRIES IN i_vbak

WHERE  vbeln = i_vbak-vbeln.

*&-----*
*& j_1iexchr Entry *
*&-----*
SORT i_vbak BY kunnr.

SELECT  kunag werks exnum exdat exgrp srgrp rdoc FROM j_1iexchr
INTO TABLE i_j_1iexchr FOR ALL ENTRIES IN i_vbak
WHERE  kunag = i_vbak-kunnr AND
      ( TRNTYP = 'DLFC' OR TRNTYP = 'ARE1' OR TRNTYP = 'ARE3' ).

*&-----*
*& j_1iexcdtl Entry *
*&-----*
SORT i_vbak BY werks.

SELECT  chapid matnr FROM j_1iexcdtl INTO TABLE i_j_1iexcdtl FOR ALL ENTRIES IN i_vbak
WHERE  matnr = i_vbak-matnr.

```

&-----

*& VBRP(i_join) Entry *

&-----

loop at i_vbfa.

SELECT a~vbeln a~gsber b~vgbel into corresponding fields of i_join from

vbrp as a inner join

lips as b

on a~vgbel = b~vbeln

WHERE

b~vbeln = i_vbfa-vbeln

AND a~gsber IN s_gsber.

append i_join.

clear i_join.

endselect.

endloop.

&-----

*& VBRK Entry *

&-----

SORT i_vbak BY vbeln.

SELECT vbeln fkdat fkart knumv vkorg FROM vbrk INTO TABLE i_vbrk FOR ALL ENTRIES IN
x_vbfa

WHERE vbeln = x_vbfa-vbeln AND

fkart IN s_fkart.

&-----

*& ADRC Entry *

&-----

SELECT a~name1 a~name2 a~city1 a~street a~post_code1 b~kunnr INTO TABLE i_adrc

FROM adrc AS a

```

INNER JOIN

kna1 AS b

ON a~addrnumber = b~adrnr

WHERE b~kunnr IN s_kunnr.

```

```

*&-----*
*& i_kna1 Entry *
*&-----*

```

```

SELECT kunnr name1 FROM kna1 INTO table i_kna1

WHERE kunnr IN s_kunnr1.

```

```

ENDFORM. " logic

```

```

*&-----*
*& Form modify_table
*&-----*
* Description : Modify final table Entry
*-----*

```

```

FORM modify_table.

```

```

IF NOT i_vbak[] IS INITIAL.

```

```

sort i_vbak by vbeln.

```

```

CLEAR wa_vbak.

```

```

LOOP AT i_vbak INTO wa_vbak.

```

```

CLEAR wa_vbpa.

```

```

READ TABLE i_vbpa INTO wa_vbpa WITH KEY vbeln = wa_vbak-vbeln.

```

```

IF sy-subrc = 0.

```

```

* Ship To Party

```

```

wa_vbak-shkunnr = wa_vbpa-kunnr.

```



```

    CLEAR wa_vbpa.

ENDIF.

CLEAR wa_xvbpa.

READ TABLE x_vbpa INTO wa_xvbpa WITH KEY vbeln = wa_vbak-vbeln.

IF sy-subrc = 0.

*   Partner Function : Code
*
*   wa_vbak-iparvw = wa_xvbpa-parvw.
*
*   wa_vbak-prkunnr = wa_xvbpa-kunnr.
*
    CLEAR wa_xvbpa.

ENDIF.

CLEAR wa_makt.

READ TABLE i_makt INTO wa_makt WITH KEY matnr = wa_vbak-matnr.

IF sy-subrc = 0.

*   Material Description
*
*   wa_vbak-maktx = wa_makt-maktx.
*
    CLEAR wa_makt.

ENDIF.

CLEAR wa_vbrp.

READ TABLE i_join INTO wa_join WITH KEY vgbel = wa_vbak-vbeln.

IF sy-subrc = 0.

**   Business Area
**
*   wa_vbak-gsber = wa_join-gsber.
*
*   wa_vbak-ex_vbeln = wa_join-vbeln.
*
    CLEAR wa_join.

ENDIF.

CLEAR wa_j_1iexcdtl.

```

```
READ TABLE i_j_1iexcdtl INTO wa_j_1iexcdtl WITH KEY matnr = wa_vbak-matnr.

IF sy-subrc = 0.

**      Chapter ID

      wa_vbak-chapid = wa_j_1iexcdtl-chapid.

      CLEAR wa_j_1iexcdtl.

ENDIF.
```

```
CLEAR wa_vbkd.

READ TABLE i_vbkd INTO wa_vbkd WITH KEY vbeln = wa_vbak-vbeln.

IF sy-subrc = 0.

*      Purchase Order Number

      wa_vbak-bstkd = wa_vbkd-bstkd.

*      Purchase Order Date

      wa_vbak-bstdk = wa_vbkd-bstdk.

*      Inco terms 1

      wa_vbak-inco1 = wa_vbkd-inco1.

*      Inco terms 2

      wa_vbak-inco2 = wa_vbkd-inco2.

*      Payment Terms

      wa_vbak-zterm = wa_vbkd-zterm.

      CLEAR wa_vbkd.

ENDIF.
```

```
CLEAR wa_xlikp.
```

```
READ TABLE x_likp INTO wa_xlikp WITH KEY matnr = wa_vbak-matnr.

IF sy-subrc = 0.
```

```

*      Delivery Number
      wa_vbak-dvbeln = wa_xlikp-vbeln.
*      Delivery Date
      wa_vbak-lfdat = wa_xlikp-lfdat.
*      Delivery Type
      wa_vbak-lfart = wa_xlikp-lfart.
*      Delivery Quantity
      wa_vbak-lfimg = wa_xlikp-lfimg.
      CLEAR wa_xlikp.
ENDIF.

```

```

CLEAR wa_xvbfa.

```

```

READ TABLE x_vbfa INTO wa_xvbfa WITH KEY vbelv = wa_vbak-vbeln.

```

```

IF sy-subrc = 0.

```

```

*      Sales Order Number
      wa_vbak-vbeln_m = wa_xvbfa-vbeln.
      CLEAR wa_xvbfa.
ENDIF.

```

```

CLEAR wa_vbrk.

```

```

READ TABLE i_vbrk INTO wa_vbrk WITH KEY vbeln = wa_vbak-vbeln_m. "vkorg = wa_vbak-
vkorg.

```

```

IF sy-subrc = 0.

```

```

*      Invoice Number
      wa_vbak-ivbeln = wa_vbrk-vbeln.
*      Invoice Date
      wa_vbak-fkdat = wa_vbrk-fkdat.
*      Invoice Type
      wa_vbak-fkart = wa_vbrk-fkart.

```

```
wa_vbak-knumv = wa_vbrk-knumv.  
CLEAR wa_vbrk.  
ENDIF.
```

```
CLEAR wa_adrc.
```

```
READ TABLE i_adrc INTO wa_adrc WITH KEY kunnr = wa_vbak-kunnr.
```

```
IF sy-subrc = 0.
```

```
* 1st Name of Sold-to-Party  
wa_vbak-name1 = wa_adrc-name1.  
* 2nd Name of Sold-to-Party  
wa_vbak-name2 = wa_adrc-name2.  
* City of Sold-to-Party  
wa_vbak-city1 = wa_adrc-city1.  
wa_vbak-street = wa_adrc-street.  
* PIN code of Sold-to-Party  
wa_vbak-post_code1 = wa_adrc-post_code1.
```

```
CLEAR wa_adrc.
```

```
ENDIF.
```

```
CLEAR wa_adrc.
```

```
CLEAR wa_xvbak.
```

```
READ TABLE x_vbak INTO wa_xvbak WITH KEY vbeln = wa_vbak-vbeln.
```

```
IF wa_xvbak-vbtyp = c_cc.
```

```
* Credit No.  
wa_vbak-c_vbeln = wa_xvbak-vbeln.
```

```

ENDIF.

IF wa_xvbak-vbtyp = c_cd.
* Debit No.
    wa_vbak-audat = wa_xvbak-audat.
    wa_vbak-d_vbeln = wa_xvbak-vbeln.
    CLEAR wa_xvbak.
ENDIF.

MODIFY i_vbak FROM wa_vbak.
CLEAR : wa_vbak, wa_xlikp.

ENDLOOP.

ENDIF.

loop at i_vbak..
    SELECT * from zsdtab into corresponding fields of i_sdtab
    where VBELN = i_vbak-ivbeln.
    append i_sdtab.
    clear i_sdtab.
ENDSELECT.
endloop.

*loop at i_vbak.
* SELECT vbeln form from zsdtab into table i_sdtab "corresponding fields of i_sdtab
* where VBELN = i_vbak-ivbeln.
*
** append i_sdtab.
** clear i_sdtab.
** ENDSELECT.

```

*endloop.

IF NOT i_vbak[] IS INITIAL.

sort i_j_1iexchr by rdoc.

sort i_vbak by ex_vbeln.

CLEAR wa_vbak.

LOOP AT i_vbak INTO wa_vbak.

CLEAR wa_vbkd.

READ TABLE i_vbkd INTO wa_vbkd WITH KEY vbeln = wa_vbak-vbeln.

IF wa_vbak-c_vbeln <> ' '.

* Credit Note Date

wa_vbak-crfkdat = wa_vbkd-fkdat.

* Credit Note Amount

wa_vbak-netwr = wa_vbak-netwr.

CLEAR wa_vbkd.

ENDIF.

IF wa_vbak-c_vbeln = ' '.

* Credit Note Amount

wa_vbak-netwr = ' '.

CLEAR wa_vbkd.

ENDIF.

CLEAR wa_j_1iexchr.

if wa_vbak-ex_vbeln <> ' '.

READ TABLE i_j_1iexchr INTO wa_j_1iexchr WITH KEY rdoc = wa_vbak-ex_vbeln.

IF sy-subrc = 0.

if wa_vbak-vbtyp = c_c.

* Official Excise Document Number

wa_vbak-exnum = wa_j_1iexchr-exnum.

* Excise Document Date

```

        wa_vbak-exdat = wa_j_1iexchr-exdat.
*       Excise Group
        wa_vbak-srgrp = wa_j_1iexchr-srgrp.
*       Excise Document Series Group
        wa_vbak-exgrp = wa_j_1iexchr-exgrp.
*       Chapter ID
*       wa_vbak-chapid = wa_j_1iexchr-chapid.

        CLEAR wa_j_1iexchr.

        endif.

    ENDIF.

endif.

CLEAR wa_sdtab.

READ TABLE i_sdtab INTO wa_sdtab WITH KEY vbeln = wa_vbak-ivbeln.

IF SY-SUBRC = 0.

    wa_vbak-form = wa_sdtab-form.

ENDIF.

CLEAR wa_sdtab.

CLEAR wa_kna1.

READ TABLE i_kna1 INTO wa_kna1 WITH KEY kunnr = wa_vbak-prkunnr.

    IF SY-SUBRC = 0.
*   Sales Person.

        wa_vbak-name_sales = wa_kna1-name1.

        CLEAR wa_kna1.

    ENDIF.

    MODIFY i_vbak FROM wa_vbak.

    CLEAR : wa_vbak, wa_xlikp.

ENDLOOP.

```

ENDIF.

ENDFORM. " modify_table

&-----

*& Form display

&-----

* Description : Display as output

FORM display .

IF i_vbak[] IS INITIAL.

 MESSAGE i002(z2) WITH 'No Data Found' . "#EC NOTEXT

ELSE.

FORMAT COLOR 1 ON.

write :/001(45) sy-uline.

 write:/(20) ' Company Code', sy-vline, (20) s_bukrs+3(4), sy-vline.

write :/001(45) sy-uline.

 write:/(20) ' Sales Person', sy-vline, (20) i_vbak-name_sales, sy-vline.

write :/001(45) sy-uline.

 write:/(20) ' Business Area', sy-vline, (20) s_gsber+3(4), sy-vline.

write :/001(45) sy-uline.

 write:/(20) ' Sales Organization', sy-vline, (20) i_vbak-vkorg, sy-vline.

write :/001(45) sy-uline.

FORMAT COLOR OFF.


```

sort i_vbak by kunnr.

DATA l_vbeln LIKE vbak-vbeln.

* IF i_vbak[] IS INITIAL.
*   MESSAGE i002(z2) WITH 'No Data Found' .           "#EC NOTEXT
* ELSE.

*   CLEAR wa_fin.
*   LOOP AT i_vbak.                                   "#EC *
*   Move-corresponding i_vbak to wa_fin.
*   at new kunnr.
*   FORMAT COLOR 7 ON.
*   WRITE :/001(699) sy-uline.

*   write :/ 'SOLD-TO-PARTY :', wa_fin-kunnr, 'SOLD-TO-PARTY NAME :', i_vbak-name1,
'SOLD-TO-PARTY ADDRESS :', i_vbak-city1,
*   'Inco Term2 :', i_vbak-inco2,(501) ' ',sy-vline.
*   write :/ 'SOLD-TO-PARTY :', wa_fin-kunnr, 'SOLD-TO-PARTY NAME :', wa_fin-name1,
'SOLD-TO-PARTY ADDRESS :', wa_fin-city1,
*   'Inco Term2 :', wa_fin-inco2,(501) ' ',sy-vline.

*   WRITE :/001(699) sy-uline.
*   FORMAT COLOR OFF.
*   FORMAT COLOR 1 ON.
*   WRITE :/(6) 'Distr.',sy-vline,(4) 'Div.',sy-vline,"#EC *
*   (6) 'Sales',sy-vline, "#EC *
*   (10) 'Sales',sy-vline,(10) 'Sales',sy-vline,
*   (10) 'Purchase',sy-vline,(10) 'Purchase',           "#EC *
*   sy-vline,(5) 'Pymnt',"#EC *
*   sy-vline,(4) 'Form',sy-vline,(15) 'Form',sy-vline,(15) 'Material',"#EC *
*   sy-vline,(35) 'Material',sy-vline,(15) 'Chapter',sy-vline,"#EC *

```

```

(5) 'Sales',sy-vline,"#EC *
(5) 'Plant',sy-vline,          "#EC *
(10) 'Delivery',sy-vline,(10) 'Delivery',sy-vline,"#EC *
(10) 'Delivery',sy-vline,(10) 'Invoice',sy-vline,"#EC *
(10) 'Invoice',sy-vline, "#EC *
(10) 'Cr Note',sy-vline,"#EC *
(10) 'Cr Note',sy-vline,(15) 'Cr Note',sy-vline, "#EC *
(10) 'Dr Note',sy-vline,(10) 'Dr Note',sy-vline, "#EC *
(12) 'Excise',sy-vline,"#EC *

(11) 'Price' , sy-vline,(11) 'IN Trade' , sy-vline,(11) 'Cash' , sy-vline,(11)
'Special' , sy-vline,
(11) 'IN A/R' , sy-vline,
(11) 'IN A/R' , sy-vline,(11) 'IN A/R' , sy-vline,(11) 'A/R VAT' , sy-vline,(11)
'Local' , sy-vline,(11) 'Commission' , sy-vline,(11) 'Brokerage' , sy-vline
,(11) 'Incentive' , sy-vline,(11) 'Indian' , sy-vline,(11) 'DEPB' , sy-
vline,(11) 'TAX-TCS' , sy-vline
,(11) 'Repacking' , sy-vline,(11) 'Cartage' , sy-vline,(11) 'A/R Edu.' , sy-
vline,(11) 'Insurance' , sy-vline
,(11) 'Frieght' , sy-vline,(11) 'IN 100%' , sy-vline,(11) 'Repacking' , sy-
vline,(11) 'Sea' , sy-vline
,(11) 'Air' , sy-vline,(11) 'CHA' , sy-vline.

WRITE :/(06) 'Chnnl.',sy-vline,(4) ' ',sy-vline,"#EC *
(6) 'Office',sy-vline, "#EC *
(10) 'Order No',sy-vline,(10) 'Order Type',sy-vline,
(10) 'Order No',sy-vline,"#EC *
(10) 'Ord. Date',sy-vline,"#EC *
(5) 'Terms',sy-vline,(4) 'Type',sy-vline,(15) 'No.',sy-vline,"#EC *
(15) 'Number',sy-vline,(35) 'Description',sy-vline,"#EC *
(15) 'ID',sy-vline,(5) 'Unit',sy-vline,"#EC *
(5) ' ',sy-vline,"#EC *

```

```

(10) 'Number',sy-vline,(10) 'Date',sy-vline,"#EC *
(10) 'Quantity',sy-vline,(10) 'Number',sy-vline,(10) 'Date',sy-vline,"#EC *
(10) 'Number',sy-vline,(10) 'Date',sy-vline,"#EC *
(15) 'Amount',sy-vline,(10) 'Number',sy-vline,(10) 'Date',sy-vline,"#EC *
(12) 'Invoice No.',sy-vline, "#EC *

(11) 'Basic' , sy-vline,(11) 'Discount' , sy-vline,(11) 'Discount' , sy-
vline,(11) 'Discount' , sy-vline,
(11) 'BED' , sy-vline,
(11) 'CST' , sy-vline,(11) 'LST' , sy-vline,(11) 'Payble' , sy-vline,(11)
'Frieght' , sy-vline,(11) '    %' , sy-vline,(11) '    %' , sy-vline
,(11) ' ' , sy-vline,(11) 'Haulage' , sy-vline,(11) 'Recoverable' , sy-
vline,(11) ' ' , sy-vline
,(11) 'Charges' , sy-vline,(11) 'Charges' , sy-vline,(11) 'Less' , sy-vline,(11)
' ' , sy-vline
,(11) 'Collection' , sy-vline,(11) 'Discount' , sy-vline,(11) 'Insurance' , sy-
vline,(11) 'Frieght' , sy-vline
,(11) 'Frieght' , sy-vline,(11) 'Charges' , sy-vline.

```

```
WRITE :/001(699) sy-uline.
```

```
FORMAT COLOR OFF.
```

```
endat.
```

```
FORMAT COLOR 2 ON.
```

```
IF l_vbeln NE i_vbak-vbeln.
```

```
l_vbeln = i_vbak-vbeln.
```

```
WRITE :/(06) i_vbak-vtweg,sy-vline,"#EC *
```

```
(4) i_vbak-spart,sy-vline,"#EC *
```

```
(6) i_vbak-vkbur,sy-vline, "#EC *
```

```
(10) i_vbak-vbeln,sy-vline,(10) i_vbak-auart,sy-vline,"#EC *
```

```
(10) i_vbak-bstkd,sy-vline,(10) i_vbak-bstkd,sy-vline,"#EC *
```

```
(5) i_vbak-zterm,sy-vline,(4) i_vbak-taxk1,sy-vline,(15) i_vbak-form,"#EC *
```

```
sy-vline,(15) i_vbak-matnr,sy-vline,(35) i_vbak-maktx,"#EC *
```

```

        sy-vline,(15) i_vbak-chapid,sy-vline,(5) i_vbak-zieme,sy-vline,"#EC *
(5) i_vbak-werks,sy-vline,"#EC *
(10) i_vbak-dvbeln,sy-vline,(10) i_vbak-lfdat,sy-vline,"#EC *
(10) i_vbak-lfimg,sy-vline,(10) i_vbak-ivbeln,sy-vline,"#EC *
(10) i_vbak-fkdat,sy-vline,    "#EC *
(10) i_vbak-C_VBELN,sy-vline,"#EC *
(10) i_vbak-crfdkdat,sy-vline,(15) i_vbak-netwr,sy-vline,"#EC *
(10) i_vbak-D_VBELN,sy-vline,(10) i_vbak-audat,sy-vline,"#EC *
(12) i_vbak-exnum,sy-vline,

        (11) i_vbak-zpr0 , sy-vline,(11) i_vbak-jtrd , sy-vline,(11) i_vbak-ZJDI ,
sy-vline,(11) i_vbak-zjd2 , sy-vline,

        (11) i_vbak-jexp , sy-vline,(11) i_vbak-jcst , sy-vline,(11) i_vbak-jlst ,
sy-vline,(11) i_vbak-jin6 , sy-vline,

        (11) i_vbak-zfro , sy-vline,(11) i_vbak-zdcp , sy-vline,

        (11) i_vbak-zdbp , sy-vline,(11) i_vbak-zjd3 , sy-vline,(11) i_vbak-zdfr ,
sy-vline,(11) i_vbak-zder , sy-vline,

        (11) i_vbak-ztcs , sy-vline,(11) i_vbak-zpac , sy-vline,(11) i_vbak-zcrt ,
sy-vline,(11) i_vbak-jcex , sy-vline,

        (11) i_vbak-zins , sy-vline

        ,(11) i_vbak-zfre , sy-vline,(11) i_vbak-jfcg , sy-vline,(11) i_vbak-zfr1 ,
sy-vline,(11) i_vbak-zsfr , sy-vline

        ,(11) i_vbak-zair , sy-vline,(11) i_vbak-zcha , sy-vline.

```

ELSE.

```

WRITE :/(06) i_vbak-vtweg,sy-vline,"#EC *
(4) i_vbak-spart,sy-vline,"#EC *
(6) i_vbak-vkbur,sy-vline,"#EC *
(10) i_vbak-vbeln,sy-vline,(10) i_vbak-auart,sy-vline,"#EC *
(10) i_vbak-bstkd,sy-vline,(10) i_vbak-bstdk,sy-vline,"#EC *
(5) i_vbak-zterm,sy-vline,(4) i_vbak-taxk1,sy-vline,(15) i_vbak-form,"#EC *
sy-vline,(15) i_vbak-matnr,sy-vline,(35) i_vbak-maktx,"#EC *
sy-vline,(15) i_vbak-chapid,sy-vline,(5) i_vbak-zieme,sy-vline,"#EC *
(5) i_vbak-werks,sy-vline,"#EC *

```

```

(10) i_vbak-dvbeln,sy-vline,(10) i_vbak-lfdat,sy-vline,"#EC *
(10) i_vbak-lfimg,sy-vline,(10) i_vbak-ivbeln,sy-vline,"#EC *
(10) i_vbak-fkdat,sy-vline, "#EC *
(10) i_vbak-C_VBELN,sy-vline,"#EC *
(10) i_vbak-crfdkdat,sy-vline,(15) i_vbak-netwr,sy-vline,"#EC *
(10) i_vbak-D_VBELN,sy-vline,(10) i_vbak-audat,sy-vline,"#EC *
(12) i_vbak-exnum,sy-vline,

(11) i_vbak-zpr0 , sy-vline,(11) i_vbak-jtrd , sy-vline,(11) i_vbak-ZJDI ,
sy-vline,(11) i_vbak-zjd2 , sy-vline,

(11) i_vbak-jexp , sy-vline,(11) i_vbak-jcst , sy-vline,(11) i_vbak-jlst ,
sy-vline,(11) i_vbak-jin6 , sy-vline,

(11) i_vbak-zfro , sy-vline,(11) i_vbak-zdcp , sy-vline,

(11) i_vbak-zdbp , sy-vline,(11) i_vbak-zjd3 , sy-vline,(11) i_vbak-zdfr ,
sy-vline,(11) i_vbak-zder , sy-vline,

(11) i_vbak-ztcs , sy-vline,(11) i_vbak-zpac , sy-vline,(11) i_vbak-zcrt ,
sy-vline,(11) i_vbak-jcex , sy-vline,

(11) i_vbak-zins , sy-vline

,(11) i_vbak-zfre , sy-vline,(11) i_vbak-jfcg , sy-vline,(11) i_vbak-zfr1 ,
sy-vline,(11) i_vbak-zsfr , sy-vline

,(11) i_vbak-zair , sy-vline,(11) i_vbak-zcha , sy-vline.

ENDIF.

FORMAT COLOR OFF.

* WRITE :/001(786) sy-uline.

AT END OF KUNNR.

* COLLECT i_vbak.

COLLECT wa_fin into i_vbak.

FORMAT COLOR 1 ON.

WRITE :/001(699) sy-uline.

```

```
WRITE :/(223) ' ',sy-vline,(10) wa_fin-lfimg, sy-vline, (49) ' ', sy-vline, (15)
wa_fin-netwr, sy-vline, (38) ' ',sy-vline, (11) wa_fin-zpr0, sy-vline.
```

```
WRITE :/001(699) sy-uline.
```

```
FORMAT COLOR OFF.
```

```
ENDAT.
```

```
* AT LAST.
```

```
** Collect i_vbak.
```

```
* COLLECT wa_fin into i_vbak.
```

```
* FORMAT COLOR 3 ON.
```

```
* WRITE :/001(699) sy-uline.
```

```
* WRITE :/(223) ' ',sy-vline,(10) wa_fin-lfimg, sy-vline, (49) ' ', sy-vline, (15)
wa_fin-netwr, sy-vline, (38) ' ',sy-vline, (11) wa_fin-zpr0, sy-vline.
```

```
* WRITE :/001(699) sy-uline.
```

```
* FORMAT COLOR OFF.
```

```
* ENDAT.
```

```
ENDLOOP.
```

```
FORMAT COLOR 3 ON.
```

```
WRITE :/001(699) sy-uline.
```

```
WRITE :/(223) ' ',sy-vline,(10) total, sy-vline, (49) ' ', sy-vline, (15) total2, sy-
vline, (38) ' ',sy-vline, (11) total3, sy-vline.
```

```
WRITE :/001(699) sy-uline.
```

```
FORMAT COLOR OFF.
```

```
ENDIF.
```

```
ENDFORM. " display
```

```
*&-----*
```

```
*& Form pricing_cond
```

```
*&-----*
```

```
* text
```

```
*-----*
```

```

* --> p1      text
* <-- p2      text
*-----*
form pricing_cond .

loop at i_vbak.
if s_gsber NE ' '.
delete i_vbak where gsber NE s_gsber+3(4).
endif.
if
S_kunnr1 <> ' '.
delete i_vbak where name_sales = ' '.
endif.
endloop.

SELECT knumv KSCHL KBETR FROM KONV INTO table CONDITION for all entries in i_vbak
where knumv = i_vbak-knumv.

IF NOT i_vbak[] IS INITIAL.
  CLEAR wa_vbak.
  LOOP AT i_vbak INTO wa_vbak.
  CLEAR wa_cond.
  LOOP AT CONDITION INTO wa_cond.

  IF wa_cond-knumv = wa_vbak-knumv.

    IF wa_cond-KSCHL = 'ZPAC'.
      wa_vbak-ZPAC = wa_cond-KBETR.
    ENDIF.
  ENDIF.
ENDIF.

```

```
IF wa_cond-KSCHL = 'ZFR1'.  
wa_vbak-ZFR1 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZPR0'.  
wa_vbak-ZPR0 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZCRT'.  
wa_vbak-ZCRT = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JEXP'.  
wa_vbak-JEXP = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZJD3'.  
wa_vbak-ZJD3 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JCEX'.  
wa_vbak-JCEX = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZSFR'.  
wa_vbak-ZSFR = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZAIR'.  
wa_vbak-ZAIR = wa_cond-KBETR.  
ENDIF.
```



```
IF wa_cond-KSCHL = 'ZINS'.  
wa_vbak-ZINS = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZCHA'.  
wa_vbak-ZCHA = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JTRD'.  
wa_vbak-JTRD = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JCST'.  
wa_vbak-JCST = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JLST'.  
wa_vbak-JLST = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JIN6'.  
wa_vbak-JIN6 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JFCG'.  
wa_vbak-JFCG = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZJD2'.  
wa_vbak-ZJD2 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZJDI'.  
wa_vbak-ZJDI = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZFRE'.  
wa_vbak-ZFRE = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'B001'.  
wa_vbak-B001 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JEXQ'.  
wa_vbak-JEXQ = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JEXT'.  
wa_vbak-JEXT = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JCES'.  
wa_vbak-JCES = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JIN7'.  
wa_vbak-JIN7 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'JIN8'.  
wa_vbak-JIN8 = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZDCP'.  
wa_vbak-ZDCP = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZDBP'.  
wa_vbak-ZDBP = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZDFR'.  
wa_vbak-ZDFR = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZDER'.  
wa_vbak-ZDER = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZTCS'.  
wa_vbak-ZTCS = wa_cond-KBETR.  
ENDIF.
```

```
IF wa_cond-KSCHL = 'ZFRO'.  
wa_vbak-ZFRO = wa_cond-KBETR.  
ENDIF.
```

```
CLEAR wa_COND.
```

```
MODIFY i_vbak FROM wa_vbak.
```

```
ENDIF.
```

```
endloop.
```

```
CLEAR : wa_vbak.
```

```

        CLEAR wa_COND.

    ENDLOOP.

CLEAR : wa_vbak.

ENDIF.

loop at i_vbak.

    total = total + i_vbak-lfimg.

    total2 = total2 + i_vbak-netwr.

    total3 = total3 + i_vbak-zpr0.

endloop.

endform.          " pricing_cond

*&-----*
-----*
*& Date          Modif.ID   Modification Details
*&-----*
-----*
*& 02/11/2006   G001       Provided Additional Button on ALV List for
Stock Overview
*&                                     display, By clicking on this button user can
access MB52
*&                                     transaction. It will display stock for all
the materials
*&                                     displayed on the screen
*&-----*
-----*

REPORT ZSDR0002.
*-----*
-
* Tables
*-----*
-
TABLES : VBAK, VBAP, LIKP, LIPS, VBUP, VBEP.

*-----*
-
* Internal Tables
*-----*
-
DATA : BEGIN OF FINAL OCCURS 0,
        VBELN LIKE VBAK-VBELN,      "SALES ORDER
        POSNR LIKE VBAP-POSNR,      "ITEM

```

AUART LIKE VBAK-AUART,	"ORDER TYPE
AUDAT LIKE VBAK-AUDAT,	"ORDER DATE
BSTNK LIKE VBAK-BSTNK,	"CUSTOMER PO NO.
BSTDK LIKE VBAK-BSTDK,	"CUSTOMER PO DATE
WAERK LIKE VBAK-WAERK,	"Currency
LIFSK LIKE VBAK-LIFSK,	"Delivery Block
ZMENG LIKE VBAP-ZMENG,	"TARGET QTY.
KWMENG LIKE VBAP-KWMENG,	"SO QTY
OPENQTY LIKE VBAP-KWMENG,	" OPEN QTY
LFIMG LIKE LIPS-LFIMG,	"DELIVERY QTY
NETPR LIKE VBAP-NETPR,	"UNIT PRICE
NETWR LIKE VBAP-NETWR,	"NET VALUE
BALWR LIKE VBAP-NETWR,	"NET VALUE FOR BALANCE QTY.
BALOC LIKE VBAP-NETWR,	"BALANCE VALUE IN LOCAL CURRENCY
DLVQTY LIKE LIPS-LFIMG,	"DELIVERED QTY.
KURSK LIKE VBKD-KURSK,	"EXCHANGE RATE
LOCVAL LIKE VBAP-NETWR,	"AMT. IN LOCAL CURRENCY
KUNNR LIKE VBAK-KUNNR,	"CUSTOMER
VKORG LIKE VBAK-VKORG,	"SALES ORG.
VKBUR LIKE VBAK-VKBUR,	"SALES OFF.
VDATU LIKE VBAK-VDATU,	"Req.Del.Date
MATNR LIKE MARA-MATNR,	"MATERIAL NO
ARKTX LIKE VBAP-ARKTX,	"MATERIAL DESC
WERKS LIKE VBAP-WERKS,	"PLANT
LFSTA LIKE VBUP-LFSTA,	"Item Delivery Status
GBSTA LIKE VBUP-GBSTA,	"Overall Status
* PONO LIKE VBFA-VBELN,	"PO NO.
* POITEM LIKE VBFA-POSNN,	"PO ITEM
NAME1 LIKE KNA1-NAME1,	"CUSTOMER NAME
VBTYP LIKE VBAK-VBTYP,	"Doc. Category
ETENR LIKE VBEP-ETENR,	"Schd.Line Item No.
EDATU LIKE VBEP-EDATU,	"Schedule line date
WMENG LIKE VBEP-WMENG,	"Schedule qty.
BMENG LIKE VBEP-BMENG,	"Confirmed Qty.
CRSTAT LIKE DD07V-DDTEXT,	"Credit check status
VTEXT LIKE TVLST-VTEXT,	"Delivery block
CITY1 LIKE ADRC-CITY1,	"CITY
CARRIER(30) TYPE C,	"CARRIER
END OF FINAL.	

DATA: FINAL1 LIKE FINAL OCCURS 0 WITH HEADER LINE.
DATA: MCTRAN LIKE TCURF-FFACT.

DATA: BEGIN OF I_TVKBZ OCCURS 0,
VKORG LIKE TVKBZ-VKORG,
VKBUR LIKE TVKBZ-VKBUR,
END OF I_TVKBZ.

DATA: BEGIN OF I_VBUK OCCURS 0,
VBELN LIKE VBUK-VBELN,
CMGST LIKE VBUK-CMGST,
CRSTAT LIKE DD07V-DDTEXT, "Credit check status
END OF I_VBUK.

DATA: MUGRP LIKE USGRP_USER-USERGROUP.
DATA: MUNAME LIKE SY-UNAME,
MMSGTX1(50) TYPE C.

```

*-----
-
* Data declarations
*-----
-
TYPE-POOLS: SLIS.

CONSTANTS:
GC_FORMNAME_TOP_OF_PAGE TYPE SLIS_FORMNAME VALUE 'TOP_OF_PAGE'.
DATA: GT_FIELDCAT TYPE SLIS_T_FIELDCAT_ALV,
      GS_LAYOUT   TYPE SLIS_LAYOUT_ALV,
      GS_PRINT    TYPE SLIS_PRINT_ALV,
      GT_SORT     TYPE SLIS_T_SORTINFO_ALV,
      GT_SP_GROUP TYPE SLIS_T_SP_GROUP_ALV,
      GT_EVENTS   TYPE SLIS_T_EVENT WITH HEADER LINE.

DATA: G_REPID LIKE SY-REPID.
DATA: GT_LIST_TOP_OF_PAGE TYPE SLIS_T_LISTHEADER.

DATA:      G_BOXNAM TYPE SLIS_FIELDNAME VALUE 'BOX',
      P_F2CODE LIKE SY-UCOMM          VALUE '&ETA',
      P_LIGNAM TYPE SLIS_FIELDNAME VALUE 'LIGHTS',
      G_SAVE(1) TYPE C,
      G_DEFAULT(1) TYPE C,
      G_EXIT(1) TYPE C,
      GX_VARIANT LIKE DISVARIANT,
      G_VARIANT LIKE DISVARIANT.

*-----
-
* Parameter / Selection - screens
*-----
-
SELECTION-SCREEN BEGIN OF BLOCK B1 WITH FRAME TITLE TEXT-001.

SELECT-OPTIONS : S_VKORG FOR VBAK-VKORG OBLIGATORY,
                 S_VKBUR FOR VBAK-VKBUR,
                 S_WERKS FOR VBAP-WERKS OBLIGATORY,
                 S_VBELN FOR VBAP-VBELN,
                 S_KUNNR FOR VBAK-KUNNR,
                 S_MATNR FOR VBAP-MATNR,
                 S_AUART FOR VBAK-AUART,
                 S_EDATU FOR VBEP-EDATU,
                 S_MATKL FOR VBAP-MATKL,
                 S_STAT  FOR VBUP-LFSTA.
*PARAMETERS : C_SUMREP AS CHECKBOX.

SELECTION-SCREEN END OF BLOCK B1.

*-----
-
* Initialization
*-----
-
INITIALIZATION.

```

```

*-----
-
* Validation Section
*-----
-
AT SELECTION-SCREEN.

*-----
-
* START-OF-SELECTION
*-----
-
START-OF-SELECTION.

    PERFORM DATA_COLLECTION.
*   IF C_SUMREP = 'X'.
*       PERFORM SUMMARISE_DATA.
*   ENDIF.
    PERFORM DATA_FORMAT.

END-OF-SELECTION.

    REFRESH S_VKBUR.
    CLEAR S_VKBUR.

*-----
-
* End of selection
*-----
-
*&-----
*
*&       Form DATA_COLLECTION
*&-----
*
FORM DATA_COLLECTION.

DATA: BEGIN OF I_SODATA OCCURS 0,
      VBELN LIKE VBAP-VBELN,
      POSNR LIKE VBAP-POSNR,
      KWMENG LIKE VBAP-KWMENG,
      NETWR LIKE VBAP-NETWR,
      END OF I_SODATA.

DATA: BEGIN OF I_LIPS OCCURS 0,
      VBELN LIKE LIPS-VBELN,
      POSNR LIKE LIPS-POSNR,
      WERKS LIKE LIPS-WERKS,
      LFIMG LIKE LIPS-LFIMG,
      VGBEL LIKE LIPS-VGBEL,
      VGPOS LIKE LIPS-VGPOS,
      END OF I_LIPS.

RANGES: R_VBTYP FOR VBAK-VBTYP.
RANGES: R_VBTYP_N FOR VBFA-VBTYP_N.

R_VBTYP-SIGN    = 'E'.
R_VBTYP-OPTION = 'EQ'.

```

```

R_VBTYP-LOW      = 'B'.
APPEND R_VBTYP.

R_VBTYP_N-SIGN   = 'I'.
R_VBTYP_N-OPTION = 'EQ'.
R_VBTYP_N-LOW    = 'V'.
APPEND R_VBTYP_N.

SELECT VBAK~AUART VBAK~AUDAT VBAK~KUNNR VBAK~VKORG VBAK~VKBUR
VBAK~BSTDK VBAK~BSTNK VBAK~VDATU VBAK~LIFSK
      VBAK~WAERK VBAP~ZMENG VBAP~NETWR VBAP~NETPR VBAP~VBELN
VBAP~POSNR VBAP~KWMENG VBAP~MATKL
      VBAP~MATNR VBAP~WERKS VBAP~ARKTX VBUP~LFSTA VBKD~KURSK
VBEP~ETENR VBEP~EDATU VBEP~WMENG VBEP~BMENG
      INTO CORRESPONDING FIELDS OF TABLE FINAL
      FROM VBAK
      JOIN VBAP ON VBAP~VBELN = VBAK~VBELN
      JOIN VBUP ON  VBUP~VBELN = VBAP~VBELN
      AND
      VBUP~POSNR = VBAP~POSNR
      JOIN VBKD ON  VBKD~VBELN = VBAK~VBELN
      AND
      VBKD~POSNR = '000000'
      JOIN VBEP ON VBEP~VBELN = VBAP~VBELN
      AND
      VBEP~POSNR = VBAP~POSNR
WHERE VBAK~VBELN IN S_VBELN
      AND ( VBAK~VBTYP EQ 'C' OR VBAK~VBTYP = 'L' OR VBAK~VBTYP =
'G' )
      AND VBAK~AUART IN S_AUART
      AND VBAK~VBTYP IN R_VBTYP
      AND VBAK~VKORG IN S_VKORG
      AND VBAK~VKBUR IN S_VKBUR
      AND VBAK~KUNNR IN S_KUNNR
      AND VBAP~WERKS IN S_WERKS
      AND VBAP~MATNR IN S_MATNR
      AND VBAP~MATKL IN S_MATKL
      AND VBUP~LFSTA IN S_STAT
      AND VBEP~EDATU IN S_EDATU.

*SORT FINAL BY VBTYP AUART.
*DELETE FINAL WHERE VBTYP = 'G' AND AUART <> 'ZSM1'.
*
*SORT FINAL BY VBELN POSNR.
*SELECT VBELN POSNR WERKS LFIMG VGBEL VGPOS
*      INTO CORRESPONDING FIELDS OF TABLE I_LIPS
*      FROM LIPS
*      FOR ALL ENTRIES IN FINAL
*      WHERE VGBEL = FINAL-VBELN
*      AND VGPOS = FINAL-POSNR.
*
*
*LOOP AT FINAL.
* LOOP AT I_LIPS WHERE VGBEL = FINAL-VBELN
*      AND VGPOS = FINAL-POSNR.
*      FINAL-LFIMG = FINAL-LFIMG + I_LIPS-LFIMG.
* ENDLOOP.
* MODIFY FINAL.
*ENDLOOP.

```



```

LOOP AT FINAL.
  CALL FUNCTION 'ISU_SD_DELIVERY_TO_SCHDL_GET'
    EXPORTING
      in_vbeln          = FINAL-VBELN
      in_posnr         = FINAL-POSNR
      in_etenr        = FINAL-ETENR
    IMPORTING
      OUT_QUANTITY    = FINAL-DLVQTY.
  MODIFY FINAL.
ENDLOOP.

IF FINAL[] IS INITIAL.
  EXIT.
ENDIF.

LOOP AT FINAL.
  FINAL-LOCVAL = FINAL-NETWR * FINAL-KURSK.
  IF FINAL-KWMENG = 0.
    FINAL-KWMENG = FINAL-ZMENG.
  ENDIF.
  FINAL-OPENQTY = FINAL-KWMENG.
  MODIFY FINAL.
ENDLOOP.

* TO FIND THE OPEN ORDER QUANTITY
DATA: MSONO LIKE VBAK-VBELN, MSOITEM LIKE VBAP-POSNR, MDLVQTY LIKE
LIPS-LFIMG, MBALQTY LIKE VBAP-KWMENG.
LOOP AT FINAL.
*   IF MSONO <> FINAL-VBELN.
*     MDLVQTY = FINAL-DLVQTY.
*     MBALQTY = FINAL-KWMENG.
*   ENDIF.
*   IF MSONO = FINAL-VBELN AND MSOITEM <> FINAL-POSNR.
*     MDLVQTY = FINAL-DLVQTY.
*     MBALQTY = FINAL-KWMENG.
*   ENDIF.

*   FINAL-OPENQTY = MBALQTY - FINAL-DLVQTY. "FINAL-LFIMG. "PARTIALLY
DELIVERED.
  FINAL-OPENQTY = FINAL-BMENG - FINAL-DLVQTY.
  FINAL-BALWR = FINAL-NETPR * FINAL-OPENQTY.
  FINAL-BALOC = FINAL-BALWR * FINAL-KURSK.
*   IF FINAL-MATNR(1) = '0'.
*     PACK FINAL-MATNR TO FINAL-MATNR.
*   ENDIF.
*   MDLVQTY = MDLVQTY + FINAL-DLVQTY.
*   MSONO = FINAL-VBELN.
*   MSOITEM = FINAL-POSNR.
*   MBALQTY = MBALQTY - FINAL-DLVQTY.
  MODIFY FINAL.
ENDLOOP.

SORT FINAL BY KUNNR.
FINAL1[] = FINAL[].
DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING KUNNR.
IF NOT FINAL1[] IS INITIAL.
  LOOP AT FINAL1.

```

```

        SELECT SINGLE KNA1~NAME1 ADRC~CITY1 INTO (FINAL1-NAME1, FINAL1-
CITY1)
        FROM KNA1
        JOIN ADRC ON ADRC~ADDRNUMBER = KNA1~ADRNR
        WHERE KNA1~KUNNR = FINAL1-KUNNR
        AND KNA1~SPRAS = 'EN'.
    MODIFY FINAL1.
    ENDLOOP.

    LOOP AT FINAL1.
        LOOP AT FINAL WHERE KUNNR = FINAL1-KUNNR.
            FINAL-NAME1 = FINAL1-NAME1.
            FINAL-CITY1 = FINAL1-CITY1.
*           IF FINAL-KUNNR(1) = '0'.
*               PACK FINAL-KUNNR TO FINAL-KUNNR.
*           ENDIF.
            MODIFY FINAL.
        ENDLOOP.
    ENDLOOP.
    ENDIF.

    SORT FINAL BY WAERK.
    FINAL1[] = FINAL[].
    DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING WAERK.
    DELETE FINAL1 WHERE WAERK = 'INR'.

    LOOP AT FINAL1.
        MCTRAN = 0.
        SELECT SINGLE FFACT INTO MCTRAN
        FROM TCURF
        WHERE KURST = 'M'
        AND FCURR = FINAL1-WAERK
        AND TCURR = 'INR'.

        LOOP AT FINAL WHERE VBELN = FINAL1-VBELN.
            FINAL-LOCVAL = FINAL-NETWR * FINAL-KURSK.
            FINAL-BALLOC = FINAL-BALWR * FINAL-KURSK.
            FINAL-NETWR = FINAL-NETWR * MCTRAN.
            FINAL-NETPR = FINAL-NETPR * MCTRAN.
            FINAL-BALWR = FINAL-BALWR * MCTRAN.
            MODIFY FINAL.
        ENDLOOP.
    ENDLOOP.

    LOOP AT FINAL WHERE LFSTA = 'C'.
        FINAL-OPENQTY = 0.
        FINAL-BALWR = 0.
        FINAL-BALLOC = 0.
        MODIFY FINAL.
    ENDLOOP.

    PERFORM GET_CREDIT_CHECK.
    PERFORM GET_DLV_BLOCK.
    PERFORM GET_CARRIER.

    ENDFORM. " DATA_COLLECTION

```

```

*&-----
*
*&      Form  DATA_FORMAT
*&-----
*
FORM DATA_FORMAT.
  G_REPID = SY-REPID.

  PERFORM E01_FIELDCAT_INIT USING GT_FIELDCAT[].
  PERFORM E04_COMMENT_BUILD USING GT_LIST_TOP_OF_PAGE[].

  G_SAVE = 'A'.

  CLEAR GT_EVENTS.
  REFRESH GT_EVENTS.
  GT_EVENTS-NAME = 'TOP_OF_PAGE'.
  GT_EVENTS-FORM = 'TOP_OF_PAGE'.
  APPEND GT_EVENTS.

  SORT FINAL BY WERKS AUART VBELN POSNR.
  PERFORM DISPLAY_REPORT TABLES FINAL.

ENDFORM.              " DATA_FORMAT
*&-----
*
*&      Form  e01_fieldcat_init
*&-----
*
*      text
*-----
*
*      -->P_GT_FIELDCAT[]  text
*-----
*
FORM E01_FIELDCAT_INIT USING E01_LT_FIELDCAT TYPE SLIS_T_FIELDCAT_ALV.

  DATA: LS_FIELDCAT TYPE SLIS_FIELDCAT_ALV.
  REFRESH E01_LT_FIELDCAT.

* SO TYPE
  CLEAR LS_FIELDCAT.
  LS_FIELDCAT-FIELDNAME = 'AUART'.
  LS_FIELDCAT-COL_POS = 1.
  LS_FIELDCAT-SELTEXT_L = 'Type'.
  APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* Sales Order Date
  CLEAR LS_FIELDCAT.
  LS_FIELDCAT-FIELDNAME = 'AUDAT'.
  LS_FIELDCAT-COL_POS = 2.
  LS_FIELDCAT-SELTEXT_L = 'Order Date'.
  LS_FIELDCAT-OUTPUTLEN = 10.
  APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* Customer PO No.
  CLEAR LS_FIELDCAT.

```

```

LS_FIELDCAT-FIELDNAME      = 'BSTNK'.
LS_FIELDCAT-COL_POS        = 3.
LS_FIELDCAT-SELTEXT_L      = 'Cust.PO No.'.
LS_FIELDCAT-OUTPUTLEN      = 20.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* SO NUMBER
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'VBELN'.
LS_FIELDCAT-COL_POS        = 4.
LS_FIELDCAT-HOTSPOT        = 'X'.
LS_FIELDCAT-SELTEXT_L      = 'S.O. No'.
LS_FIELDCAT-OUTPUTLEN      = 12.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* IF C_SUMREP = ''.
* SO ITEM
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'POSNR'.
LS_FIELDCAT-COL_POS        = 5.
LS_FIELDCAT-SELTEXT_L      = 'Item No.'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* MATERIAL NO.
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'MATNR'.
LS_FIELDCAT-COL_POS        = 6.
LS_FIELDCAT-SELTEXT_L      = 'Material No.'.
LS_FIELDCAT-OUTPUTLEN      = 15.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* MATERIAL DESC.
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'ARKTX'.
LS_FIELDCAT-COL_POS        = 7.
LS_FIELDCAT-SELTEXT_L      = 'Material Description'.
LS_FIELDCAT-OUTPUTLEN      = 25.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* Req.Del.Date
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'VDATU'.
LS_FIELDCAT-COL_POS        = 8.
LS_FIELDCAT-SELTEXT_L      = 'Req.Del.Date'.
LS_FIELDCAT-OUTPUTLEN      = 12.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* SO QTY
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'KWMENG'.
LS_FIELDCAT-COL_POS        = 9.
LS_FIELDCAT-SELTEXT_L      = 'Order Qty.'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* SO Value
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'NETWR'.
LS_FIELDCAT-COL_POS        = 10.

```

```

LS_FIELDCAT-SELTEXT_L      = 'Order Value'.
LS_FIELDCAT-OUTPUTLEN      = 15.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

*Exchange Rate
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'KURSK'.
LS_FIELDCAT-COL_POS        = 11.
LS_FIELDCAT-SELTEXT_L      = 'Exch.Rate'.
LS_FIELDCAT-OUTPUTLEN      = 10.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

*Amount In Local Currency
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'LOCVAL'.
LS_FIELDCAT-COL_POS        = 12.
LS_FIELDCAT-SELTEXT_L      = 'Order Val.Loc.Curr.'.
LS_FIELDCAT-DO_SUM         = 'X'.
LS_FIELDCAT-OUTPUTLEN      = 15.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

*   ENDIF.

CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'DLVQTY'.
LS_FIELDCAT-COL_POS        = 13.
LS_FIELDCAT-SELTEXT_L      = 'Delivered Qty.'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

*   IF C_SUMREP = ''.
* Open Order Value
  CLEAR LS_FIELDCAT.
  LS_FIELDCAT-FIELDNAME      = 'OPENQTY'.
  LS_FIELDCAT-COL_POS        = 14.
  LS_FIELDCAT-SELTEXT_L      = 'Balance Qty.'.
  APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
*   ENDIF.

* Open Order Value
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'BALWR'.
LS_FIELDCAT-COL_POS        = 15.
LS_FIELDCAT-SELTEXT_L      = 'Open Order Val.'.
LS_FIELDCAT-OUTPUTLEN      = 15.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* Open Order Value In Local Currency
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'BALLOC'.
LS_FIELDCAT-COL_POS        = 16.
LS_FIELDCAT-SELTEXT_L      = 'Open Val.Loc.Curr.'.
LS_FIELDCAT-DO_SUM         = 'X'.
LS_FIELDCAT-OUTPUTLEN      = 15.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* CUSTOMER NO
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'WAERK'.

```

```
LS_FIELDCAT-COL_POS      = 17.
LS_FIELDCAT-SELTEXT_L    = 'Currency'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'EDATU'.
LS_FIELDCAT-COL_POS      = 18.
LS_FIELDCAT-SELTEXT_L    = 'Schedule Line Date'.
LS_FIELDCAT-OUTPUTLEN    = 15.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'WMENG'.
LS_FIELDCAT-COL_POS      = 19.
LS_FIELDCAT-SELTEXT_L    = 'Schedule Qty.'.
LS_FIELDCAT-OUTPUTLEN    = 10.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'BMENG'.
LS_FIELDCAT-COL_POS      = 20.
LS_FIELDCAT-SELTEXT_L    = 'Confirm Qty.'.
LS_FIELDCAT-OUTPUTLEN    = 10.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

* CUSTOMER NO

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'KUNNR'.
LS_FIELDCAT-COL_POS      = 21.
LS_FIELDCAT-SELTEXT_L    = 'Customer No.'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

* CUSTOMER NAME

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'NAME1'.
LS_FIELDCAT-COL_POS      = 22.
LS_FIELDCAT-SELTEXT_L    = 'Customer Name'.
LS_FIELDCAT-OUTPUTLEN    = 35.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

* CITY

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'CITY1'.
LS_FIELDCAT-COL_POS      = 23.
LS_FIELDCAT-SELTEXT_L    = 'Destination'.
LS_FIELDCAT-OUTPUTLEN    = 20.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

* PLANT

```
CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME    = 'WERKS'.
LS_FIELDCAT-COL_POS      = 24.
LS_FIELDCAT-SELTEXT_L    = 'Plant'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
```

* Sales Office

```

CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME      = 'VKBUR'.
LS_FIELDCAT-COL_POS       = 25.
LS_FIELDCAT-SELTEXT_L     = 'Sales Office'.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

* IF C_SUMREP = ''.
*Item Delivery / Quotation Status
  CLEAR LS_FIELDCAT.
  LS_FIELDCAT-FIELDNAME    = 'LFSTA'.
  LS_FIELDCAT-SELTEXT_L   = 'Item Del.Status'.
  LS_FIELDCAT-COL_POS     = 26.
  LS_FIELDCAT-OUTPUTLEN   = 14.
  APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.
* ENDIF.

CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME     = 'CRSTAT'.
LS_FIELDCAT-SELTEXT_L    = 'Credit Check Status'.
LS_FIELDCAT-COL_POS      = 27.
LS_FIELDCAT-OUTPUTLEN    = 40.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME     = 'VTEXT'.
LS_FIELDCAT-SELTEXT_L    = 'Delivery Block'.
LS_FIELDCAT-COL_POS      = 28.
LS_FIELDCAT-OUTPUTLEN    = 40.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

CLEAR LS_FIELDCAT.
LS_FIELDCAT-FIELDNAME     = 'CARRIER'.
LS_FIELDCAT-SELTEXT_L    = 'Carrier'.
LS_FIELDCAT-COL_POS      = 29.
LS_FIELDCAT-OUTPUTLEN    = 30.
APPEND LS_FIELDCAT TO E01_LT_FIELDCAT.

ENDFORM.                                " e01_fieldcat_init
*&-----
*
*&      Form  display_report
*&-----
*
*      text
*-----
*
*      -->P_FINAL  text
*-----
*
FORM DISPLAY_REPORT TABLES ITAB.
  GS_layout-colwidth_optimize = 'X'.

CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
  EXPORTING
    I_BACKGROUND_ID          = 'ALV_BACKGROUND'
    I_CALLBACK_PROGRAM       = G_REPID
    I_CALLBACK_PF_STATUS_SET = 'S100'

```

```

I_CALLBACK_USER_COMMAND = 'USER_COMMAND '
IS_LAYOUT                = GS_LAYOUT
IT_FIELDCAT             = GT_FIELDCAT[]
IT_SPECIAL_GROUPS      = GT_SP_GROUP[]
IT_SORT                 = GT_SORT[]
I_SAVE                  = G_SAVE
IS_VARIANT              = G_VARIANT
IT_EVENTS               = GT_EVENTS[]
IS_PRINT                = GS_PRINT
TABLES
  T_OUTTAB              = FINAL.

ENDFORM.                  " display_report
*&-----
*
*&      Form  e04_comment_build
*&-----
*
*      text
*-----
*
*      -->P_GT_LIST_TOP_OF_PAGE[]  text
*-----
*
FORM E04_COMMENT_BUILD USING E04_LT_TOP_OF_PAGE TYPE
SLIS T_LISTHEADER.
  DATA: LS_LINE TYPE SLIS_LISTHEADER,V_TEXT(50) TYPE C.
  DATA: MSTRLEN TYPE I.
  DATA: MDATE LIKE SY-DATUM.

  CLEAR E04_LT_TOP_OF_PAGE.
  REFRESH E04_LT_TOP_OF_PAGE.
  LS_LINE-TYP = 'H'.
  LS_LINE-INFO = 'English Indian Clays Limited'.
  APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
*   IF C_SUMREP = 'X'.
*     LS_LINE-INFO = 'Sales Order Summary'.
*   ELSE.
*     LS_LINE-INFO = 'Dispatch Plan & Sales Order Status'.
*   ENDIF.
  APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.

  CLEAR LS_LINE.
  LS_LINE-TYP = 'S'.
  LS_LINE-KEY = 'Print Date & Time'.
  CONCATENATE SY-DATUM+6(2) '/' SY-DATUM+4(2) '/' SY-DATUM(4) INTO
LS_LINE-INFO.
  CONCATENATE LS_LINE-INFO '***' SY-UZEIT(2) ':' SY-UZEIT+2(2) ':' SY-
UZEIT+4(2) INTO LS_LINE-INFO.
  APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.

  IF NOT S_VKORG-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Sales Organisation'.
    LS_LINE-INFO = S_VKORG-LOW.
    IF NOT S_VKORG-HIGH IS INITIAL.

```



```

        CONCATENATE LS_LINE-INFO '-      To      -' S_VKORG-HIGH INTO
LS_LINE-INFO.
    ENDIF.
    APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
    ENDIF.

IF NOT S_VKBUR-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Sales Office'.
    READ TABLE S_VKBUR INDEX 1.
    IF S_VKBUR-HIGH IS INITIAL.
        LOOP AT S_VKBUR.
            IF SY-TABIX = 1.
                CONCATENATE LS_LINE-INFO S_VKBUR-LOW INTO LS_LINE-INFO.
            ELSE.
                CONCATENATE LS_LINE-INFO S_VKBUR-LOW INTO LS_LINE-INFO
SEPARATED BY ', '.
            ENDIF.
            CONDENSE LS_LINE-INFO.
            MSTRLEN = STRLEN( LS_LINE-INFO ).
            IF MSTRLEN = 58.
                APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
                CLEAR: LS_LINE-INFO, LS_LINE-KEY.
            ENDIF.
        ENDLOOP.
        IF LS_LINE-INFO <> ', ' AND LS_LINE-INFO <> ''.
            APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
        ENDIF.
    ELSE.
        CONCATENATE S_VKBUR-LOW '-      To      -' S_VKBUR-HIGH INTO LS_LINE-
INFO.
        APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
    ENDIF.
ENDIF.

IF NOT S_WERKS-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Plant'.
    READ TABLE S_WERKS INDEX 1.
    IF S_WERKS-HIGH IS INITIAL.
        LOOP AT S_WERKS.
            IF SY-TABIX = 1.
                CONCATENATE LS_LINE-INFO S_WERKS-LOW INTO LS_LINE-INFO.
            ELSE.
                CONCATENATE LS_LINE-INFO S_WERKS-LOW INTO LS_LINE-INFO
SEPARATED BY ', '.
            ENDIF.
            CONDENSE LS_LINE-INFO.
            MSTRLEN = STRLEN( LS_LINE-INFO ).
            IF MSTRLEN = 58.
                APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
                CLEAR: LS_LINE-INFO, LS_LINE-KEY.
            ENDIF.
        ENDLOOP.
        IF LS_LINE-INFO <> ', ' AND LS_LINE-INFO <> ''.
            APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
        ENDIF.
    ENDIF.
ENDIF.

```

```

        ENDIF.
    ELSE.
        CONCATENATE S_WERKS-LOW '-' To '-' S_WERKS-HIGH INTO LS_LINE-
INFO.
        APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
    ENDIF.
ENDIF.

IF NOT S_VBELN-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Quotation / Order No.'.
    LS_LINE-INFO = S_VBELN-LOW.
    IF NOT S_VBELN-HIGH IS INITIAL.
        CONCATENATE LS_LINE-INFO '-' To '-' S_VBELN-HIGH INTO
LS_LINE-INFO.
    ENDIF.
    APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
ENDIF.

IF NOT S_KUNNR-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Customer'.
    LS_LINE-INFO = S_KUNNR-LOW .
    IF NOT S_KUNNR-HIGH IS INITIAL.
        CONCATENATE LS_LINE-INFO '-' To '-' S_KUNNR-HIGH INTO
LS_LINE-INFO.
    ENDIF.
    APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
ENDIF.

IF NOT S_MATNR-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Material No.'.
    LS_LINE-INFO = S_MATNR-LOW .
    IF NOT S_MATNR-HIGH IS INITIAL.
        CONCATENATE LS_LINE-INFO '-' To '-' S_MATNR-HIGH INTO
LS_LINE-INFO.
    ENDIF.
    APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
ENDIF.

IF NOT S_AUART-LOW IS INITIAL.
    CLEAR LS_LINE.
    LS_LINE-TYP = 'S'.
    LS_LINE-KEY = 'Order Type'.
    IF NOT S_AUART-LOW IS INITIAL.
        LS_LINE-INFO = S_AUART-LOW.
    ENDIF.
    IF NOT S_AUART-HIGH IS INITIAL.
        CONCATENATE LS_LINE-INFO '-' To '-' S_AUART-HIGH INTO
LS_LINE-INFO.
    ENDIF.
    APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
ENDIF.

```

```

CLEAR LS_LINE.
IF S_EDATU[] IS INITIAL.
  LS_LINE-INFO = 'As On Today'.
ELSE.
  MDATE = S_EDATU-LOW.
  IF S_EDATU-LOW IS INITIAL.
    MDATE = '20060101'.
  ENDIF.
  CONCATENATE MDATE+6(2) '/' MDATE+4(2) '/' MDATE+(4) INTO
LS_LINE-INFO.
  ENDIF.
  LS_LINE-TYP = 'S'.
  LS_LINE-KEY = 'Schedule Line Date'.
  IF NOT S_EDATU-HIGH IS INITIAL.
    CONCATENATE LS_LINE-INFO '- To - ' S_EDATU-HIGH+6(2) '/'
S_EDATU-HIGH+4(2) '/' S_EDATU-HIGH+(4) INTO LS_LINE-INFO.
  ELSE.
    IF LS_LINE-INFO <> 'As On Today'.
      CONCATENATE LS_LINE-INFO '- To - ' S_EDATU-LOW+6(2) '/'
S_EDATU-LOW+4(2) '/' S_EDATU-LOW+(4) INTO LS_LINE-INFO.
    ENDIF.
  ENDIF.
  APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.

IF NOT S_STAT-LOW IS INITIAL.
  CLEAR LS_LINE.
  LS_LINE-TYP = 'S'.
  LS_LINE-KEY = 'Item Delivery Status'.
  IF NOT S_STAT-LOW IS INITIAL.
    LS_LINE-INFO = S_STAT-LOW.
  ENDIF.
  IF NOT S_STAT-HIGH IS INITIAL.
    CONCATENATE LS_LINE-INFO '- To - ' S_STAT-HIGH INTO LS_LINE-
INFO.
  ENDIF.
  APPEND LS_LINE TO E04_LT_TOP_OF_PAGE.
ENDIF.

ENDFORM.                " e04_comment_build

*&-----
*&
*&      Form  TOP_OF_PAGE
*&-----
*
*      text
*-----
*
*      -->P_GT_LIST_TOP_OF_PAGE[]  text
*-----
*

FORM TOP_OF_PAGE.
  CALL FUNCTION 'REUSE_ALV_COMMENTARY_WRITE'

```

```

EXPORTING
  IT_LIST_COMMENTARY = GT_LIST_TOP_OF_PAGE.
ENDFORM.                "top_of_page

```

```

*-----*
*           *
*-----*

```

```

FORM USER_COMMAND USING R_UCOMM LIKE
  SY-UCOMM RS_SELFIELD TYPE SLIS_SELFIELD.
CASE SY-UCOMM.
  WHEN '&STK'.
    PERFORM SHOW_STOCK.
  WHEN 'OTHERS'.
    READ TABLE FINAL INDEX RS_SELFIELD-TABINDEX.
    SET PARAMETER ID 'AUN' FIELD FINAL-VBELN.
    CALL TRANSACTION 'VA03' AND SKIP FIRST SCREEN.
ENDCASE.

```

```

ENDFORM.                "USER_COMMAND

```

```

FORM S100 USING lt_extab type slis_t_extab.
  set pf-status 'S100'.

```

```

ENDFORM.                "USER_COMMAND

```

```

*&-----*
*&
*&      Form  SUMMARISE_DATA
*&-----*
*
*      text
*-----*
*
*  --> p1      text
*  <-- p2      text
*-----*
*

```

```

FORM SUMMARISE_DATA .
  DATA: MNETWR LIKE VBAP-NETWR,
         MBALWR LIKE VBAP-NETWR,
         MLOCVAL LIKE VBAP-NETWR,
         MBALOC LIKE VBAP-NETWR.

```

```

SORT FINAL BY VBELN.
FINAL1[] = FINAL[].
REFRESH FINAL.
CLEAR FINAL.
LOOP AT FINAL1.
  AT END OF VBELN.
    SUM.
    MNETWR = FINAL1-NETWR.
    MBALWR = FINAL1-BALWR.
    MLOCVAL = FINAL1-LOCVAL.
    MBALOC = FINAL1-BALOC.
  ENDAT.
  IF MNETWR > 0.

```

```

FINAL = FINAL1.
FINAL-NETWR = MNETWR.
FINAL-BALWR = MBALWR.
FINAL-LOCVAL = MLOCVAL.
FINAL-BALLOC = MBALLOC.
APPEND FINAL.
MNETWR = MBALWR = MLOCVAL = 0.
ENDIF.
ENDLOOP.

```

```

ENDFORM.                                " SUMMARISE_DATA
*&-----
*
*&      Form  GET_CREDIT_CHECK
*&-----
*
*      text
*-----
*
*  --> p1      text
*  <-- p2      text
*-----
*
FORM GET_CREDIT_CHECK .
DATA: MDOMNAME LIKE  DD07V-DOMNAME,
      MDOMVALUE LIKE DD07V-DOMVALUE_L,
      MDDTEXT LIKE  DD07V-DDTEXT.

FINAL1[] = FINAL[].
SORT FINAL1 BY VBELN.
DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING VBELN.

SELECT VBELN CMGST INTO CORRESPONDING FIELDS OF TABLE I_VBUK
      FROM VBUK
      FOR ALL ENTRIES IN FINAL1
      WHERE VBELN = FINAL1-VBELN.

LOOP AT I_VBUK.
  MDOMNAME = 'CMGST'.
  MDOMVALUE = I_VBUK-CMGST.

  CALL FUNCTION 'DOMAIN_VALUE_GET'
    EXPORTING
      I_DOMNAME      = MDOMNAME
      I_DOMVALUE     = MDOMVALUE
    IMPORTING
      E_DDTEXT       = MDDTEXT
    EXCEPTIONS
      NOT_EXIST      = 1
      OTHERS         = 2 .

  I_VBUK-CRSTAT = MDDTEXT.
  MODIFY I_VBUK.
  CLEAR MDDTEXT.
  ENDLOOP.

LOOP AT I_VBUK.

```

```

      LOOP AT FINAL WHERE VBELN = I_VBUK-VBELN.
        FINAL-CRSTAT = I_VBUK-CRSTAT.
        MODIFY FINAL.
        ENDLOOP.
      ENDLOOP.

LOOP AT FINAL WHERE CRSTAT = ''.
  FINAL-CRSTAT = 'Released'.
  MODIFY FINAL.
  ENDLOOP.

ENDFORM.                                " GET_CREDIT_CHECK
*&-----
*
*&      Form  GET_DLV_BLOCK
*&-----
*
*      text
*-----
*
* --> p1      text
* <-- p2      text
*-----
*
FORM GET_DLV_BLOCK .
FINAL1[] = FINAL[].
SORT FINAL1 BY LIFSK.
DELETE FINAL1 WHERE LIFSK = ''.
DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING LIFSK.

LOOP AT FINAL1.
  SELECT SINGLE VTEXT INTO FINAL1-VTEXT
    FROM TVLST
    WHERE SPRAS EQ SY-LANGU
    AND LIFSP EQ FINAL1-LIFSK.
  MODIFY FINAL1.
  ENDLOOP.

SORT FINAL BY LIFSK.
LOOP AT FINAL1.
  LOOP AT FINAL WHERE LIFSK = FINAL1-LIFSK.
    FINAL-VTEXT = FINAL1-VTEXT.
    MODIFY FINAL.
  ENDLOOP.
ENDLOOP.

LOOP AT FINAL WHERE VTEXT = ''.
  FINAL-VTEXT = 'Released'.
  MODIFY FINAL.
  ENDLOOP.
SORT FINAL BY VKORG WERKS KUNNR VBELN POSNR EDATU.

ENDFORM.                                " GET_DLV_BLOCK
*&-----
*
*&      Form  GET_CARRIER

```

```

*&-----
*
*      text
*-----
*
* --> p1      text
* <-- p2      text
*-----
*
FORM GET_CARRIER .
DATA: MID      LIKE THEAD-TDID,
      MNAME    LIKE THEAD-TDNAME,
      MOBJ     LIKE THEAD-TDOBJECT VALUE 'VBBK',
      MLANG    LIKE THEAD-TDSPRAS VALUE 'E'.

DATA: TDLINE   LIKE TLINE OCCURS 0 WITH HEADER LINE.

FINAL1[] = FINAL[].
SORT FINAL1 BY VBELN.
DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING VBELN.

LOOP AT FINAL1.
  REFRESH TDLINE.
  CLEAR TDLINE.
  MNAME = FINAL1-VBELN.
  MID = 'Z001'.
  CALL FUNCTION 'READ_TEXT'
    EXPORTING
      CLIENT                = SY-MANDT
      ID                    = MID
      LANGUAGE               = MLANG
      NAME                   = MNAME
      OBJECT                 = MOBJ
    TABLES
      LINES                  = TDLINE
    EXCEPTIONS
      ID                     = 1
      LANGUAGE               = 2
      NAME                   = 3
      NOT_FOUND              = 4
      OBJECT                 = 5
      REFERENCE_CHECK        = 6
      WRONG_ACCESS_TO_ARCHIVE = 7
      OTHERS                 = 8 .

  LOOP AT TDLINE.
    CONCATENATE FINAL1-CARRIER TDLINE-TDLINE INTO FINAL1-CARRIER
    SEPARATED BY SPACE.
  ENDLOOP.
  MODIFY FINAL1.
ENDLOOP.

LOOP AT FINAL1.
  LOOP AT FINAL WHERE VBELN = FINAL1-VBELN.
    FINAL-CARRIER = FINAL1-CARRIER.
    MODIFY FINAL.
  ENDLOOP.
ENDLOOP.

```

```

ENDFORM.                                " GET_CARRIER

*&-----
*
*&      Form  SHOW_STOCK
*&-----
*
*      text
*-----
*
*  --> p1      text
*  <-- p2      text
*-----
*
form SHOW_STOCK .

RANGES:  RMATNR FOR MARA-MATNR,
         RWERKS FOR VBAP-WERKS.

FINAL1[] = FINAL[].
SORT FINAL1 BY MATNR.
DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING MATNR.

RMATNR-OPTION = 'EQ'.
RMATNR-SIGN = 'I'.
LOOP AT FINAL1.
  RMATNR-LOW = FINAL1-MATNR.
  APPEND RMATNR.
ENDLOOP.

RWERKS-OPTION = 'EQ'.
RWERKS-SIGN = 'I'.
LOOP AT FINAL1.
  RWERKS-LOW = FINAL1-WERKS.
  APPEND RWERKS.
ENDLOOP.

FINAL1[] = FINAL[].
SORT FINAL1 BY WERKS.
DELETE ADJACENT DUPLICATES FROM FINAL1 COMPARING WERKS.

SUBMIT RM07MLBS WITH MATNR IN RMATNR
        WITH WERKS IN RWERKS
        WITH P_VARI EQ '/ZTRV'
        AND RETURN.

endform.                                " SHOW_STOCK
??

??

??

??

```


