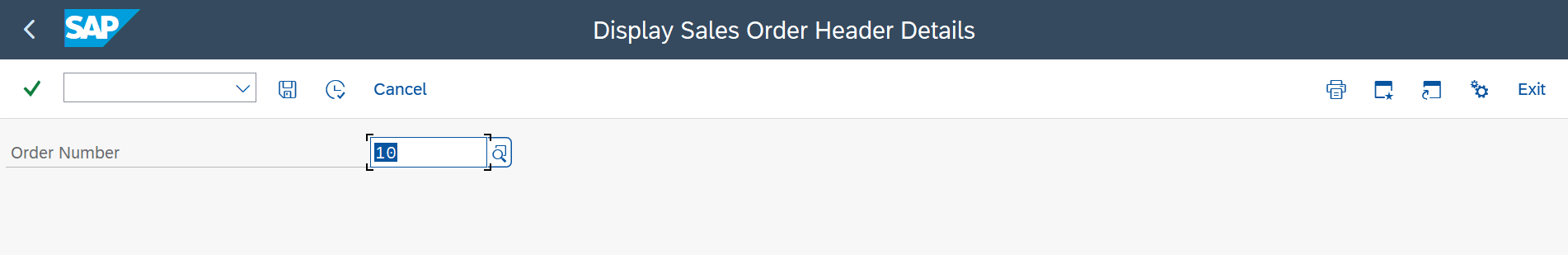
**Classical Reports**

Example 1: Display Sales Order Header Details with the given Order Number

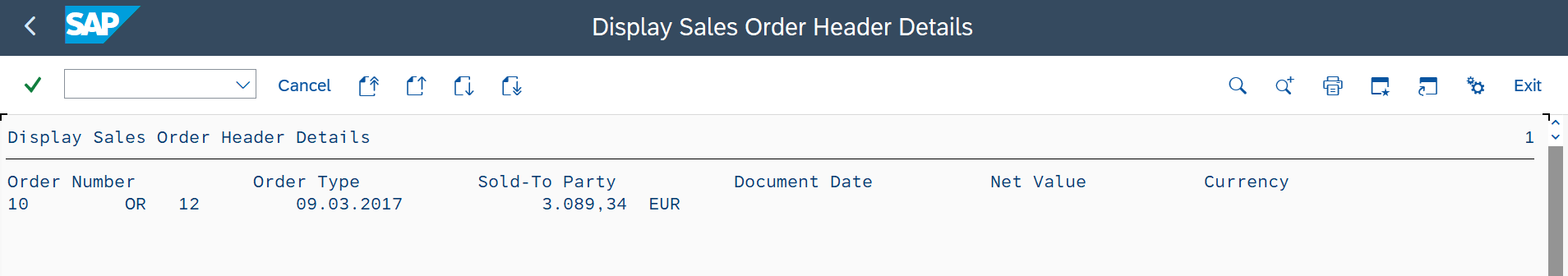
Program:

| REPORT zcr\_sales\_header\_details\_01.  PARAMETERS p\_vbeln TYPE vbak-vbeln.  TYPES: BEGIN OF ty\_sales\_order,  vbeln TYPE vbak-vbeln,  auart TYPE vbak-auart,  kunnr TYPE vbak-kunnr,  audat TYPE vbak-audat,  netwr TYPE vbak-netwr,  waerk TYPE vbak-waerk,  END OF ty\_sales\_order.  DATA ls\_sales\_order TYPE ty\_sales\_order.  START-OF-SELECTION.  SELECT SINGLE vbeln,  auart,  kunnr,  audat,  netwr,  waerk  FROM vbak  WHERE vbeln = @p\_vbeln  INTO @ls\_sales\_order.   WRITE: TEXT-001, "Order Number  TEXT-002, "Order Type  TEXT-003, "Sold-To Party  TEXT-004, "Document Date  TEXT-005, "Net Value  TEXT-006. "Currency   WRITE: / ls\_sales\_order-vbeln,  ls\_sales\_order-auart,  ls\_sales\_order-kunnr,  ls\_sales\_order-audat,  ls\_sales\_order-netwr,  ls\_sales\_order-waerk. |
| --- |

Output:



On Execute



Here Column Header and Data are not aligned properly.

Example 2: Display Sales Order Header Details with the given Order Number and the Column header should be appropriately aligned with the data

Output:



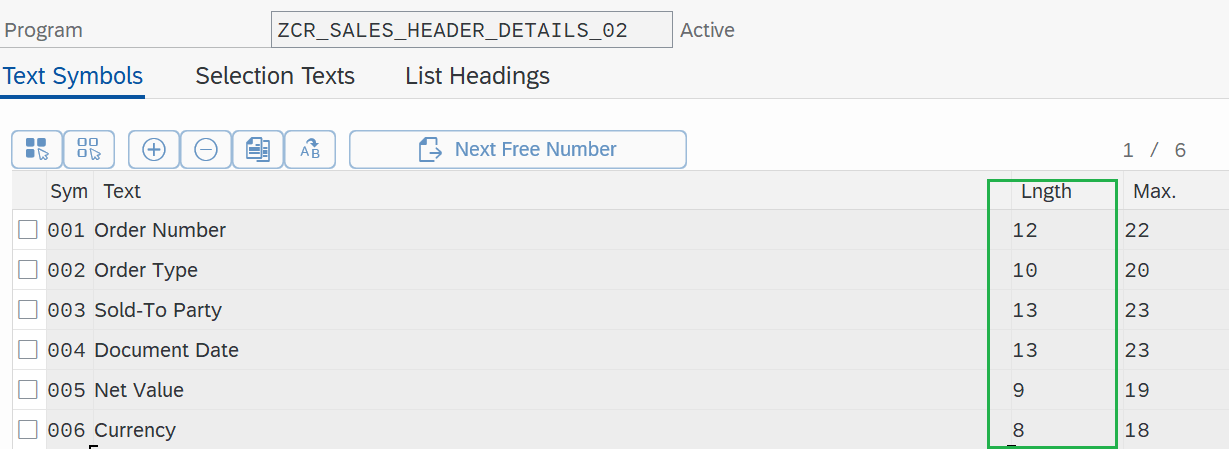
**1st Version:**

Program: The remaining code is the same as Example 1

| WRITE: / ls\_sales\_order-vbeln UNDER text-001,  ls\_sales\_order-auart UNDER text-002,  ls\_sales\_order-kunnr UNDER text-003,  ls\_sales\_order-audat UNDER text-004,  ls\_sales\_order-netwr UNDER text-005,  ls\_sales\_order-waerk UNDER text-006. |
| --- |

**2nd Version:**

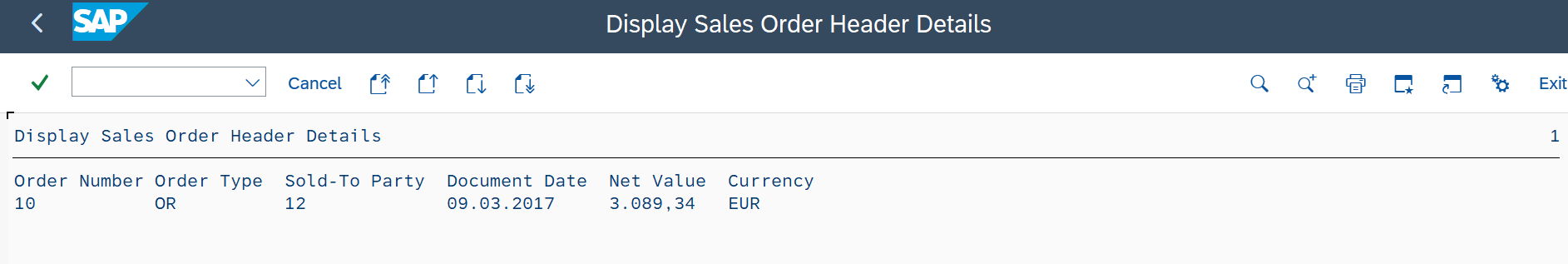
Program:



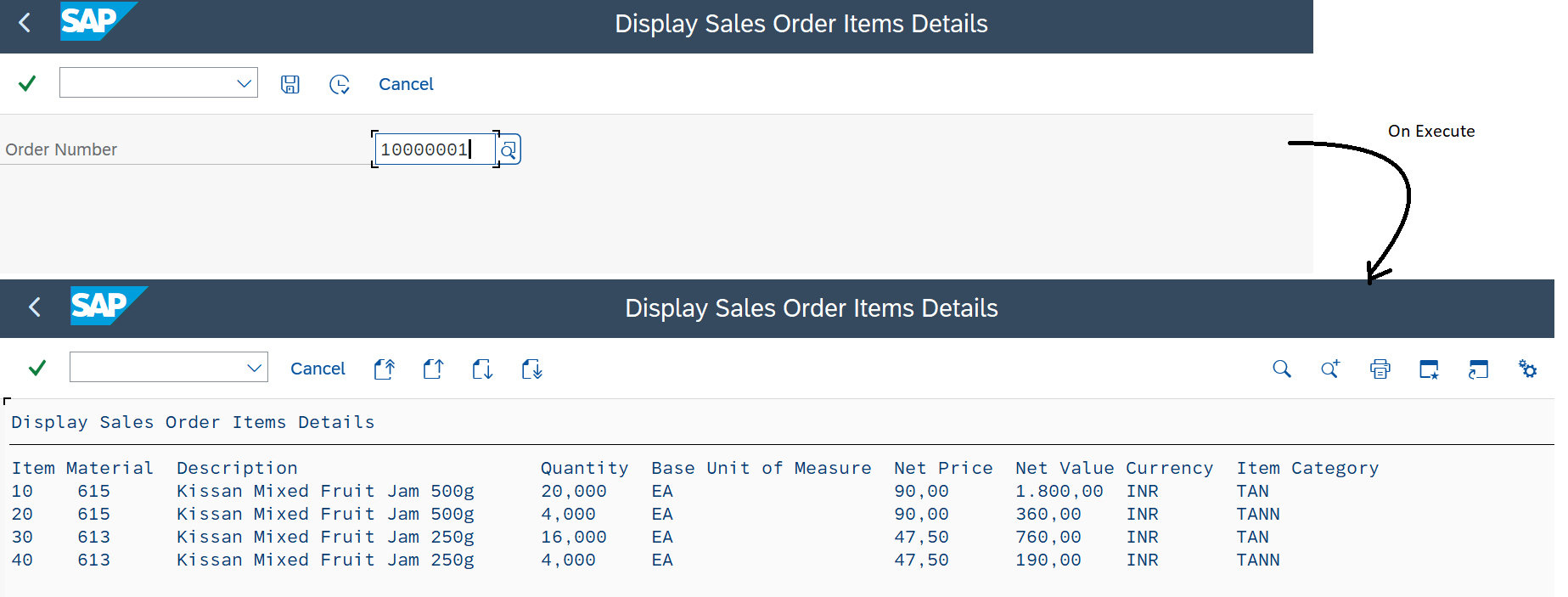
Here we are giving space value based on the length of Text Symbols Text + 2(Extra Space)

| WRITE: TEXT-001, "Order Number  14 TEXT-002, "Order Type (12+2)   26 TEXT-003, "Sold-To Party (14+10+2)  41 TEXT-004, "Document Date (26+13+2)  56 TEXT-005, "Net Value  67 TEXT-006. "Currency   WRITE: / ls\_sales\_order-vbeln UNDER text-001,  ls\_sales\_order-auart UNDER text-002,  ls\_sales\_order-kunnr UNDER text-003,  ls\_sales\_order-audat UNDER text-004,  ls\_sales\_order-netwr UNDER text-005 LEFT-JUSTIFIED,  ls\_sales\_order-waerk UNDER text-006. |
| --- |

Output 2: We can also give custom space between column headers by directly specifying the value

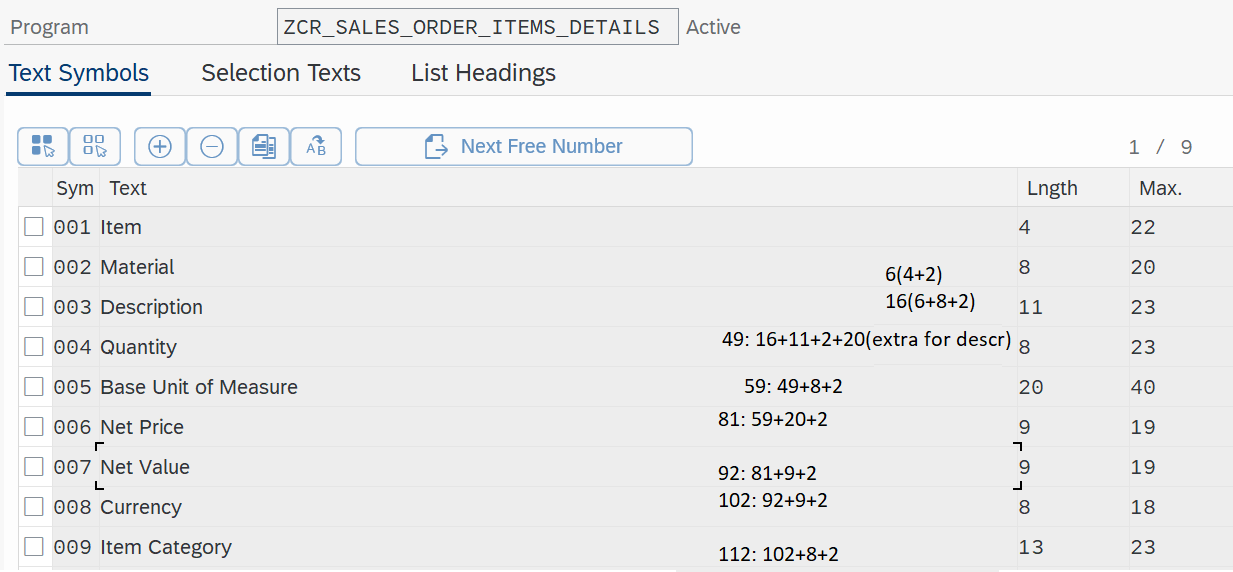


Example 3: Based on a Given Order number(Parameter) display Sales Order Items Details



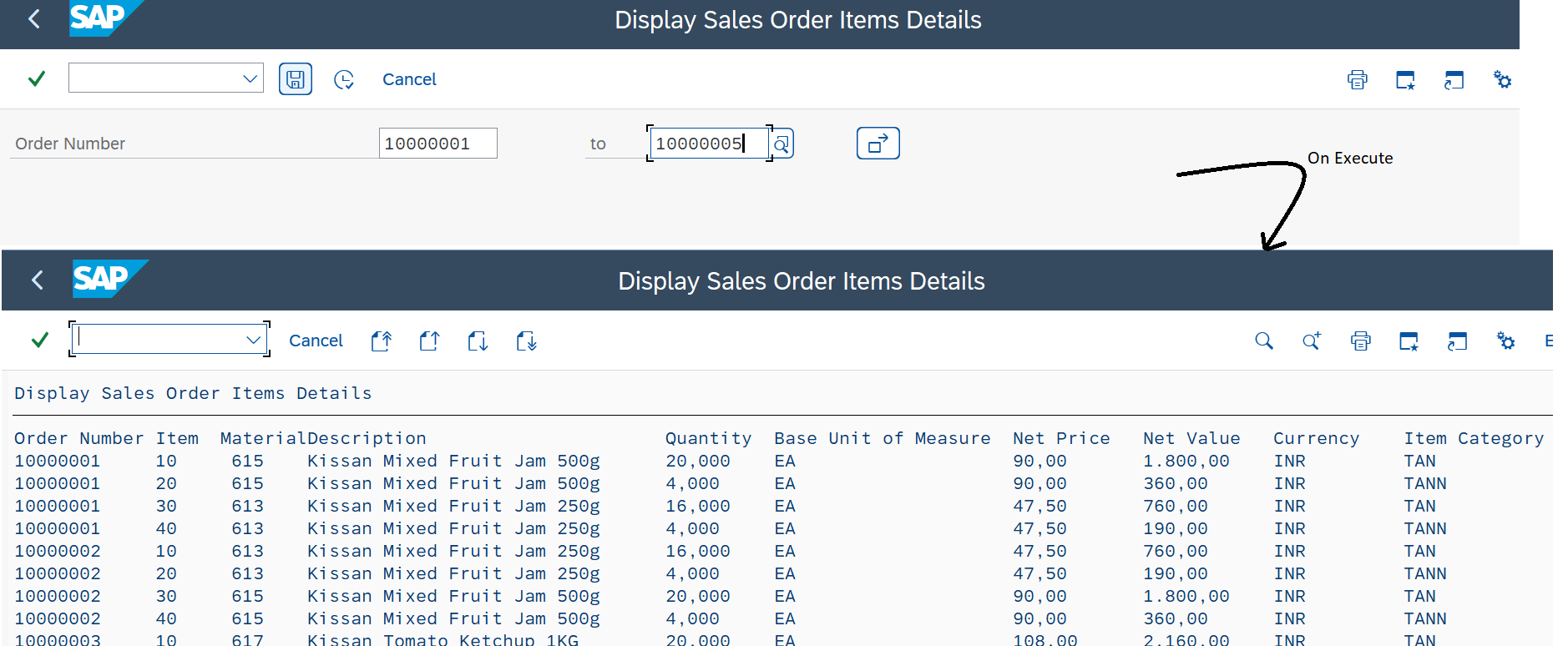
Program:

| REPORT zcr\_sales\_order\_items\_details.  PARAMETERS p\_vbeln TYPE vbak-vbeln.  START-OF-SELECTION.  SELECT posnr,  matnr,  arktx,  kwmeng,  meins,  netpr,  netwr,  waerk,  pstyv  FROM vbap  WHERE vbeln = @p\_vbeln  INTO TABLE @DATA(lt\_sales\_order\_items).   WRITE: TEXT-001,"Item  6 TEXT-002,"Material  16 TEXT-003,"Description \*Adding an extra 30 spaces because it contains a description value length is 40char  49 TEXT-004,"Quantity  59 TEXT-005, "Base Unit of Measure  81 TEXT-006, "Net Price  92 TEXT-007, "Net Value  102 TEXT-008,"Currency  112 TEXT-009."Item Category   LOOP AT lt\_sales\_order\_items ASSIGNING FIELD-SYMBOL(<lwa\_sales\_order\_items>).   WRITE: / |{ <lwa\_sales\_order\_items>-posnr ALPHA = OUT }| UNDER TEXT-001, "Removing Zeros from ItemNumber befor display  | { <lwa\_sales\_order\_items>-matnr ALPHA = OUT } | UNDER TEXT-002,  <lwa\_sales\_order\_items>-arktx UNDER TEXT-003,  <lwa\_sales\_order\_items>-kwmeng UNDER TEXT-004 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-meins UNDER TEXT-005,  <lwa\_sales\_order\_items>-netpr UNDER TEXT-006 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-netwr UNDER TEXT-007 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-waerk UNDER TEXT-008,  <lwa\_sales\_order\_items>-pstyv UNDER TEXT-009.  ENDLOOP. |
| --- |



Example 4: Based on a Given Order number(Select options) display Sales Order Items Details

Output:

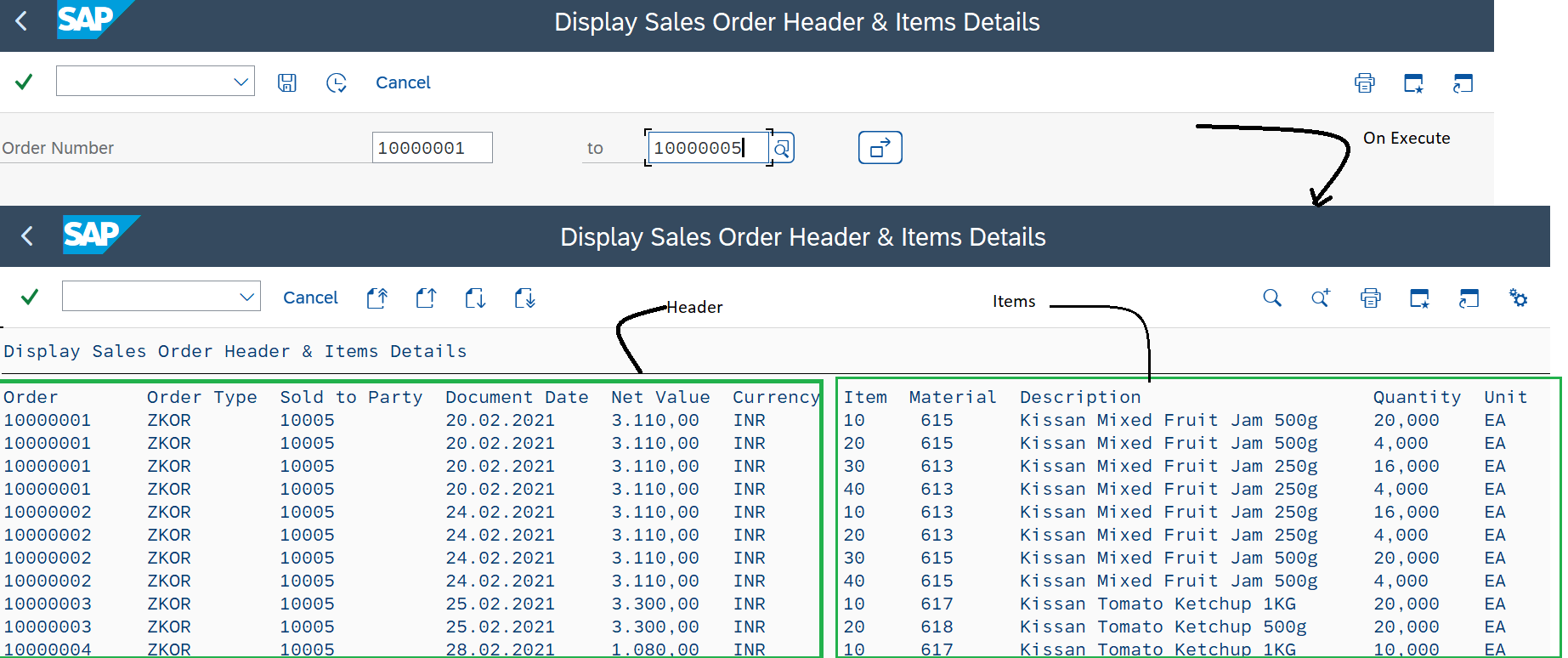


Program:

| REPORT zcr\_sales\_order\_items\_details2.  DATA lv\_vbeln TYPE vbak-vbeln.  SELECT-OPTIONS so\_vbeln FOR lv\_vbeln.  START-OF-SELECTION.  SELECT vbeln,  posnr,  matnr,  arktx,  kwmeng,  meins,  netpr,  netwr,  waerk,  pstyv  FROM vbap  WHERE vbeln IN @so\_vbeln  INTO TABLE @DATA(lt\_sales\_order\_items).   WRITE: TEXT-000,  14 TEXT-001,"Item  20 TEXT-002,"Material  28 TEXT-003,"Description \*Adding an extra 30 spaces because it contains a description value of up to 40char  61 TEXT-004,"Quantity  71 TEXT-005, "Base Unit of Measure  93 TEXT-006, "Net Price  105 TEXT-007, "Net Value  117 TEXT-008,"Currency  129 TEXT-009."Item Category   LOOP AT lt\_sales\_order\_items ASSIGNING FIELD-SYMBOL(<lwa\_sales\_order\_items>).   WRITE: / <lwa\_sales\_order\_items>-vbeln UNDER TEXT-000,  |{ <lwa\_sales\_order\_items>-posnr ALPHA = OUT }| UNDER TEXT-001, "Removing Zeros from ItemNumber before display  | { <lwa\_sales\_order\_items>-matnr ALPHA = OUT } | UNDER TEXT-002,  <lwa\_sales\_order\_items>-arktx UNDER TEXT-003,  <lwa\_sales\_order\_items>-kwmeng UNDER TEXT-004 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-meins UNDER TEXT-005,  <lwa\_sales\_order\_items>-netpr UNDER TEXT-006 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-netwr UNDER TEXT-007 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-waerk UNDER TEXT-008,  <lwa\_sales\_order\_items>-pstyv UNDER TEXT-009.  ENDLOOP. |
| --- |

Example 5: Based on a Given Order number(Select options) display the Sales Order header and Items Details

Output:

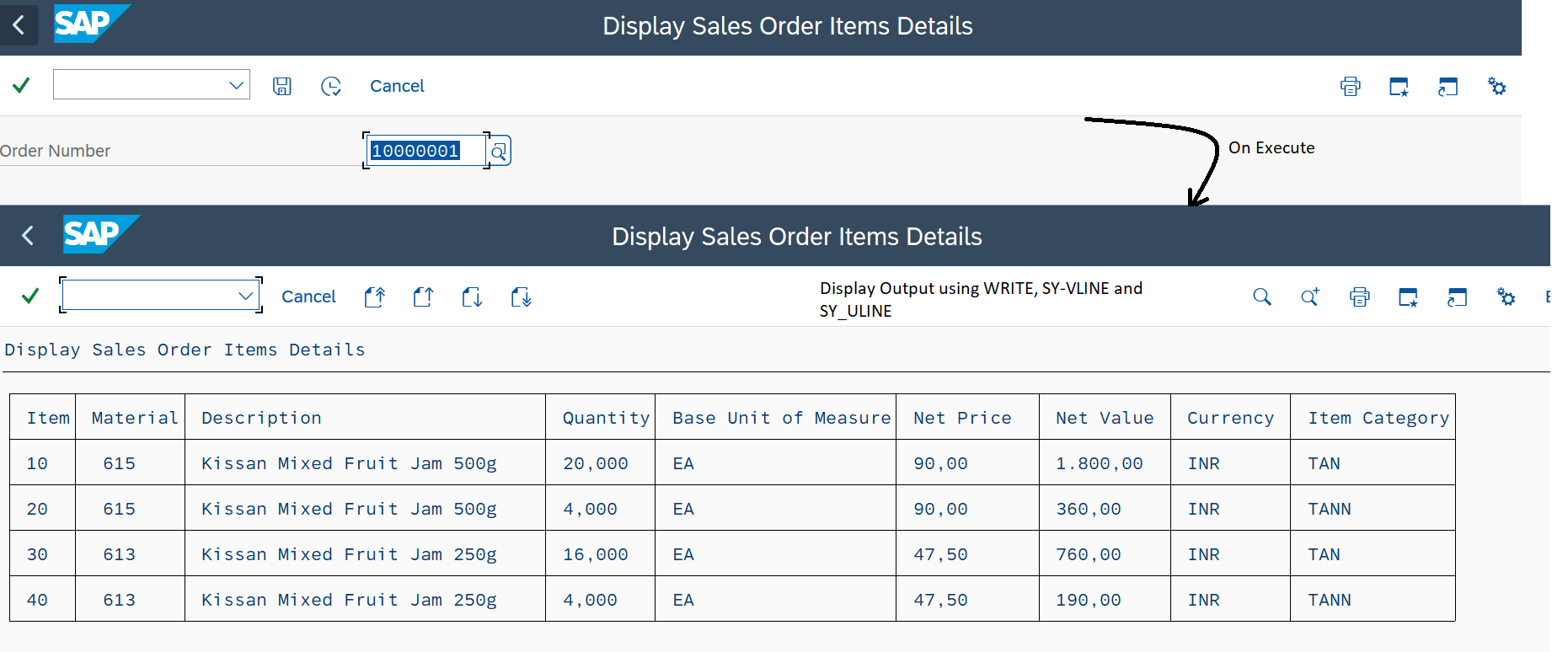


Program:

| REPORT zcr\_sales\_order\_items\_details3.  DATA lv\_vbeln TYPE vbak-vbeln.  SELECT-OPTIONS so\_vbeln FOR lv\_vbeln.  START-OF-SELECTION.  SELECT a~vbeln,  a~auart,  a~kunnr,  a~audat,  a~netwr,  a~waerk,  b~posnr,  b~matnr,  b~arktx,  b~kwmeng,  b~meins  FROM vbak AS a  INNER JOIN vbap AS b  ON a~vbeln = b~vbeln  WHERE a~vbeln IN @so\_vbeln  INTO TABLE @DATA(lt\_sales\_order).   WRITE: TEXT-000,"Order  14 TEXT-001, "Order Type  26 TEXT-002, "Sold to Party  41 TEXT-003, "Document Date  56 TEXT-004, "Net Value  67 TEXT-005, "Currency  77 TEXT-006, "Item  83 TEXT-007, "Material  93 TEXT-008, "Description  125 TEXT-009,"Quantity  135 TEXT-010. "Unit   LOOP AT lt\_sales\_order ASSIGNING FIELD-SYMBOL(<lwa\_sales\_order>).   WRITE: / <lwa\_sales\_order>-vbeln UNDER TEXT-000,  <lwa\_sales\_order>-auart UNDER TEXT-001,  <lwa\_sales\_order>-kunnr UNDER TEXT-002,  <lwa\_sales\_order>-audat UNDER TEXT-003,  <lwa\_sales\_order>-netwr UNDER TEXT-004 LEFT-JUSTIFIED,  <lwa\_sales\_order>-waerk UNDER TEXT-005,  |{ <lwa\_sales\_order>-posnr ALPHA = OUT }| UNDER TEXT-006, "Removing Zeros from ItemNumber before display  | { <lwa\_sales\_order>-matnr ALPHA = OUT } | UNDER TEXT-007,  <lwa\_sales\_order>-arktx UNDER TEXT-008,  <lwa\_sales\_order>-kwmeng UNDER TEXT-009 LEFT-JUSTIFIED,  <lwa\_sales\_order>-meins UNDER TEXT-010.   ENDLOOP. |
| --- |

Example 6: Display Item Details in Table Format using WRITE, SY-VLINE and SY\_ULINE System variables

Output:

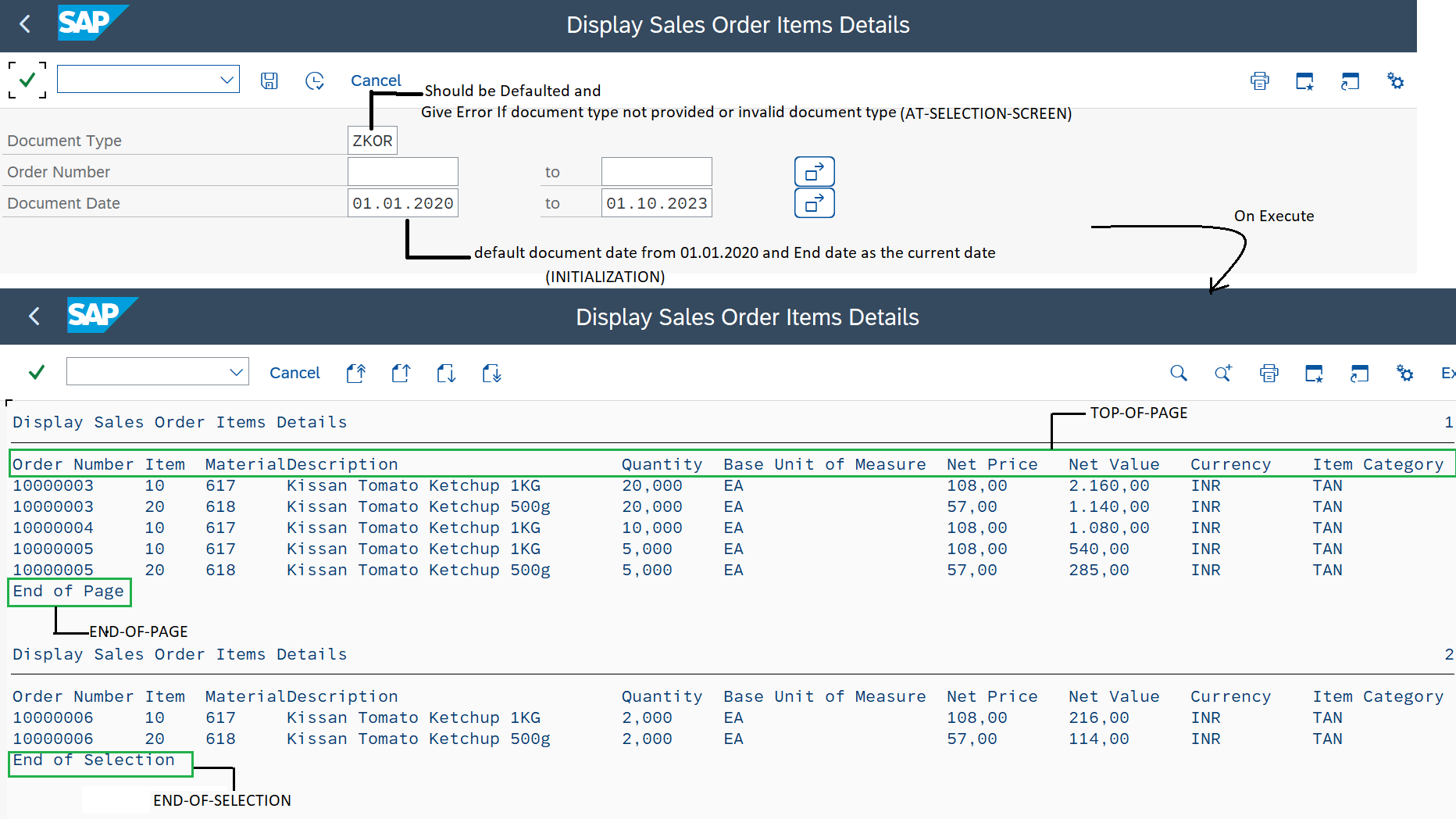


Program:

| REPORT zcr\_sales\_order\_items\_details4.  PARAMETERS: p\_vbeln TYPE vbak-vbeln.  START-OF-SELECTION.  SELECT posnr,  matnr,  arktx,  kwmeng,  meins,  netpr,  netwr,  waerk,  pstyv  FROM vbap  WHERE vbeln = @p\_vbeln  INTO TABLE @DATA(lt\_sales\_order\_items).   WRITE sy-uline(133).  NEW-LINE.   WRITE: sy-vline, TEXT-001, "Item  7 sy-vline, TEXT-002,"Material  17 sy-vline,TEXT-003,"Description  50 sy-vline,TEXT-004,"Quantity  60 sy-vline, TEXT-005, "Base Unit of Measure  82 sy-vline,TEXT-006,"Net Price  95 sy-vline,TEXT-007,"Net Value  107 sy-vline,TEXT-008,"Currency  118 sy-vline,TEXT-009,"Item Category  133 sy-vline.   WRITE sy-uline(133).   LOOP AT lt\_sales\_order\_items ASSIGNING FIELD-SYMBOL(<lwa\_sales\_order\_items>).   WRITE: / sy-vline,|{ <lwa\_sales\_order\_items>-posnr ALPHA = OUT }| UNDER TEXT-001, "Removing Zeros from ItemNumber befor display  7 sy-vline,| { <lwa\_sales\_order\_items>-matnr ALPHA = OUT } | UNDER TEXT-002,  17 sy-vline,<lwa\_sales\_order\_items>-arktx UNDER TEXT-003,  50 sy-vline,<lwa\_sales\_order\_items>-kwmeng UNDER TEXT-004 LEFT-JUSTIFIED,  60 sy-vline,<lwa\_sales\_order\_items>-meins UNDER TEXT-005,  82 sy-vline,<lwa\_sales\_order\_items>-netpr UNDER TEXT-006 LEFT-JUSTIFIED,  95 sy-vline,<lwa\_sales\_order\_items>-netwr UNDER TEXT-007 LEFT-JUSTIFIED,  107 sy-vline,<lwa\_sales\_order\_items>-waerk UNDER TEXT-008,  118 sy-vline,<lwa\_sales\_order\_items>-pstyv UNDER TEXT-009,  133 sy-vline.   WRITE sy-uline(133).  ENDLOOP. |
| --- |

Example 7: Classical Report Events

Output:



Program:

| REPORT zcr\_events LINE-COUNT 10(2).  DATA: lv\_vbeln TYPE vbak-vbeln,  lv\_audat TYPE vbak-audat.  PARAMETERS p\_auart TYPE vbak-auart DEFAULT 'ZKOR'."Document Type  SELECT-OPTIONS: so\_vbeln FOR lv\_vbeln,"Order Number  so\_audat FOR lv\_audat."Document Date  INITIALIZATION. \*\*\*\*When we have to propose a calculated default value then we use initialization event \*\*\*\*otherwise provide value at the time of declaration  so\_audat-sign = 'I'.  so\_audat-option = 'BT'.  so\_audat-low = '20200101'. "YYYYMMDD  so\_audat-high = sy-datum.  APPEND so\_audat.  AT SELECTION-SCREEN."It gets triggered on every action and it is used to validate the input  IF p\_auart IS INITIAL. \*\*\*\*Select document type  MESSAGE e000(zmsg\_01).  ELSE.  SELECT SINGLE auart  FROM tvak  WHERE auart EQ @p\_auart  INTO @DATA(lv\_auart).   IF lv\_auart IS INITIAL. \*\*\*\*Document Type &1 is invalid; enter valid document type  MESSAGE e001(zmsg\_01) WITH p\_auart.  ENDIF.  ENDIF.  \*AT SELECTION-SCREEN OUTPUT. \*AT SELECTION-SCREEN ON VALUE-REQUEST FOR {field}. \*AT SELECTION-SCREEN ON HELP-REQUEST FOR {}. \*AT SELECTION-SCREEN ON {Field}.  TOP-OF-PAGE.  WRITE: TEXT-000,  14 TEXT-001, "Item  20 TEXT-002, "Material  28 TEXT-003, "Description  61 TEXT-004, "Quantity  71 TEXT-005, "Base Unit of Measure  93 TEXT-006, "Net Price  105 TEXT-007, "Net Value  117 TEXT-008, "Currency  129 TEXT-009. "Item Category  END-OF-PAGE.  WRITE TEXT-010."End of Page  START-OF-SELECTION."Gets Trigger when we click on Execute  SELECT vbeln  FROM vbak  WHERE vbeln IN @so\_vbeln  AND audat IN @so\_audat  AND auart EQ @p\_auart  INTO TABLE @DATA(lt\_sales\_order).   IF NOT lt\_sales\_order IS INITIAL.  SELECT vbeln,  posnr,  matnr,  arktx,  kwmeng,  meins,  netpr,  netwr,  waerk,  pstyv  FROM vbap  FOR ALL ENTRIES IN @lt\_sales\_order  WHERE vbeln EQ @lt\_sales\_order-vbeln  INTO TABLE @DATA(lt\_sales\_order\_items).   CHECK NOT lt\_sales\_order\_items IS INITIAL.  ENDIF.   LOOP AT lt\_sales\_order\_items ASSIGNING FIELD-SYMBOL(<lwa\_sales\_order\_items>).   WRITE: / <lwa\_sales\_order\_items>-vbeln UNDER TEXT-000,  |{ <lwa\_sales\_order\_items>-posnr ALPHA = OUT }| UNDER TEXT-001,  |{ <lwa\_sales\_order\_items>-matnr ALPHA = OUT }| UNDER TEXT-002,  <lwa\_sales\_order\_items>-arktx UNDER TEXT-003,  <lwa\_sales\_order\_items>-kwmeng UNDER TEXT-004 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-meins UNDER TEXT-005,  <lwa\_sales\_order\_items>-netpr UNDER TEXT-006 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-netwr UNDER TEXT-007 LEFT-JUSTIFIED,  <lwa\_sales\_order\_items>-waerk UNDER TEXT-008,  <lwa\_sales\_order\_items>-pstyv UNDER TEXT-009.  ENDLOOP.  END-OF-SELECTION.  WRITE TEXT-011."End of Selection |
| --- |