Requirement: Program to display multiple sales document details using a class.

Step 1: Create a structure for select-options (sales document number).

Dictionary: Display Structure

Structure	ZMULTIPLE_SALES_ORDER		Active
Short Description	Multiple sales order details		

Attributes | Components | Input Help/Check | Currency/quantity fields

1 / 4

Component	Typing ...	Component Type	Data Type	Length	Decim...	Coordinate	Short Description	Group
SIGN	Types ▼	CHAR1	CHAR	1	0	0	Single-Character Flag	
OPTION	Types ▼	CHAR2	CHAR	2	0	0	Component of the Version Number	
LOW	Types ▼	VBELN_VA	CHAR	10	0	0	Sales Document	
HIGH	Types ▼	VBELN_VA	CHAR	10	0	0	Sales Document	

Step 2: Create another structure for required fields from different tables.

Dictionary: Change Structure

Structure	ZSALER_OREDER_DETAILS		Active
Short Description	Sales order details		

Attributes | Components | Input Help/Check | Currency/quantity fields

1 / 7

Component	Typing Method	Component Type	Data Type	Length	Decim...	Coordinate	Short Description	Group
VBELN	Types ▼	VBELN_VA	CHAR	10	0	0	Sales Document	
ERDAT	Types ▼	ERDAT	DATS	8	0	0	Record Created On	
ERZET	Types ▼	ERZET	TIMS	6	0	0	Entry time	
ERNAM	Types ▼	ERNAM	CHAR	12	0	0	Name of Person Responsible for Creating the Object	
VBTYP	Types ▼	VBTYPL	CHAR	4	0	0	SD Document Category	
POSNR	Types ▼	POSNR_VA	NUMC	6	0	0	Sales Document Item	
MATNR	Types ▼	MATNR	CHAR	40	0	0	Material Number	

Step 3: Create table type for both the structures.

Dictionary: Change Table Type

Table Type	ZT_MULTIPLE_SALES_ORDER	Active
Short text	table type	

Attributes | Line Type | Initialization and Access | Primary Key | Secondary Ke

⦿ Line Type   ZMULTIPLE_SALES_ORDER

◯ Built-in type
  Data Type

Dictionary: Change Table Type

Table Type	ZT_SALER_OREDER_DETAILS	Active
Short text	ZSALER_OREDER_DETAILS	

Attributes | Line Type | Initialization and Access | Primary Key | Secondary Ke
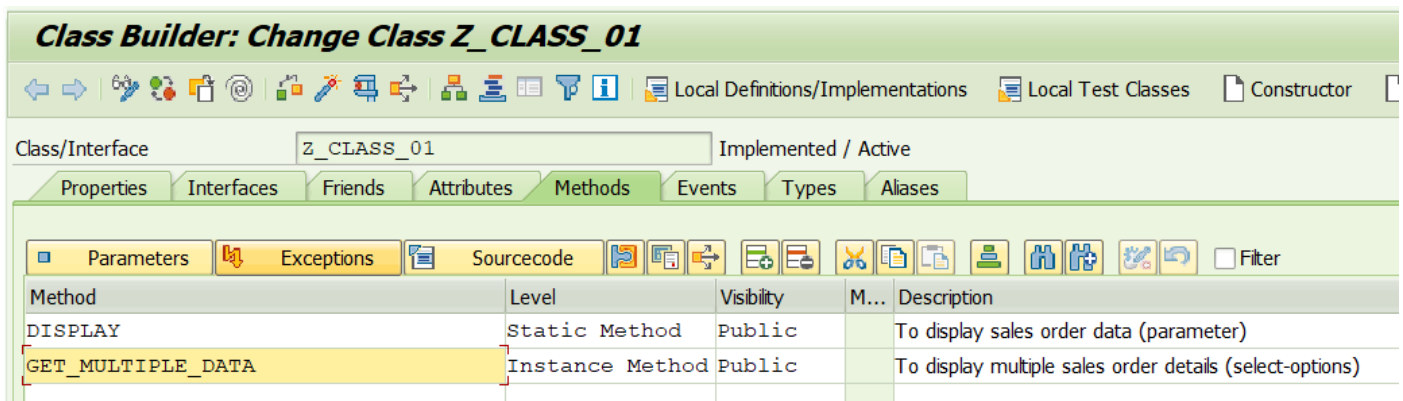
⦿ Line Type   ZSALER_OREDER_DETAILS

◯ Built-in type
  Data Type

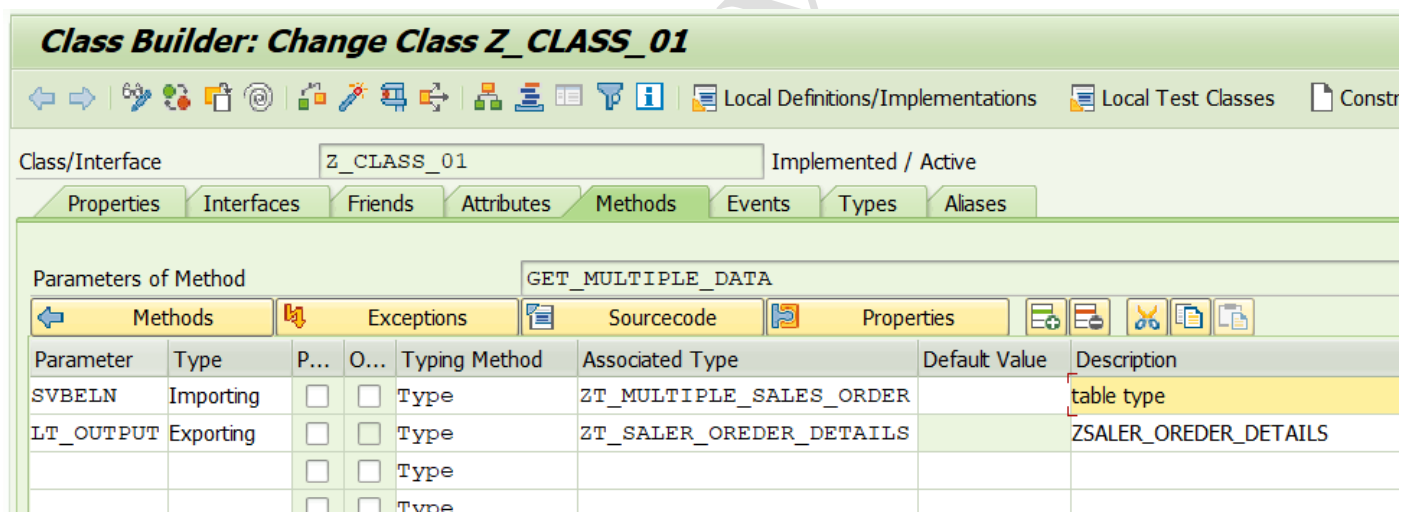Step 4: Create a class using class builder t-code(se24).

Step 5: Choose type as Usual ABAP Class and uncheck as final class.

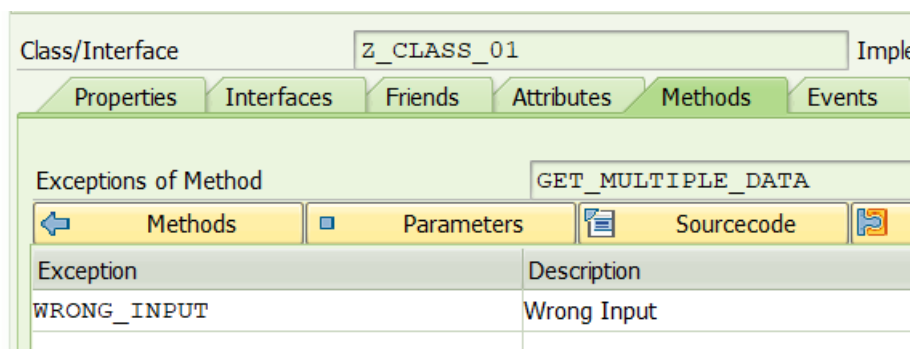Step 6: Write a method name like "GET_MULTIPLE_DATA".

Class Builder: Change Class Z_CLASS_01

Class/Interface   Z_CLASS_01   Implemented / Active

| Properties | Interfaces | Friends | Attributes | Methods | Events | Types | Aliases |

Method	Level	Visibility	M...	Description
DISPLAY	Static Method	Public		To display sales order data (parameter)
GET_MULTIPLE_DATA	Instance Method	Public		To display multiple sales order details (select-options)

Step 7: Select "parameter" button.

Step 8: Write Import/Export parameters.

Class Builder: Change Class Z_CLASS_01

Class/Interface   Z_CLASS_01   Implemented / Active

| Properties | Interfaces | Friends | Attributes | Methods | Events | Types | Aliases |

Parameters of Method   GET_MULTIPLE_DATA

Parameter	Type	P...	O...	Typing Method	Associated Type	Default Value	Description
SVBELN	Importing	☐	☐	Type	ZT_MULTIPLE_SALES_ORDER		table type
LT_OUTPUT	Exporting	☐	☐	Type	ZT_SALER_OREDER_DETAILS		ZSALER_OREDER_DETAILS
		☐	☐	Type			
		☐	☐	Type			

Note: For select-options and required fields. Give Table type for associated type.

Step 9: Select "exception" button and write exception.

Class/Interface   Z_CLASS_01   Imple

| Properties | Interfaces | Friends | Attributes | Methods | Events |

Exceptions of Method   GET_MULTIPLE_DATA

Exception	Description
WRONG_INPUT	Wrong Input

Step 10: Select a "sourcecode" button.

Step 11: Write source code in between method and endmethod.

```abap
METHOD get_multiple_data.

  TYPES: BEGIN OF lty_data,
       vbeln TYPE vbeln_va,
       erdat TYPE erdat,
       erzet TYPE erzet,
       ernam TYPE ernam,
       vbtyp TYPE vbtypl,
      END OF lty_data.
  DATA: lt_data TYPE TABLE OF lty_data,
     lw_data TYPE lty_data.

 TYPES: BEGIN OF lty_data1,
       vbeln TYPE vbeln_va,
       posnr TYPE posnr_va,
       matnr TYPE matnr,
      END OF lty_data1.
  DATA: lt_data1 TYPE TABLE OF lty_data1,
     lw_data1 TYPE lty_data1.
  DATA: lw_output TYPE zsaler_oreder_details.

  SELECT  vbeln erdat erzet ernam vbtyp
    FROM vbak
    INTO TABLE lt_data
    WHERE vbeln IN svbeln.

IF lt_data IS NOT INITIAL.
    SELECT vbeln posnr matnr
     FROM vbap
     INTO TABLE lt_data1
     FOR ALL ENTRIES IN lt_data
     WHERE vbeln = lt_data-vbeln.
   ENDIF.

  LOOP AT lt_data INTO lw_data.
   LOOP AT lt_data1 INTO lw_data1 WHERE vbeln = lw_data-vbeln.
     lw_output-vbeln = lw_data-vbeln.
     lw_output-erdat = lw_data-erdat.
     lw_output-erzet = lw_data-erzet.
     lw_output-ernam = lw_data-ernam.
     lw_output-vbtyp = lw_data-vbtyp.
     lw_output-posnr = lw_data1-posnr.
     lw_output-matnr = lw_data1-matnr.
     APPEND lw_output TO lt_output.
     CLEAR lw_output.
    ENDLOOP.
   ENDLOOP.

   IF sy-subrc <> 0.
    RAISE wrong_input.
   ENDIF.

 ENDMETHOD.
```
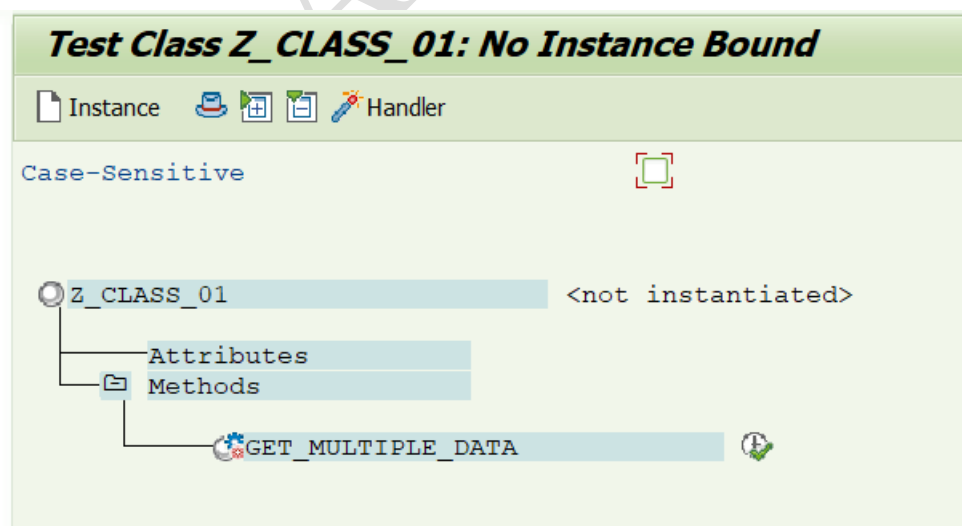
Step 12: Check if any errors and activate class.

D..	Obj. T...	Object Name		User	
	REPS	ZPRG_DEMO_INTEERNAL_TABLES		S4ABAP004	
	METH	Z_CLASS_01	GET_MULTIPLE_DATA	S4ABAP004	

Inactive Objects for S4ABAP004

Transportable Objects / Local objects

Overview

Step 13: Run/execute this method for testing.

Test Class Z_CLASS_01: No Instance Bound

Instance   Handler

Case-Sensitive

Z_CLASS_01   <not instantiated>
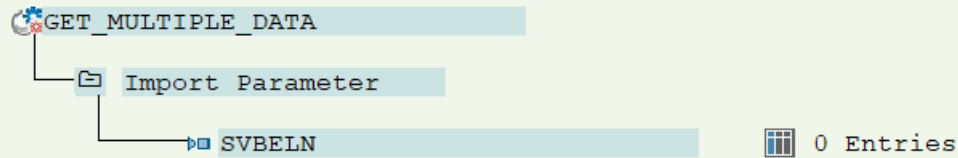
    Attributes
    Methods

        GET_MULTIPLE_DATA

Test Method GET_MULTIPLE_DATA: Maintain Input Parameters

🕐 🕐 Debugging 📲 📂

TestObject->GET_MULTIPLE_DATA()

Case-Sensitive   ⬚

⚙ GET_MULTIPLE_DATA
   └─ 📁 Import Parameter
         └─ ▶▪ SVBELN   📊 0 Entries

Structure Editor: Display GET_MULTIPLE_DATA.SVBELN from Entry   1

⛂ ⏮ ◀ ▶ ⏭ 📲 Column   📲 Entry   Metadata

1 Entry

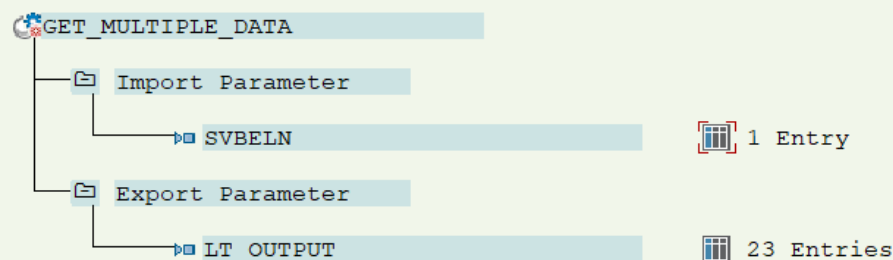| S	OP	LOW	HIGH
I	BT	1	30

Test Method GET_MULTIPLE_DATA: Display Results

📲 📂

TestObject->GET_MULTIPLE_DATA()

Case-Sensitive   ⬚

Runtime: 41.427 Microseconds

⚙ GET_MULTIPLE_DATA
   └─ 📁 Import Parameter
         └─ ▶▪ SVBELN   📊 1 Entry
   └─ 📁 Export Parameter
         └─ ▶▪ LT_OUTPUT   📊 23 Entries

Structure Editor: Display GET_MULTIPLE_DATA.LT_OUTPUT from Entry   1

🔗 I◀ ◀ ▶ ▶I 🔲 Column   🔲 Entry   Metadata

         23 Entries

VBELN	ERDAT	ERZET	ERNAM	VBTY	POSNR	MATNR
3	30.01.2025	12:40:45	S4ABAP052	C	000010	AVC_RBT_BRD_PAINT
25	23.02.2025	19:48:02	S4ABAP033	C	000010	AVC_RBT_BRD_PAINT
4	30.01.2025	13:34:18	S4ABAP052	C	000010	AVC_RBT_BRD_PAINT
8	31.01.2025	15:22:30	S4ABAP014	C	000010	AVC_RBT_BRD_PAINT
10	06.02.2025	20:11:02	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
9	06.02.2025	20:09:36	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
11	06.02.2025	20:15:14	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
17	13.02.2025	19:18:54	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
17	13.02.2025	19:18:54	S4ABAP077	C	000020	AVC_RBT_BRD_PAINT
17	13.02.2025	19:18:54	S4ABAP077	C	000030	AVC_RBT_BRD_PAINT
12	06.02.2025	21:11:43	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
13	08.02.2025	22:02:44	PVRN15	C	000010	AVC_RBT_BRD_PAINT
13	08.02.2025	22:02:44	PVRN15	C	000020	AVC_RBT_BRD_PAINT
14	08.02.2025	22:06:25	PVRN15	C	000010	AVC_RBT_BRD_PAINT
15	08.02.2025	22:07:02	PVRN15	C	000010	AVC_RBT_BRD_PAINT
16	12.02.2025	17:38:18	S4ABAP084	C	000010	SM_PROD01
18	15.02.2025	15:34:49	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
19	15.02.2025	16:05:20	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
23	16.02.2025	16:59:55	S4ABAP077	C	000010	AVC_RBT_BRD_PAINT
26	23.02.2025	19:57:46	S4ABAP033	C	000010	AVC_RBT_BRD_PAINT
27	23.02.2025	20:24:59	S4ABAP033	C	000010	AVC_RBT_BRD_PAINT
28	23.02.2025	20:25:58	S4ABAP033	C	000010	AVC_RBT_BRD_PAINT
2	24.11.2024	13:09:22	ABAP08	C	000010	SM_PROD03

Step 14: Create a Program to call this class when multiple sales document numbers are selected and show the output.

FOR INSTANCE METHOD

```
DATA: lt_final  TYPE zt_saler_oreder_details,
    lwa_final TYPE zsaler_oreder_details.
DATA: lv_vbeln TYPE vbeln_va.

SELECT-OPTIONS: svbeln FOR lv_vbeln.
*&-------------------------------------------------------------------*
*& instance method
*&-------------------------------------------------------------------*
DATA: lo_object TYPE REF TO z_class_01.
CREATE OBJECT lo_object.

CALL METHOD lo_object->get_multiple_data
 EXPORTING
  svbeln     = svbeln[]
 IMPORTING
  lt_output   = lt_final
 EXCEPTIONS
  wrong_input = 1
  OTHERS     = 2.


LOOP AT lt_final INTO lwa_final.
 WRITE: / lwa_final-vbeln,
     lwa_final-erdat,
     lwa_final-erzet,
     lwa_final-ernam,
     lwa_final-vbtyp,
     lwa_final-posnr,
     lwa_final-matnr.
ENDLOOP.

IF sy-subrc <> 0.
 MESSAGE e000(zmsg01).
ENDIF.
```

FOR STATIC METHOD

```
REPORT zprog02_class01.
DATA: lt_final  TYPE zt_saler_oreder_details,
    lwa_final TYPE zsaler_oreder_details.
DATA: lv_vbeln TYPE vbeln_va.

SELECT-OPTIONS: svbeln FOR lv_vbeln.
*&---------------------------------------------------------------------*
*& static method
*&---------------------------------------------------------------------*
CALL METHOD z_class_01=>get_multiple_data
 EXPORTING
  svbeln    = svbeln[]
 IMPORTING
  lt_output   = lt_final
 EXCEPTIONS
  wrong_input = 1
  others     = 2.

LOOP AT lt_final INTO lwa_final.
 WRITE: / lwa_final-vbeln,
      lwa_final-erdat,
      lwa_final-erzet,
      lwa_final-ernam,
      lwa_final-vbtyp,
      lwa_final-posnr,
      lwa_final-matnr.
ENDLOOP.
IF sy-subrc <> 0.
 MESSAGE e000(zmsg01).
ENDIF.
```

Step 15: Check if any error and activate the program.

Step 16: Run/Execute the program and check the output.

to display multiple sales order details

| Sales Document | | 1 | to | 30 | |

to display multiple sales order details

```
to display multiple sales order details

3           30.01.2025 12:40:45 S4ABAP052     C     000010 AVC_RBT_BRD_PAINT
25          23.02.2025 19:48:02 S4ABAP033     C     000010 AVC_RBT_BRD_PAINT
4           30.01.2025 13:34:18 S4ABAP052     C     000010 AVC_RBT_BRD_PAINT
8           31.01.2025 15:22:30 S4ABAP014     C     000010 AVC_RBT_BRD_PAINT
10          06.02.2025 20:11:02 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
9           06.02.2025 20:09:36 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
11          06.02.2025 20:15:14 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
17          13.02.2025 19:18:54 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
17          13.02.2025 19:18:54 S4ABAP077     C     000020 AVC_RBT_BRD_PAINT
17          13.02.2025 19:18:54 S4ABAP077     C     000030 AVC_RBT_BRD_PAINT
12          06.02.2025 21:11:43 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
13          08.02.2025 22:02:44 PVRN15        C     000010 AVC_RBT_BRD_PAINT
13          08.02.2025 22:02:44 PVRN15        C     000020 AVC_RBT_BRD_PAINT
14          08.02.2025 22:06:25 PVRN15        C     000010 AVC_RBT_BRD_PAINT
15          08.02.2025 22:07:02 PVRN15        C     000010 AVC_RBT_BRD_PAINT
16          12.02.2025 17:38:18 S4ABAP084     C     000010 SM_PROD01
18          15.02.2025 15:34:49 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
19          15.02.2025 16:05:20 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
23          16.02.2025 16:59:55 S4ABAP077     C     000010 AVC_RBT_BRD_PAINT
26          23.02.2025 19:57:46 S4ABAP033     C     000010 AVC_RBT_BRD_PAINT
27          23.02.2025 20:24:59 S4ABAP033     C     000010 AVC_RBT_BRD_PAINT
28          23.02.2025 20:25:58 S4ABAP033     C     000010 AVC_RBT_BRD_PAINT
2           24.11.2024 13:09:22 ABAP08        C     000010 SM_PROD03
```