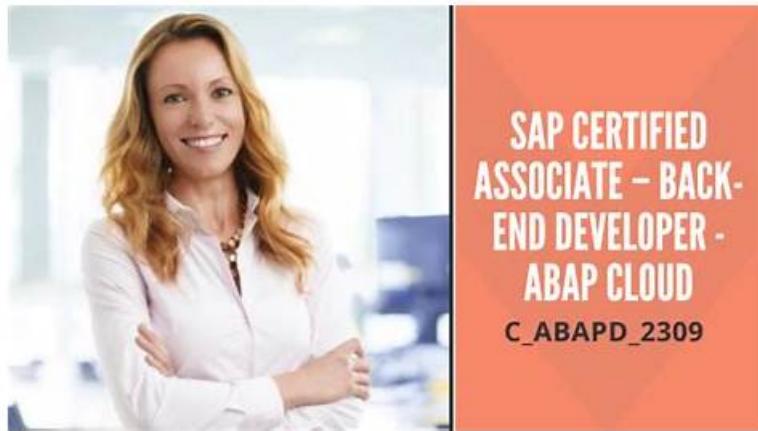


# **C\_ABAPD\_2309 - SAP Certified Associate - Back-End Developer - ABAP Cloud-High-quality New APP Simulations**



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## **SAP C\_ABAPD\_2309 Exam Syllabus Topics:**

| <b>Topic</b> | <b>Details</b>   |
|--------------|--|
| Topic 1      | <ul style="list-style-type: none"><li>Core ABAP programming: This topic covers ABAP data types, the ABAP dictionary, modularization, exceptions SAP HANA database tables, and logical expressions, operator precedence.</li></ul>  |
| Topic 2      | <ul style="list-style-type: none"><li>SAP clean core extensibility and ABAP cloud: The topic explains extension pattern, extension rules, ABAP cloud development, and ABAP cloud rules.</li></ul>  |
| Topic 3      | <ul style="list-style-type: none"><li>ABAP core data services and data modeling: It focuses on Core Data Services (CDS) views, SAP HANA database tables, foreign key relationships, and annotations.</li></ul>   |
| Topic 4      | <ul style="list-style-type: none"><li>ABAP RESTful Application Programming Model: This topic explains the ABAP Restful Application Programming model, ABAP development, and the architecture of the ABAP Restful Application Programming model.</li></ul>                                  |
| Topic 5      | <ul style="list-style-type: none"><li>Object-oriented design: It measures your knowledge about encapsulation, upcast, inheritance, polymorphism, and interfaces. Moreover, the topic evaluates your knowledge about constructor calls, Exception classes, and singleton pattern.</li></ul> |

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## SAP Certified Associate - Back-End Developer - ABAP Cloud Sample Questions (Q25-Q30):

### NEW QUESTION # 25

Which ABAP SQL clause allows the use of inline declarations?

- A. INTO
- B. FROM
- C. FIELDS
- D. INTO CORRESPONDING FIELDS OF

**Answer: A**

Explanation:

The ABAP SQL clause that allows the use of inline declarations is the INTO clause. The INTO clause is used to specify the target variable or field symbol where the result of the SQL query is stored. The INTO clause can use inline declarations to declare the target variable or field symbol at the same position where it is used, without using a separate DATA or FIELD-SYMBOLS statement. The inline declaration is performed using the DATA or @DATA operators in the declaration expression12. For example:

\* The following code snippet uses the INTO clause with an inline declaration to declare a local variable itab and store the result of the SELECT query into it:

SELECT \* FROM scarr INTO TABLE @DATA (itab).

\* The following code snippet uses the INTO clause with an inline declaration to declare a field symbol <fs> and store the result of the SELECT query into it:

SELECT SINGLE \* FROM scarr INTO @<fs>.

You cannot do any of the following:

\* FROM: The FROM clause is used to specify the data source of the SQL query, such as a table, a view, or a join expression. The FROM clause does not allow the use of inline declarations12.

\* INTO CORRESPONDING FIELDS OF: The INTO CORRESPONDING FIELDS OF clause is used to specify the target structure or table where the result of the SQL query is stored. The INTO CORRESPONDING FIELDS OF clause does not allow the use of inline declarations. The target structure or table must be declared beforehand using a DATA or FIELD-SYMBOLS statement12.

\* FIELDS: The FIELDS clause is used to specify the columns or expressions that are selected from the data source of the SQL query. The FIELDS clause does not allow the use of inline declarations. The FIELDS clause must be followed by an INTO clause that specifies the target variable or field symbol where the result is stored12.

References: 1: SELECT - ABAP Keyword Documentation - SAP Online Help 2: Inline Declarations - ABAP Keyword Documentation - SAP Online Help

### NEW QUESTION # 26

For the assignment, gv\_target = gv\_source.

which of the following data declarations will always work without truncation or rounding? Note: There are 2 correct answers to this question.

- A. DATA gv\_source TYPE p LENGTH 8 DECIMALS 3. to DATA gv\_target TYPE p LENGTH 16 DECIMALS 2.
- B. DATA gv\_source TYPE d. to DATA gv\_target TYPE string.
- C. DATA gv\_source TYPE string, to DATA gv\_target TYPE c.
- D. DATA gv\_source TYPE c. to DATA gv\_target TYPE string.

**Answer: B,D**

Explanation:

The data declarations that will always work without truncation or rounding for the assignment gv\_target = gv\_source are B and C. This is because the target data type string is a variable-length character type that can hold any character string, including those of data types c (fixed-length character) and d (date). The assignment of a character or date value to a string variable will not cause any loss of information or precision, as the string variable will adjust its length to match the source value12.

You cannot do any of the following:

\* A. DATA gv\_source TYPE string, to DATA gv\_target TYPE c.: This data declaration may cause truncation for the assignment gv\_target = gv\_source. This is because the target data type c is a fixed-length character type that has a predefined length. If the

source value of type string is longer than the target length of type c, the source value will be truncated on the right to fit the target length12.

\* D. DATA gv\_source TYPE p LENGTH 8 DECIMALS 3. to DATA gv\_target TYPE p LENGTH 16 DECIMALS 2.: This data declaration may cause rounding for the assignment gv\_target = gv\_source.

This is because the target data type p is a packed decimal type that has a predefined length and number of decimal places. If the source value of type p has more decimal places than the target type p, the source value will be rounded to the target number of decimal places12.

References: 1: ABAP Data Types - ABAP Keyword Documentation - SAP Online Help 2: ABAP Assignment Rules - ABAP Keyword Documentation - SAP Online Help

## NEW QUESTION # 27

What are advantages of using a field symbol for internal table row access? Note: There are answers to this question.

- A. The row content is copied to the field symbol instead to a work area
- B. The field symbol can be reused for other programs.
- C. A MODIFY statement to write changed contents back to the table is not required.
- D. Using a field symbol is faster than using a work area.

**Answer: C,D**

Explanation:

Explanation

A field symbol is a pointer that allows direct access to a row of an internal table without copying it to a work area. Using a field symbol for internal table row access has some advantages over using a work area, such as12:

A MODIFY statement to write changed contents back to the table is not required: This is true. When you use a work area, you have to copy the row content from the internal table to the work area, modify it, and then copy it back to the internal table using the MODIFY statement. This can be costly in terms of performance and memory consumption. When you use a field symbol, you can modify the row content directly in the internal table without any copying. Therefore, you do not need the MODIFY statement12. Using a field symbol is faster than using a work area: This is true. As explained above, using a field symbol avoids the overhead of copying data between the internal table and the work area. This can improve the performance of the loop considerably, especially for large internal tables. According to some benchmarks, using a field symbol can save 25-40% of the runtime compared to using a work area12.

You cannot do any of the following:

The field symbol can be reused for other programs: This is false. A field symbol is a local variable that is only visible within the scope of its declaration. It cannot be reused for other programs unless it is declared globally or passed as a parameter. Moreover, a field symbol must have the same type as the line type of the internal table that it accesses. Therefore, it cannot be used for any internal table with a different line type12.

The row content is copied to the field symbol instead to a work area: This is false. As explained above, using a field symbol does not copy the row content to the field symbol. Instead, the field symbol points to the memory address of the row in the internal table and allows direct access to it. Therefore, there is no copying involved when using a field symbol12.

References: 1: Using Field Symbols to Process Internal Tables - SAP Learning 2: Access to Internal Tables - ABAP Keyword Documentation - SAP Online Help

## NEW QUESTION # 28

Exhibit:

```
INTERFACE if1.  
METHODS m1.  
ENDINTERFACE.
```

```
CLASS c11 DEFINITION.  
PUBLIC SECTION.  
INTERFACES if1.  
METHODS m2.  
ENDCLASS.
```

```
...  
* in a method of another class  
DATA go_if1 TYPE REF TO if1.  
DATA go_c11 TYPE REF TO c11.  
go_c11 = NEW #( ... ).  
go_if1 = go_c11.
```



What are valid statements? Note: There are 3 correct answers to this question.

- A. Instead of go\_call = NEW #() you could use go\_if1 - NEW #(...).
- B. Instead of go call = NEW #(...) you could use go\_if1 = NEW c11(...).
- C. go\_if1 may call method m2 with go\_if1->m2(...).
- D. go\_c11 may call method m1 with go\_c11->m1().
- E. go\_if1 may call method m1 with go\_if1->m1().

**Answer: B,C,E**

Explanation:

The following are the explanations for each statement:

\* A: This statement is valid. go\_if1 may call method m1 with go\_if1->m1(). This is because go\_if1 is a data object of type REF TO if1, which is a reference to the interface if1. The interface if1 defines a method m1, which can be called using the reference variable go\_if1. The class c11 implements the interface if1, which means that it provides an implementation of the method m1. The data object go\_if1 is assigned to a new instance of the class c11 using the NEW operator and the inline declaration operator

@DATA. Therefore, when go\_if1->m1() is called, the implementation of the method m1 in the class c11 is executed123

\* B: This statement is valid. Instead of go\_c11 = NEW #(...) you could use go\_if1 = NEW c11(...). This is because go\_if1 is a data object of type REF TO if1, which is a reference to the interface if1. The class c11 implements the interface if1, which means that it is compatible with the interface if1. Therefore, go\_if1 can be assigned to a new instance of the class c11 using the NEW operator and the class name c11. The inline declaration operator @DATA is optional in this case, as go\_if1 is already declared. The parentheses after the class name c11 can be used to pass parameters to the constructor of the class c11, if any123

\* E: This statement is valid. go\_if1 may call method m2 with go\_if1->m2(...). This is because go\_if1 is a data object of type REF TO if1, which is a reference to the interface if1. The class c11 implements the interface if1, which means that it inherits all the components of the interface if1. The class c11 also defines a method m2, which is a public method of the class c11. Therefore, go\_if1 can call the method m2 using the reference variable go\_if1. The method m2 is not defined in the interface if1, but it is accessible through the interface if1, as the interface if1 is implemented by the class c11. The parentheses after the method name m2 can be used to pass parameters to the method m2, if any123 The other statements are not valid, as they have syntax errors or logical errors. These statements are:

\* C: This statement is not valid. go\_c11 may call method m1 with go\_c11->m1(). This is because go\_c11 is a data object of type REF TO c11, which is a reference to the class c11. The class c11 implements the interface if1, which means that it inherits all the components of the interface if1. The interface if1 defines a method m1, which can be called using the reference variable go\_c11. However, the syntax for calling an interface method using a class reference is go\_c11->m1(), not go\_c11->if1~m1(). The interface component selector ~ is only used when calling an interface method using an interface reference, such as go\_if1->if1~m1(). Using the interface component selector ~ with a class reference will cause a syntax error123

\* D: This statement is not valid. Instead of go\_c11 = NEW #() you could use go\_if1 = NEW #(...). This is because go\_if1 is a data object of type REF TO if1, which is a reference to the interface if1. The interface if1 cannot be instantiated, as it does not have an implementation. Therefore, go\_if1 cannot be assigned to a new instance of the interface if1 using the NEW operator and the inline declaration operator @DATA.

This will cause a syntax error or a runtime error. To instantiate an interface, you need to use a class that implements the interface,

such as the class c1123 References: INTERFACES - ABAP Keyword Documentation, CLASS - ABAP Keyword Documentation, NEW - ABAP Keyword Documentation

#### NEW QUESTION # 29



What are valid statements? Note: There are 2 correct answers to this question.

- A. The code creates an exception object and raises an exception.
- B. "param11" and "param2" are predefined names.
- C. "zcxl" is a dictionary structure, and "param1" and "param2" are this structure.
- D. "previous" expects the reference to a previous exception

**Answer: A,D**

Explanation:

The code snippet in the image is an example of using the RAISE EXCEPTION statement to raise a class-based exception and create a corresponding exception object. The code snippet also uses the EXPORTING addition to pass parameters to the instance constructor of the exception class12. Some of the valid statements about the code snippet are:

- \* The code creates an exception object and raises an exception: This is true. The RAISE EXCEPTION statement raises the exception linked to the exception class zcxl and generates a corresponding exception object. The exception object contains the information about the exception, such as the message, the source position, and the previous exception12.
- \* "previous" expects the reference to a previous exception: This is true. The previous parameter is a predefined parameter of the instance constructor of the exception class cx\_root, which is the root class of all class-based exceptions. The previous parameter expects the reference to a previous exception object that was caught during exception handling. The previous parameter can be used to chain multiple exceptions and preserve the original cause of the exception12.

You cannot do any of the following:

- \* "zcxl" is a dictionary structure, and "param1" and "param2" are this structure: This is false. zcxl is not a dictionary structure, but a user-defined exception class that inherits from the predefined exception class cx\_static\_check. param1 and param2 are not components of this structure, but input parameters of the instance constructor of the exception class zcxl. The input parameters can be used to pass additional information to the exception object, such as the values that caused the exception12.
- \* "param1" and "param2" are predefined names: This is false. param1 and param2 are not predefined names, but user-defined names that can be chosen arbitrarily. However, they must match the names of the input parameters of the instance constructor of the exception class zcxl. The names of the input parameters can be declared in the interface of the exception class using the RAISING addition12.

References: 1: RAISE EXCEPTION - ABAP Keyword Documentation - SAP Online Help 2: Class-Based Exceptions - ABAP Keyword Documentation - SAP Online Help

#### NEW QUESTION # 30

.....

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