

SAP Advanced Business Application Programming Developer (ABAPD) Practice Test (Sample)

Study Guide



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SAMPLE

Questions

- 1. Which of the following are essential rules of the SAP S/4HANA Cloud extensibility model?**
 - A. Clear separation of extensions and SAP code**
 - B. No modifications of SAP objects**
 - C. Customer upgrade projects are to be done once per year**
 - D. Standard modifications**
- 2. Which statement about valid implementations in the provided interface and class structure is incorrect?**
 - A. Class CL2 uses the interface.**
 - B. In class CL1, the interface method is named if1~m1.**
 - C. Class CL1 implements the interface.**
 - D. Class CL1 uses the interface.**
- 3. Which statements may an interface contain?**
 - A. CLASS DEFINITION**
 - B. METHODS**
 - C. TYPES**
 - D. PUBLIC SECTION**
- 4. You have a result field result with TYPE P LENGTH 3 DECIMALS 2. Which of the following statements leads to an exception?**
 - A. result = EXACT #(1 / 8).**
 - B. result = EXACT #(1 / 2).**
 - C. result = 1 / 16.**
 - D. result = 8 / 16.**
- 5. In ABAP, what is the purpose of the AUTHORITY-CHECK statement?**
 - A. To restrict the visibility of program elements.**
 - B. To verify user authorization for specific actions.**
 - C. To log user activities within the program.**
 - D. To determine the runtime efficiency of the program.**

- 6. In ABAP, what keyword is used to define a constant?**
- A. CONSTANTS**
 - B. DEFINE**
 - C. STATIC**
 - D. FINAL**
- 7. What is a key characteristic of a side-by-side extension in SAP S/4HANA?**
- A. It must always be developed by SAP**
 - B. It can integrate data from various SAP solutions**
 - C. It can only add new database tables**
 - D. It is limited to enhancing standard SAP functionality only**
- 8. Which of the following is a key technical requirement for using ABAP in SAP S/4HANA?**
- A. Using classical database queries**
 - B. Enabling database independence**
 - C. Adopting the use of procedural programming only**
 - D. Implementing complex joins always in open SQL**
- 9. After you created a database table in the RESTful Application Programming model, what do you create next?**
- A. A projection view**
 - B. A metadata extension**
 - C. A service definition**
 - D. A data model view**
- 10. Which statement is used to perform a loop over an internal table in ABAP?**
- A. LOOP...ENDLOOP**
 - B. FOR...END**
 - C. WHILE...ENDWHILE**
 - D. REPEAT...ENDREPEAT**

Answers

SAMPLE

1. A
2. D
3. B
4. A
5. B
6. A
7. B
8. B
9. D
10. A

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Explanations

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1. Which of the following are essential rules of the SAP S/4HANA Cloud extensibility model?

- A. Clear separation of extensions and SAP code**
- B. No modifications of SAP objects**
- C. Customer upgrade projects are to be done once per year**
- D. Standard modifications**

The correct choice highlights a fundamental principle of the SAP S/4HANA Cloud extensibility model, which is maintaining a clear separation between any extensions created by the customer and the standard code provided by SAP. This separation ensures that any custom logic or functionalities are independent of SAP's core systems, enabling easier upgrades and maintenance. Such an architecture minimizes the risk of unintended consequences on the standard functionality, thereby ensuring that standard updates by SAP do not affect customer-specific extensions. The adherence to this principle also facilitates a smoother collaborative relationship between SAP and customers, as customers can adapt and innovate their business processes without jeopardizing the integrity of the SAP system. Additionally, this segregation limits complications during system upgrades, as updates to the core system will not disrupt customized functionalities, leading to reduced downtime and operational impacts during upgrade cycles. In contrast, options addressing modifications of SAP objects or standard modifications do not align with the extensibility model, as they may undermine the stability and support provided by SAP to its cloud solutions. The suggestion regarding customer upgrade frequency is less relevant to the core principles of extensibility and software maintenance strategy emphasized by SAP for cloud solutions.

2. Which statement about valid implementations in the provided interface and class structure is incorrect?

- A. Class CL2 uses the interface.**
- B. In class CL1, the interface method is named if1~m1.**
- C. Class CL1 implements the interface.**
- D. Class CL1 uses the interface.**

In this scenario, the statement that Class CL1 uses the interface is regarded as incorrect. For a class to "use" an interface, it would typically need to implement the methods declared in that interface or utilize those methods in its methods. If Class CL1 merely implements the interface, this doesn't inherently mean that it is actively using the interface's methods in its own implementation. The other statements support the overall structure of how classes and interfaces interact in object-oriented programming. Class CL2 is confirmed to utilize the interface, while Class CL1 is noted to implement the interface, which suggests a relationship where CL1 is required to have the interface's methods defined (unless it is an abstract class). Additionally, the naming of the interface method as if1~m1 in class CL1 aligns with how methods in interfaces can be referenced in implementing classes. This reasoning highlights the distinct nuance in terminology between "using" and "implementing" in class-interface relationships. An implementing class must define the method signatures required by the interface, but that does not necessarily imply active usage of those methods within its own methods or functionality.

3. Which statements may an interface contain?

A. CLASS DEFINITION

B. METHODS

C. TYPES

D. PUBLIC SECTION

In the context of ABAP programming, an interface is designed to define a contract that classes can implement. Within an interface, the primary function is to declare methods that must be implemented by any class that adopts the interface. Therefore, the statement that an interface may contain methods is fundamentally correct. Interfaces primarily focus on defining behavior; they lay out a set of method signatures that implementing classes are required to provide. This allows for polymorphism, enabling different classes to implement the same methods defined in the interface in various ways, which is crucial for achieving flexible and scalable software design. While other elements such as class definitions, types, and public sections play significant roles in ABAP, they do not pertain to the structure or content of an interface specifically. Class definitions are utilized when creating a class and include encapsulated data and methods, types define data structures, and the public section pertains to visibility within ABAP objects, but none of these are part of what is contained within the interface itself. Thus, focusing on methods clarifies why it is the correct answer in the context of a statement about the contents of an interface in ABAP.

4. You have a result field result with TYPE P LENGTH 3 DECIMALS 2. Which of the following statements leads to an exception?

A. result = EXACT #(1 / 8).

B. result = EXACT #(1 / 2).

C. result = 1 / 16.

D. result = 8 / 16.

The statement leading to an exception is indeed the assignment involving the division of 1 by 8 using the EXACT syntax. The EXACT keyword is used to handle precision when floating-point arithmetic is involved, particularly when working with decimal values. In this case, 1 divided by 8 results in a floating-point number that requires more precision (0.125) than the defined length and decimal places of the result field. Since the variable result is defined with TYPE P LENGTH 3 DECIMALS 2, it can only store values up to 999.99 with a maximum of two decimal places. When 1 is divided by 8, the output (0.125) does not fit within this restriction, leading to an exception when trying to assign it to the result field. The other options represent calculations that would not cause an exception due to their results fitting within the constraints of the result field. Specifically, both 1 divided by 2 (which equals 0.5) and 8 divided by 16 (which equals 0.5) easily fit within the specified decimal constraints. The division of 1 by 16 yields 0.0625, which, though small, can also be represented within the limits of the

5. In ABAP, what is the purpose of the AUTHORITY-CHECK statement?

- A. To restrict the visibility of program elements.**
- B. To verify user authorization for specific actions.**
- C. To log user activities within the program.**
- D. To determine the runtime efficiency of the program.**

The purpose of the AUTHORITY-CHECK statement in ABAP is to verify user authorization for specific actions. This statement is essential for ensuring that users can only perform actions to which they have been granted access rights. It checks the current user's authorizations against predefined objects and fields, which helps maintain security and compliance within the application. When the AUTHORITY-CHECK statement is executed, it evaluates the user's privileges based on the authorization objects defined in the system. If the user lacks the necessary authority, the program can take appropriate actions, such as terminating the process or informing the user that they do not have permission to proceed with the requested action. This safeguards against unauthorized access and ensures that sensitive operations are protected. Given its critical role in access control, the AUTHORITY-CHECK statement is a foundational aspect of programming within SAP, allowing developers to manage security effectively. Elements such as logging user activities or assessing runtime efficiency are separate considerations and handled by other mechanisms or statements in ABAP.

6. In ABAP, what keyword is used to define a constant?

- A. CONSTANTS**
- B. DEFINE**
- C. STATIC**
- D. FINAL**

In ABAP, the keyword used to define a constant is "CONSTANTS." This keyword allows developers to declare a constant variable that holds a fixed value throughout the program's execution. Once a constant is defined, its value cannot be altered, ensuring that it maintains its integrity and reliability in the code. Constants are beneficial in programming as they enhance code readability and maintainability by providing meaningful names to fixed values, allowing programmers to avoid "magic numbers" in their code. The use of "CONSTANTS" conveys the intention that the value is intended to remain unchanged, which is important for preventing any accidental modifications that could lead to bugs or unexpected behavior in the application. The other choices represent concepts that are either unrelated or not used for defining constants in ABAP. "DEFINE" is typically associated with defining macros, "STATIC" is used for declaring statically allocated data that persists across calls, and "FINAL" is often related to ensuring that a class method cannot be overridden in subclasses. Thus, "CONSTANTS" stands out as the specific term used for defining constants in ABAP programming.

7. What is a key characteristic of a side-by-side extension in SAP S/4HANA?

- A. It must always be developed by SAP**
- B. It can integrate data from various SAP solutions**
- C. It can only add new database tables**
- D. It is limited to enhancing standard SAP functionality only**

A key characteristic of a side-by-side extension in SAP S/4HANA is that it can integrate data from various SAP solutions. This approach allows organizations to leverage existing data across multiple systems while still maintaining the core functionalities of SAP S/4HANA. By integrating data from different sources, businesses can create a more comprehensive and flexible environment that supports various applications and services. This integration capability is particularly beneficial in a landscape where organizations often utilize multiple SAP cloud applications alongside their on-premise systems, thereby promoting seamless data flows and enhanced operational efficiency. As organizations aim to extend their solutions, the side-by-side extension model facilitates the ability to incorporate data and functionality from various SAP offerings, enabling a cohesive user experience and improved business processes. The other options suggest limitations or restrictions that do not apply to this extension model. While it is important that enhancements align with standards and best practices, the integrative nature of side-by-side extensions is a defining feature, making it a versatile tool for businesses adapting to evolving needs.

8. Which of the following is a key technical requirement for using ABAP in SAP S/4HANA?

- A. Using classical database queries**
- B. Enabling database independence**
- C. Adopting the use of procedural programming only**
- D. Implementing complex joins always in open SQL**

The key technical requirement of enabling database independence in SAP S/4HANA is crucial because it reflects the architecture's design to abstract the underlying database technology. In SAP S/4HANA, the database is optimized to work with the HANA database, which provides high performance for data processing. However, allowing for database independence ensures that ABAP programs can function without being tightly coupled to any specific database system, thereby providing flexibility in deploying across various database backends. This design principle enables developers to write code that is not only efficient but also adaptable to different database technologies, which is essential for future-proofing applications as technology evolves. The other options do not fulfill a key requirement. Classical database queries may not leverage the advanced capabilities of the HANA database, which can limit performance. Relying solely on procedural programming conflicts with ABAP's flexibility, as the language supports both procedural and object-oriented programming paradigms. Additionally, implementing complex joins always in open SQL might not be necessary, as HANA provides more efficient ways to handle data retrieval through optimized SQL capabilities, reducing the need for manual joins in every situation.

9. After you created a database table in the RESTful Application Programming model, what do you create next?

- A. A projection view**
- B. A metadata extension**
- C. A service definition**
- D. A data model view**

Creating a database table in the RESTful Application Programming model is a foundational step in implementing data persistence for your application. After setting up the database table, the next logical step is to create a data model view. This view serves as an abstraction layer that allows you to define how your data is represented and accessed in the application. The data model view is essential because it shapes the structure of the data exposed through the service. It defines which entities and their attributes can be retrieved and manipulated when consumers interact with your application. This structure is critical for ensuring that the underlying data in the database table is effectively utilized and that it aligns with your business logic. Projection views, metadata extensions, and service definitions play significant roles in the development lifecycle but follow the creation of the data model view. Projection views focus on shaping the output of the data for specific use cases, metadata extensions provide additional information about the entities, and service definitions describe how clients can interact with those entities through methods and operations. Thus, the data model view is the immediate and essential next step following the creation of the database table in this development framework.

10. Which statement is used to perform a loop over an internal table in ABAP?

- A. LOOP...ENDLOOP**
- B. FOR...END**
- C. WHILE...ENDWHILE**
- D. REPEAT...ENDREPEAT**

The statement used to perform a loop over an internal table in ABAP is the LOOP...ENDLOOP construct. This is a specialized looping structure designed specifically for iterating through internal tables in ABAP. When using this construct, you can access each entry of the internal table sequentially, allowing for operations such as reading or modifying the data within the table. Inside the LOOP block, you can reference the current row being processed using the system field `SY-TABIX`, which indicates the index of the current entry. Additionally, LOOP...ENDLOOP supports a range of options, such as processing based on specified conditions or iterating over a specified range of rows, making it versatile for different looping requirements within the context of ABAP development. The other looping constructs, such as WHILE...ENDWHILE and REPEAT...ENDREPEAT, have their own unique uses for scenarios where the number of iterations is not strictly determined by an internal table. The FOR...END construct does not exist in ABAP in the context of looping over internal tables as it does in some other programming languages. Hence, utilizing LOOP...ENDLOOP is the most appropriate method for this specific task in ABAP.