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SAP C-ABAPD-2309 Exam Syllabus Topics:

Topic	Details
Topic 1	SAP clean core extensibility and ABAP cloud: The topic explains extension pattern, extension rules, ABAP cloud development, and ABAP cloud rules.
Topic 2	Core ABAP programming: This topic covers ABAP data types, the ABAP dictionary, modularization, exceptions SAP HANA database tables, and logical expressions, operator precedence.
Topic 3	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.

Topic 4	• ABAP SQL and code pushdown: It discusses ABAP SQL, arithmetic expressions, manage dates, and create joins.
Topic 5	• ABAP core data services and data modeling: It focuses on Core Data Services (CDS) views, SAP HANA database tables, foreign key relationships, and annotations.

SAP Certified Associate - Back-End Developer - ABAP Cloud Sample Questions (Q74-Q79):

NEW QUESTION # 74

Which of the following results in faster access to internal tables? Note: There are 3 correct answers to this question.

- A. In a hashed internal table, specifying the primary key completely.
- B. In a standard internal table, specifying the primary key partially from the left without gaps.
- C. In a hashed internal table, specifying the primary key partially from the left without gaps.
- D. In a sorted internal table, specifying the primary key completely.
- E. In a sorted internal table, specifying the primary key partially from the left without gaps.

Answer: A,C,D

Explanation:

The access to internal tables can be optimized by using the appropriate table type and specifying the table key.

The table key is a set of fields that uniquely identifies a row in the table and determines the sorting order of the table. The table key can be either the primary key or a secondary key. The primary key is defined by the table type and the table definition, while the secondary key is defined by the user using the KEY statement¹.

The following results in faster access to internal tables:

* B. In a sorted internal table, specifying the primary key completely. A sorted internal table is a table type that maintains a predefined sorting order, which is defined by the primary key in the table definition. The primary key can be either unique or non-unique. A sorted internal table can be accessed using the primary key or the table index. The access using the primary key is faster than the access using the table index, because the system can use a binary search algorithm to find the row. However, the primary key must be specified completely, meaning that all the fields of the primary key must be given in the correct order and without gaps².

* D. In a hashed internal table, specifying the primary key partially from the left without gaps. A hashed internal table is a table type that does not have a predefined sorting order, but uses a hash algorithm to store and access the rows. The primary key of a hashed internal table must be unique and cannot be changed. A hashed internal table can only be accessed using the primary key, not the table index. The access using the primary key is very fast, because the system can directly calculate the position of the row using the hash algorithm. The primary key can be specified partially from the left without gaps, meaning that some of the fields of the primary key can be omitted, as long as they are the rightmost fields and there are no gaps between the specified fields.

* E. In a hashed internal table, specifying the primary key completely. A hashed internal table is a table type that does not have a predefined sorting order, but uses a hash algorithm to store and access the rows. The primary key of a hashed internal table must be unique and cannot be changed. A hashed internal table can only be accessed using the primary key, not the table index. The access using the primary key is very fast, because the system can directly calculate the position of the row using the hash algorithm. The primary key can be specified completely, meaning that all the fields of the primary key must be given in the correct order.

The following do not result in faster access to internal tables, because:

* A. In a sorted internal table, specifying the primary key partially from the left without gaps. A sorted internal table is a table type that maintains a predefined sorting order, which is defined by the primary key in the table definition. The primary key can be either unique or non-unique. A sorted internal table can be accessed using the primary key or the table index. The access using the primary key is faster than the access using the table index, because the system can use a binary search algorithm to find the row.

However, the primary key must be specified completely, meaning that all the fields of the primary key must be given in the correct order and without gaps. If the primary key is specified partially from the left without gaps, the system cannot use the binary search algorithm and has to perform a linear search, which is slower².

* C. In a standard internal table, specifying the primary key partially from the left without gaps. A standard internal table is a table type that does not have a predefined sorting order, but uses a sequential storage and access of the rows. The primary key of a standard internal table is the standard key, which consists of all the fields of the table row in the order in which they are defined. A standard internal table can be accessed using the primary key or the table index. The access using the primary key is slower than the access using the table index, because the system has to perform a linear search to find the row.

The primary key can be specified partially from the left without gaps, but this does not improve the access speed, because the system still has to perform a linear search.

References: 1: Internal Tables - Overview - ABAP Keyword Documentation 2: Sorted Tables - ABAP Keyword Documentation : Hashed Tables - ABAP Keyword Documentation : Standard Tables - ABAP Keyword Documentation

NEW QUESTION # 75

What RESTful Application Programming feature is used to ensure the uniqueness of a semantic key?

- A. Determination
- B. Action
- C. Validation

Answer: A

Explanation:

Explanation

The RESTful Application Programming feature that is used to ensure the uniqueness of a semantic key is determination. A determination is a type of behavior implementation that defines a logic that is executed automatically when certain events occur, such as create, update, delete, or activate. A determination can be used to calculate or derive values for certain fields, such as semantic keys, based on other fields or external sources. A determination can also be used to check the uniqueness of a semantic key by comparing it with the existing values in the database or the transaction buffer. A determination can use the ABAP SQL or the EML syntax to access and manipulate data. A determination can be defined using the DETERMINE action clause in the behavior definition of a CDS view entity or a projection view. A determination can also be annotated with the `@ObjectModel.determination` annotation to specify the event, the timing, and the scope of the determination¹² The other RESTful Application Programming features are not used to ensure the uniqueness of a semantic key, but have different purposes and effects. These features are:

Validation: A validation is a type of behavior implementation that defines a logic that is executed automatically when certain events occur, such as create, update, delete, or activate. A validation can be used to check the consistency and correctness of the data, such as mandatory fields, data types, value ranges, or business rules. A validation can use the ABAP SQL or the EML syntax to access and manipulate data. A validation can be defined using the VALIDATE action clause in the behavior definition of a CDS view entity or a projection view. A validation can also be annotated with the

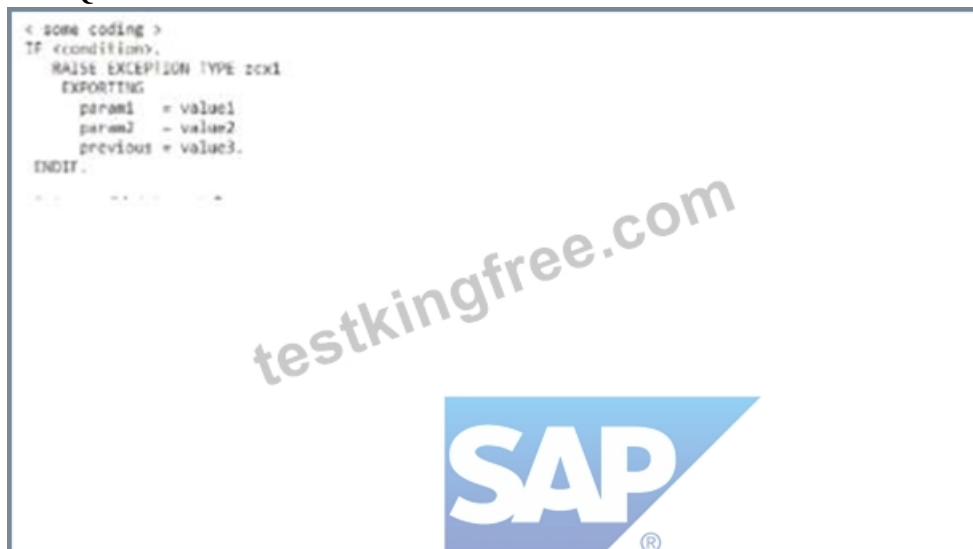
`@ObjectModel.validation` annotation to specify the event, the timing, and the scope of the validation¹² **Action:** An action is a type of behavior implementation that defines a logic that is executed explicitly by the user or the application. An action can be used to perform a specific business operation, such as creating, updating, deleting, or activating an entity instance, or triggering a workflow or a notification.

An action can use the ABAP SQL or the EML syntax to access and manipulate data. An action can be defined using the ACTION clause in the behavior definition of a CDS view entity or a projection view. An action can also be annotated with the

`@ObjectModel.action` annotation to specify the name, the description, the parameters, and the visibility of the action¹² References:

Behavior Implementation - ABAP Keyword Documentation, Behavior Definition - ABAP Keyword Documentation

NEW QUESTION # 76



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

- A. "zcx1" is a dictionary structure, and "param1" and "param2" are this structure.
- B. "previous" expects the reference to a previous exception
- C. The code creates an exception object and raises an exception.
- D. "param1" and "param2" are predefined names.

Answer: B,C

Explanation:

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 zcx1 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:

"zcx1" is a dictionary structure, and "param1" and "param2" are this structure: This is false. zcx1 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 zcx1. 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 zcx1. 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 # 77

For what kind of applications would you consider using on-stack developer extensions? Note: There are 2 correct answers to this question.

- A. Applications that integrate data from several different systems
- **B. Applications that provide APIs for side by side SAP BTP apps**
- C. Applications that run separate from SAP S/4HANA
- **D. Applications that access SAP S/4HANA data using complex SQL**

Answer: B,D

Explanation:

On-stack developer extensibility is a type of extensibility that allows you to create development projects directly on the SAP S/4HANA Cloud technology stack. It gives you the opportunity to develop cloud-ready and upgrade-stable custom ABAP applications and services inside the SAP S/4HANA Cloud, public edition system. You can use the ABAP Development Tools in Eclipse to create and deploy your on-stack extensions.

On-stack developer extensibility is suitable for the following kinds of applications:

* Applications that provide APIs for side by side SAP BTP apps. On-stack developer extensibility allows you to create OData services or RESTful APIs based on CDS view entities or projection views. These services or APIs can expose SAP S/4HANA data and logic to other applications that run on the SAP Business Technology Platform (SAP BTP) or other platforms. This way, you can create a loosely coupled integration between your SAP S/4HANA system and your side by side SAP BTP apps.

* Applications that access SAP S/4HANA data using complex SQL. On-stack developer extensibility allows you to use ABAP SQL to access SAP S/4HANA data using complex queries, such as joins, aggregations, filters, parameters, and code pushdown techniques. You can also use ABAP SQL to perform data manipulation operations, such as insert, update, delete, and upsert. This way, you can create applications that require advanced data processing and analysis on SAP S/4HANA data.

The other kinds of applications are not suitable for on-stack developer extensibility, as they have different requirements and challenges. These kinds of applications are:

* Applications that integrate data from several different systems. On-stack developer extensibility is not meant for creating applications that integrate data from multiple sources, such as other SAP systems, third-party systems, or cloud services. This is because on-stack developer extensibility does not support remote access or data replication, and it may cause performance or security issues. For this kind of applications, you should use side by side extensibility, which allows you to create applications that run on the SAP BTP and communicate with the SAP S/4HANA system via public APIs or events.

* Applications that run separate from SAP S/4HANA. On-stack developer extensibility is not meant for creating applications that run independently from the SAP S/4HANA system, such as standalone apps, microservices, or web apps. This is because on-stack

developer extensibility requires a tight coupling with the SAP S/4HANA system, and it may limit the scalability, flexibility, and portability of the applications. For this kind of applications, you should use side by side extensibility, which allows you to create applications that run on the SAP BTP and leverage the cloud-native features and services of the platform.

References: Developer Extensibility in SAP S/4HANA Cloud ABAP Environment, SAP S/4HANA Extensibility - Simplified Guide for Beginners

NEW QUESTION # 78



To adhere to the most recent ABAP SQL syntax conventions from SAP, on which line must you insert the "INTO TABLE @gt_flights" clause to complete the SQL statement?

- A. #8
- B. #15
- **C. #4**
- D. #6

Answer: C

Explanation:

Explanation

To adhere to the most recent ABAP SQL syntax conventions from SAP, you must insert the "INTO TABLE

@gt_flights" clause on line #4 to complete the SQL statement. This is because the INTO or APPENDING clause should be specified immediately after the SELECT clause, according to the ABAP SQL syntax conventions¹. The INTO or APPENDING clause defines the data object to which the results set of the SELECT statement is assigned. The data object can be an internal table, a work area, or an inline declaration.

In this case, the data object is an internal table named gt_flights, which is created using the inline declaration operator @DATA. The inline declaration operator allows you to declare and create a data object in the same statement where it is used, without the need for a separate DATA statement².

The other lines are not suitable for inserting the "INTO TABLE @gt_flights" clause, as they would violate the ABAP SQL syntax conventions or cause syntax errors. These lines are:

#6: This line is not suitable for inserting the "INTO TABLE @gt_flights" clause, as it would cause a syntax error. This is because the FROM clause must be specified before the INTO or APPENDING clause, according to the ABAP SQL syntax conventions¹. The FROM clause defines the data sources from which the data is read, such as database tables, CDS view entities, or CDS DDIC-based views. In this case, the data source is the database table flights.

#8: This line is not suitable for inserting the "INTO TABLE @gt_flights" clause, as it would cause a syntax error. This is because the ORDER BY clause must be specified after the INTO or APPENDING clause, according to the ABAP SQL syntax conventions¹. The ORDER BY clause defines the sort order of the results set of the SELECT statement. In this case, the results set is sorted by the fields carrid, connid, and ftime.

#15: This line is not suitable for inserting the "INTO TABLE @gt_flights" clause, as it would violate the ABAP SQL syntax conventions. This is because the INTO or APPENDING clause should be specified as close as possible to the SELECT clause, according to the ABAP SQL syntax conventions¹. The INTO or APPENDING clause should not be separated from the SELECT clause by other clauses, such as the WHERE clause, the GROUP BY clause, the HAVING clause, the UNION clause, or the ORDER BY clause. This is to improve the readability and maintainability of the ABAP SQL statement.

References: SELECT - ABAP Keyword Documentation, Inline Declarations - ABAP Keyword Documentation

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