

Quiz 2026 Accurate C_BW4H_2505: SAP Certified Associate - Data Engineer - SAP BW/4HANA Materials



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SAP Certified Associate - Data Engineer - SAP BW/4HANA Sample Questions (Q15-Q20):

NEW QUESTION # 15

You need to derive an architecture overview model from a key figure matrix. Which is the first step you need to take?

- A. Identify transformations.

- B. Analyze storage requirements.
- **C. Identify sources.**
- D. Define data marts.

Answer: C

Explanation:

Deriving an architecture overview model from a key figure matrix is a critical step in designing an SAP BW/4HANA solution. The first step in this process is to identify the sources of the data that will populate the key figures. Understanding the data sources ensures that the architecture is built on a solid foundation and can meet the reporting and analytical requirements.

* Identify sources (Option B): Before designing the architecture, it is essential to determine where the data for the key figures originates. This includes identifying:

* Source systems: ERP systems, external databases, flat files, etc.

* Data types: Transactional data, master data, metadata, etc.

* Data quality: Ensuring the sources provide accurate and consistent data.

* Identifying sources helps define the data extraction, transformation, and loading (ETL) processes required to populate the key figures in the architecture.

* Identify transformations (Option A): Transformations are applied to the data after it has been extracted from the sources. While transformations are an important part of the architecture, they cannot be defined until the sources are identified.

* Analyze storage requirements (Option C): Storage requirements depend on the volume and type of data being processed. However, these requirements can only be determined after the sources and data flows are understood.

* Define data marts (Option D): Data marts are designed to serve specific reporting or analytical purposes.

Defining data marts is a later step in the architecture design process and requires a clear understanding of the sources and transformations.

* Identify sources: Determine the origin of the data.

* Map data flows: Define how data moves from the sources to the target system.

* Apply transformations: Specify the logic for cleansing, enriching, and aggregating the data.

* Design storage layers: Decide how the data will be stored (e.g., ADSOs, InfoCubes).

* Define data marts: Create specialized structures for reporting and analytics.

* Source Identification: Identifying sources is the foundation of any data architecture. Without knowing where the data comes from, it is impossible to design an effective ETL process or storage model.

* Key Figure Matrix: A key figure matrix provides a high-level view of the metrics and dimensions required for reporting. It serves as a starting point for designing the architecture.

* SAP BW/4HANA Modeling Guide: This guide explains the steps involved in designing an architecture, including source identification and data flow mapping.

* Link: SAP BW/4HANA Documentation

* SAP Note 2700980 - Best Practices for Architecture Design in SAP BW/4HANA: This note provides recommendations for designing scalable and efficient architectures in SAP BW/4HANA.

Why Other Options Are Incorrect: Steps to Derive an Architecture Overview Model: Key Points About Architecture

Design: References to SAP Data Engineer - Data Fabric: By starting with source identification, you ensure that the architecture overview model is grounded in the actual data landscape, enabling a robust and effective solution design.

NEW QUESTION # 16

In a BW query with cells you need to overwrite the initial definition of a cell. Which cell types can you use?

Note: There are 2 correct answers to this question.

- A. Help cell
- B. Reference cell
- **C. Selection cell**
- **D. Formula cell**

Answer: C,D

Explanation:

In SAP BW (Business Warehouse), when working with queries that include cells, you can define and manipulate these cells to meet specific reporting requirements. Cells in a BW query are used to display data based on certain conditions or calculations. If you need to overwrite the initial definition of a cell, you have specific options available.

* Formula Cell: A formula cell allows you to perform calculations using other cells or key figures within the query. You can define complex formulas to derive new values. When you need to overwrite the initial definition of a cell, you can use a formula cell to redefine how the value is calculated. This flexibility makes it possible to change the behavior of the cell dynamically based on your

requirements.

* **Selection Cell:** A selection cell enables you to apply specific filters or selections to the data displayed in the cell. By defining a selection cell, you can control which data is included or excluded from the cell's output. Overwriting the initial definition of a cell can involve changing the selection criteria applied to the cell, thus altering the subset of data it represents.

* **Reference Cell:** A reference cell simply points to another cell and displays its value. It does not allow for any overwriting or modification of the initial definition because it merely references an existing cell without introducing new logic or conditions.

* **Help Cell:** Help cells are used to provide additional information or context within a query but do not participate in calculations or selections. They cannot be used to overwrite the initial definition of a cell since their purpose is purely informational.

* **Formula Cells:** These are ideal for recalculating or redefining the value of a cell based on custom logic or mathematical operations. For example, if you initially defined a cell to show revenue, you could overwrite this definition by creating a formula cell that calculates profit instead.

* **Selection Cells:** These are perfect for applying different filters or conditions to alter the dataset represented by the cell. For instance, if a cell initially shows sales data for all regions, you can overwrite this by specifying a selection cell that only includes data from a particular region.

Cell Types Overview: Why Formula and Selection Cells? SAP Data Engineer - Data Fabric Context: In the broader context of SAP Data Engineer - Data Fabric, understanding how to manipulate and redefine cells within BW queries is crucial for building flexible and dynamic reports. The Data Fabric concept emphasizes seamless integration and transformation of data across various sources, and mastering query design- including cell manipulation- is essential for effective data modeling and reporting.

For more detailed information, you can refer to official SAP documentation on BW Query Design and Cell Definitions, as well as training materials provided in SAP Learning Hub related to SAP BW and Data Fabric implementations.

By selecting Formula cell and Selection cell, you ensure that you have the necessary tools to effectively overwrite and redefine cell behaviors within your BW queries.

* SAP Learning Hub - BW Query with Cells

NEW QUESTION # 17

What are valid options when using the Data Flow feature of SAP Datasphere? Note: There are 3 correct answers to this question.

- A. Python language can be used for complex transformation.
- B. Data can be combined using Union or Join operators.
- C. Target mode can be Append Truncate or Delete.
- D. NumPy Pas are automatically converted to SQL script.
- E. Remote tables can be used as target objects.

Answer: A,B,C

Explanation:

The Data Flow feature in SAP Datasphere (formerly known as SAP Data Warehouse Cloud) is a powerful tool for designing and executing ETL (Extract, Transform, Load) processes. It allows users to create data pipelines that integrate, transform, and load data into target objects. Below is an explanation of the valid options:

* **Explanation:** This statement is incorrect. While SAP Datasphere supports advanced transformations using Python, it does not automatically convert libraries like NumPy into SQL scripts. Instead, Python scripts are executed as part of the transformation logic, and SQL is used for database operations.

* SAP Datasphere documentation highlights that Python is supported for custom transformations, but there is no mention of automatic conversion of Python libraries like NumPy into SQL.

2. **Python language can be used for complex transformation** Explanation: This statement is correct. SAP Datasphere allows users to write custom transformation logic using Python. This is particularly useful for implementing complex business rules or calculations that cannot be achieved using standard SQL or graphical operators.

Reference: The Data Flow feature includes a Python operator, which enables users to embed Python code for advanced transformations. This capability is documented in SAP Datasphere's transformation guides.

3. **Data can be combined using Union or Join operators** Explanation: This statement is correct. SAP Datasphere provides Union and Join operators as part of its graphical data flow design. These operators allow users to combine data from multiple sources based on specific conditions or by appending rows.

Reference: The Union operator merges datasets vertically (row-wise), while the Join operator combines datasets horizontally (column-wise). Both are essential features of the Data Flow functionality, as described in SAP Datasphere's user guides.

4. **Remote tables can be used as target objects** Explanation: This statement is incorrect. In SAP Datasphere, remote tables can only be used as source objects in a data flow. They cannot serve as target objects because the data must be loaded into a local table within the SAP Datasphere environment.

Reference: SAP Datasphere's architecture separates remote tables (external systems) from local tables (internal storage). Only local tables can act as targets in a data flow.

5. **Target mode can be Append, Truncate, or Delete** Explanation: This statement is correct. When loading data into a target table in

SAP Datasphere, users can specify the load mode:

Append: Adds new records to the existing data.

Truncate: Deletes all existing data before loading new records.

Delete: Removes specific records based on conditions before loading new data.

Reference: The ability to configure these load modes is a standard feature of SAP Datasphere's Data Flow functionality, as outlined in its data loading documentation.

Conclusion The valid options for the Data Flow feature in SAP Datasphere are:

Using Python for complex transformations.

Combining data using Union or Join operators.

Configuring target modes such as Append, Truncate, or Delete.

These capabilities make SAP Datasphere a versatile tool for integrating and transforming data from diverse sources.

NEW QUESTION # 18

How does integrating SAP Databricks within SAP Business Data Cloud reduce IT overhead for customers?

- A. By eliminating the need for rebuilding data structures and business logic externally
- B. By providing pre-built connectors to various data sources
- C. By streamlining data governance processes and minimizing the need for complex data security configurations
- D. By automating data ingestion pipelines

Answer: A,D

NEW QUESTION # 19

In which ODP context is the operational delta queue (ODQ) managed by the target system?

- A. ODP_SAP
- B. ODP_CDS
- C. ODP_HANA
- D. ODP_BW

Answer: D

Explanation:

In the context of Operational Data Provisioning (ODP), the operational delta queue (ODQ) is a critical component that manages delta records for incremental data extraction. The management of the ODQ depends on the specific ODP context, particularly whether the target system or source system is responsible for maintaining the delta queue.

* ODP_BW (Option A):

* In the ODP_BW context, the operational delta queue (ODQ) is managed by the target system (SAP BW/4HANA).

* This means that SAP BW/4HANA takes responsibility for tracking and managing delta records, ensuring that only new or changed data is extracted during subsequent loads.

* This approach is commonly used when the source system does not natively support delta management or when the target system needs more control over the delta handling process.

* ODP_SAP (Option B): In the ODP_SAP context, the source system (e.g., SAP ERP) manages the operational delta queue. This is the default behavior for SAP source systems, where the source system maintains the delta queue and provides delta records to the target system upon request.

* ODP_CDS (Option C): The ODP_CDS context is used for extracting data from Core Data Services (CDS) views in SAP HANA or SAP S/4HANA. In this context, delta handling is typically managed by the source system (SAP HANA or S/4HANA) and not the target system.

* ODP_HANA (Option D): The ODP_HANA context is used for extracting data from SAP HANA-based sources. Similar to ODP_CDS, delta handling in this context is managed by the source system (SAP HANA) rather than the target system.

* ODP_BW:

* Delta queue is managed by the target system (SAP BW/4HANA).

* Suitable for scenarios where the source system does not support delta management or when the target system requires more control.

* ODP_SAP:

* Delta queue is managed by the source system (e.g., SAP ERP).

* Default context for SAP source systems.

* ODP_CDS and ODP_HANA:

* Delta handling is managed by the source system (SAP HANA or S/4HANA).

* SAP Note 2358900 - Operational Data Provisioning (ODP) in SAP BW/4HANA: This note provides an overview of ODP contexts and their respective delta handling mechanisms.

* SAP BW/4HANA Data Modeling Guide: This guide explains the differences between ODP contexts and how they impact delta management in SAP BW/4HANA.

* Link: SAP BW/4HANA Documentation

Why Other Options Are Incorrect: Key Points About ODP Contexts: References to SAP Data Engineer - Data Fabric: By understanding the ODP context, you can determine how delta records are managed and ensure that your data extraction processes are optimized for performance and accuracy.

NEW QUESTION # 20

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