

Implementing Analytics Solutions Using Microsoft Fabric exam pdf guide & DP-600 prep sure exam



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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Prepare data: This section of the exam measures the skills of engineers and covers essential data preparation tasks. It includes establishing data connections and discovering sources through tools like the OneLake data hub and the real-time hub. Candidates must demonstrate knowledge of selecting the appropriate storage type—lakehouse, warehouse, or eventhouse—depending on the use case. It also includes implementing OneLake integrations with Eventhouse and semantic models. The transformation part involves creating views, stored procedures, and functions, as well as enriching, merging, denormalizing, and aggregating data. Engineers are also expected to handle data quality issues like duplicates, missing values, and nulls, along with converting data types and filtering. Furthermore, querying and analyzing data using tools like SQL, KQL, and the Visual Query Editor is tested in this domain.

Topic 2	<ul style="list-style-type: none"> • Implement and manage semantic models: This section of the exam measures the skills of architects and focuses on designing and optimizing semantic models to support enterprise-scale analytics. It evaluates understanding of storage modes and implementing star schemas and complex relationships, such as bridge tables and many-to-many joins. Architects must write DAX-based calculations using variables, iterators, and filtering techniques. The use of calculation groups, dynamic format strings, and field parameters is included. The section also includes configuring large semantic models and designing composite models. For optimization, candidates are expected to improve report visual and DAX performance, configure Direct Lake behaviors, and implement incremental refresh strategies effectively.
Topic 3	<ul style="list-style-type: none"> • Maintain a data analytics solution: This section of the exam measures the skills of administrators and covers tasks related to enforcing security and managing the Power BI environment. It involves setting up access controls at both workspace and item levels, ensuring appropriate permissions for users and groups. Row-level, column-level, object-level, and file-level access controls are also included, alongside the application of sensitivity labels to classify data securely. This section also tests the ability to endorse Power BI items for organizational use and oversee the complete development lifecycle of analytics assets by configuring version control, managing Power BI Desktop projects, setting up deployment pipelines, assessing downstream impacts from various data assets, and handling semantic model deployments using XMLA endpoint. Reusable asset management is also a part of this domain.

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q24-Q29):

NEW QUESTION # 24

You have a Fabric tenant that contains a workspace named Workspace1. Workspace1 contains a lakehouse named L.H1 and a warehouse named DW1. L.H1 contains a table named signindata that is in the dho schema.

You need to create a stored procedure in DW1 that deduplicates the data in the signindata table.

How should you complete the T-SQL statement? To answer, select the appropriate options in the answer area.

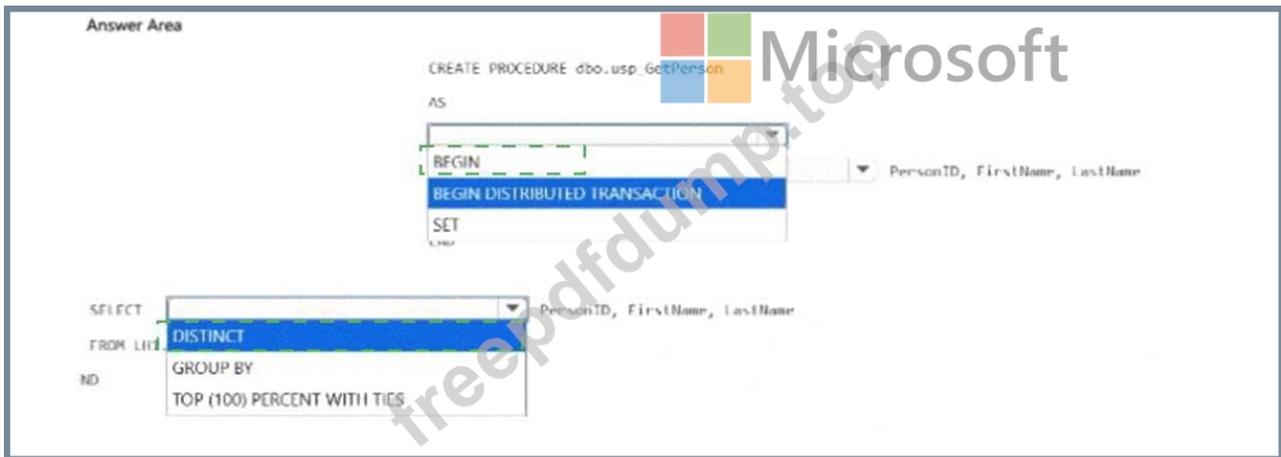
NOTE: Each correct selection is worth one point.

Answer Area

The screenshot shows a Microsoft SQL Server query editor with a T-SQL statement. The statement is: `CREATE PROCEDURE dbo.usp_GetPerson AS BEGIN BEGIN DISTRIBUTED TRANSACTION SET Language SET Language SET Language SELECT DISTINCT FROM L.H1 GROUP BY TOP (100) PERCENT WITH TIES PersonID, FirstName, LastName`. The dropdown menus are open, showing options: `BEGIN DISTRIBUTED TRANSACTION`, `SET`, and `DISTINCT`.

Answer:

Explanation:



Explanation:



Scenario Recap

Fabric tenant # Workspace1

Contains:

Lakehouse LHI (with table signindata in schema dho)

Warehouse DW1

Task: Create a stored procedure in DW1 that deduplicates rows in signindata.

Step 1: Stored procedure structure

In T-SQL, stored procedures begin with:

AS

BEGIN

-- logic

END

So the correct option for the first blank is BEGIN.

BEGIN DISTRIBUTED TRANSACTION is not needed because we are not spanning multiple servers or needing distributed transactions.

SET is not the right way to start the logic block.

Step 2: Deduplication logic

To remove duplicates from signindata, the query should return unique rows.

The simplest way is:

SELECT DISTINCT PersonID, FirstName, LastName

FROM dho.signindata;

Thus the correct choice for the second blank is DISTINCT.

GROUP BY could also deduplicate but is less efficient here since no aggregation is requested.

TOP 100 PERCENT WITH TIES is irrelevant.

Step 3: Final T-SQL stored procedure

CREATE PROCEDURE dbo.usp_GetPerson

AS

BEGIN

SELECT DISTINCT PersonID, FirstName, LastName

FROM dho.signindata;

END;

Why this is correct

BEGIN # correct stored procedure structure.

DISTINCT # ensures deduplication of rows from signindata.

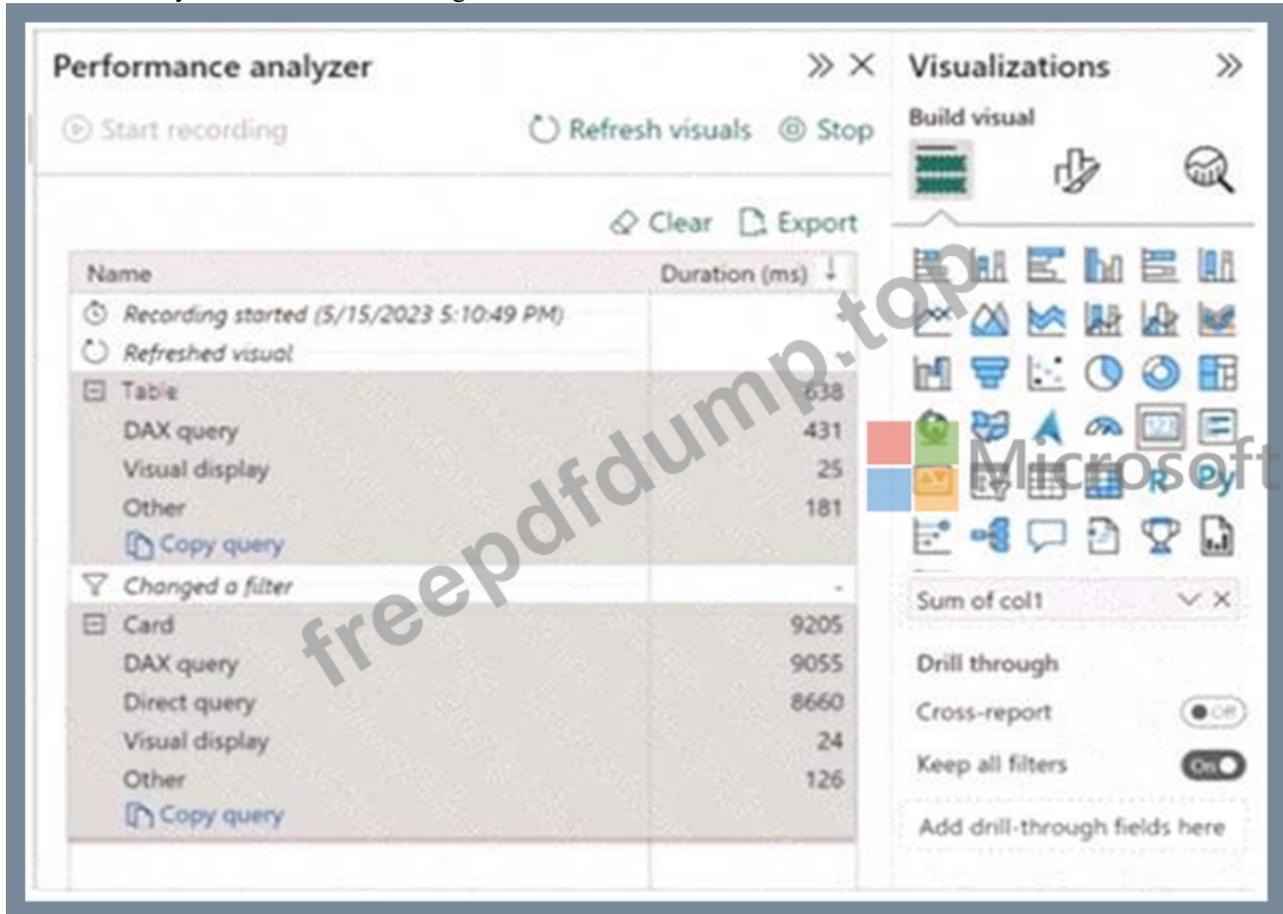
References

CREATE PROCEDURE (Transact-SQL)

DISTINCT (Transact-SQL)

NEW QUESTION # 25

You have a Microsoft Power BI report and a semantic model that uses Direct Lake mode. From Power BI Desktop, you open Performance analyzer as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Answer Area

The Direct Lake fallback behavior is set to [answer choice].

The query for the table visual is executed by using [answer choice].

Answer:

Explanation:
Answer Area

The Direct Lake fallback behavior is set to [answer choice].

The query for the table visual is executed by using [answer choice].

Explanation:

- * The Direct Lake fallback behavior is set to: DirectQueryOnly
- * The query for the table visual is executed by using: DirectQuery

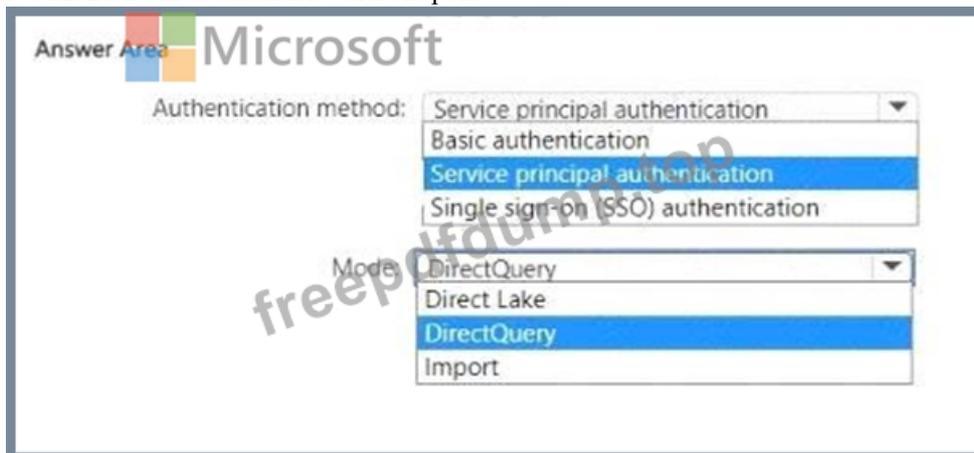
In the context of Microsoft Power BI, when using DirectQuery in Direct Lake mode, there is no caching of data and all queries are sent directly to the underlying data source. The Performance Analyzer tool shows the time taken for different operations, and from the options provided, it indicates that DirectQuery mode is being used for the visuals, which is consistent with the Direct Lake setting. DirectQueryOnly as the fallback behavior ensures that only DirectQuery will be used without reverting to import mode.

NEW QUESTION # 26

You need to design a semantic model for the customer satisfaction report.

Which data source authentication method and mode should you use? To answer, select the appropriate options in the answer area.

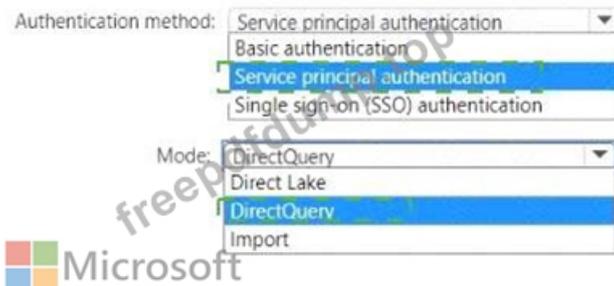
NOTE: Each correct selection is worth one point.



Answer:

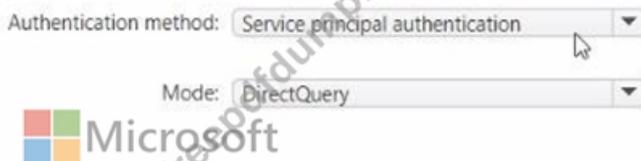
Explanation:

Answer Area



Explanation:

Answer Area



For the semantic model design required for the customer satisfaction report, the choices for data source authentication method and mode should be made based on security and performance considerations as per the case study provided.

Authentication method: The data should be accessed securely, and given that row-level security (RLS) is required for users executing T-SQL queries, you should use an authentication method that supports RLS.

Service principal authentication is suitable for automated and secure access to the data, especially when the access needs to be controlled programmatically and is not tied to a specific user's credentials.

Mode: The report needs to show data as soon as it is updated in the data store, and it should only contain data from the current and previous year. DirectQuery mode allows for real-time reporting without importing data into the model, thus meeting the need for up-to-date data. It also allows for RLS to be implemented and enforced at the data source level, providing the necessary security measures.

Based on these considerations, the selections should be:

- * Authentication method: Service principal authentication

* Mode: DirectQuery

NEW QUESTION # 27

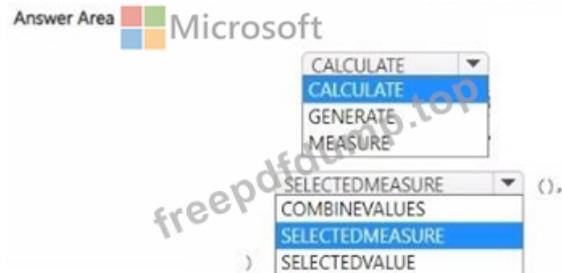
You have a Microsoft Power BI semantic model.

You plan to implement calculation groups.

You need to create a calculation item that will change the context from the selected date to month-to-date (MTD).

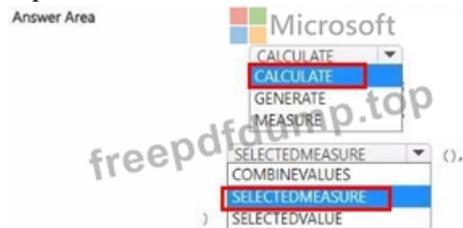
How should you complete the DAX expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:



NEW QUESTION # 28

You are implementing two dimension tables named Customers and Products in a Fabric warehouse.

You need to use slowly changing dimension (SCD) to manage the versioning of data. The solution must meet the requirements shown in the following table.

Table	Change action
Customers	Create a new version of the row.
Products	Overwrite the existing value in the latest row.

Which type of SCD should you use for each table? To answer, drag the appropriate SCD types to the correct tables. Each SCD type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

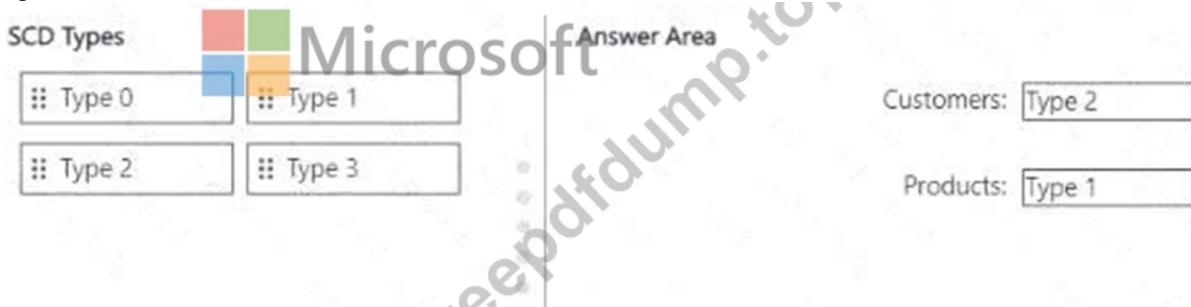


Answer:

Explanation:



Explanation:



For the Customers table, where the requirement is to create a new version of the row, you would use:

Type 2 SCD: This type allows for the creation of a new record each time a change occurs, preserving the history of changes over time.

For the Products table, where the requirement is to overwrite the existing value in the latest row, you would use:

Type 1 SCD: This type updates the record directly, without preserving historical data.

NEW QUESTION # 29

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