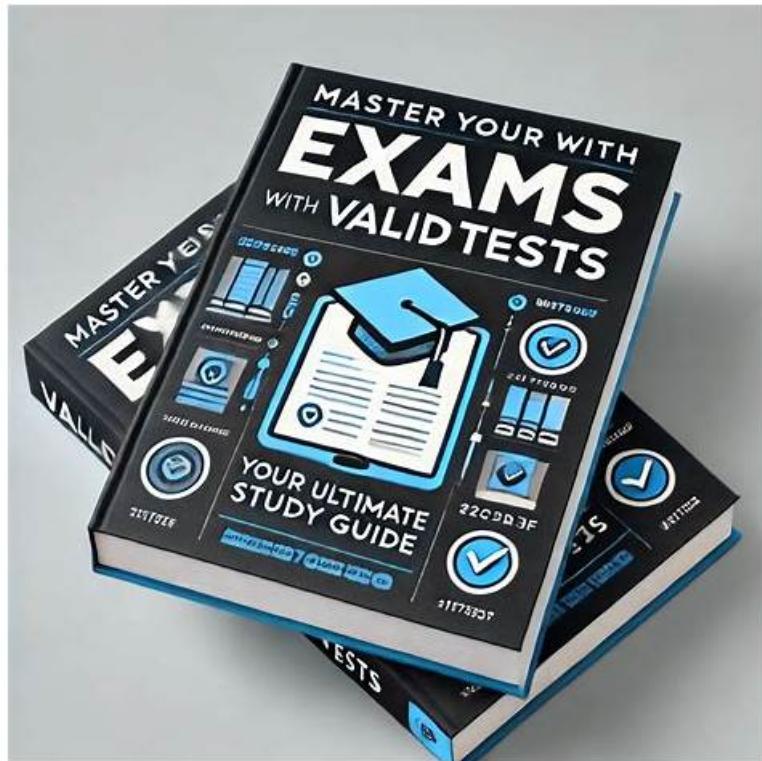


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Microsoft DP-600 Exam Syllabus Topics:

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 (Q142-Q147):

NEW QUESTION # 142

You have a Fabric tenant that contains a workspace named Workspace1. Workspace1 contains a lakehouse named Lakehouse1 and a warehouse named Warehouse1.

You need to create a new table in Warehouse1 named POSCustomers by querying the customer table in Lakehouse1.

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:

Explanation:

Explanation:

NEW QUESTION # 143

You have a Fabric tenant that contains a semantic model named model1. The two largest columns in model1 are shown in the following table.

You need to optimize model 1. The solution must meet the following requirements:

* Reduce the model size.

* Increase refresh performance when using Import mode.

* Ensure that the datetime value for each sales transaction is available in the model.

What should you do on each column? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

We are optimizing model1 in Fabric with two very large columns:

TransactionKey

Cardinality: 2.5 billion

Size: 160 GB

Description: surrogate key for SalesTransaction fact table.

SaleDateTime

Cardinality: 6.8 million

Size: 120 GB

Description: datetime (to the second) of when a sale occurred.

Goal:

Reduce model size.

Improve refresh performance (Import mode).

Ensure datetime values remain available.

Analysis per column

1. TransactionKey (very high cardinality)

Surrogate keys with extremely high cardinality do not add analytical value in a semantic model because they are not used in measures or grouping.

They take a lot of memory and reduce refresh performance.

Best practice: remove the column from the model.

2. SaleDateTime

Needed to analyze transactions by date and time.

However, storing the full datetime at second-level cardinality causes huge memory usage.

To optimize: split the column into Date and Time columns.

Reduces cardinality significantly.

Preserves full datetime information (can recombine if needed).

Improves compression and refresh speed.

Final Answer:

TransactionKey: Remove the column.

SaleDateTime: Split the column.

References:

Microsoft Fabric optimization guidance - reduce cardinality

Best practices for datetime optimization in semantic models

Answer Selection:

TransactionKey # Remove the column

SaleDateTime # Split the column

NEW QUESTION # 144

You have a Fabric tenant that contains a Microsoft Power BI report named Report 1.

Report1 is slow to render. You suspect that an inefficient DAX query is being executed.

You need to identify the slowest DAX query, and then review how long the query spends in the formula engine as compared to the storage engine.

Which five actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Answer:

Explanation:

Explanation:

To identify the slowest DAX query and analyze the time it spends in the formula engine compared to the storage engine, you should perform the following actions in sequence:

* From Performance analyzer, capture a recording.

* View the Server Timings tab.

* Enable Query Timings and Server Timings. Run the query.

* View the Query Timings tab.

* Sort the Duration (ms) column in descending order by DAX query time.

NEW QUESTION # 145

You need to resolve the issue with the pricing group classification.

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:

Explanation:

□ Explanation:

* You should use CREATE VIEW to make the pricing group logic available for T-SQL queries.

* The CASE statement should be used to determine the pricing group based on the list price.

The T-SQL statement should create a view that classifies products into pricing groups based on the list price.

The CASE statement is the correct conditional logic to assign each product to the appropriate pricing group.

This view will standardize the pricing group logic across different databases and semantic models.

NEW QUESTION # 146

You have a Fabric tenant that contains a semantic model. The model contains 15 tables.

You need to programmatically change each column that ends in the word Key to meet the following requirements:

- Hide the column.
- Set Nullable to False
- Set Summarize By to None.
- Set Available in MDX to False.
- Mark the column as a key column.

What should you use?

- A. Tabular Editor
- B. DAX Studio
- C. ALM Toolkit
- D. Microsoft Power BI Desktop

Answer: A

Explanation:

Tabular Editor allows you to use C# scripts to automate these changes. In PBI Desktop you can do this only manually.

NEW QUESTION # 147

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