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Microsoft DP-600 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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.

Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q36-Q41):

NEW QUESTION # 36

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

You are exploring a new semantic model.

You need to display the following column statistics:

- * Count
- * Average
- * Null count
- * Distinct count
- * Standard deviation

Which Power Query function should you run?

- A. Table.Schema
- B. Table.View
- **C. Table.Profile**
- D. Table.FuzzyGroup

Answer: C

Explanation:

The Table.Profile function in Power Query is used to generate column statistics such as count, average, null count, distinct count, and standard deviation. You can use this function as follows:

- * Invoke the Power Query Editor.
- * Apply the Table.Profile function to your table.
- * The result will be a table where each row represents a column from the original table, and each column in the result represents a different statistic such as those listed in the requirement.

References: The use of Table.Profile is part of Power Query M function documentation where it explains how to gather column statistics for a given table.

NEW QUESTION # 37

You have a Fabric tenant that contains a workspace named Workspace1. Workspace1 contains a single semantic model that has two Microsoft Power BI reports.

You have a Microsoft 365 subscription that contains a data loss prevention (DLP) policy named DLP1.

You need to apply DLP1 to the items in Workspace1.

What should you do?

- A. Create a workspace identity.
- B. Apply a master data endorsement to the semantic model.
- C. Apply sensitivity labels to the semantic model and reports.
- D. Apply a certified endorsement to the semantic model.

Answer: C

Explanation:

Step 1: Understand the scenario

Workspace1 contains a semantic model and two Power BI reports.

A Microsoft 365 Data Loss Prevention (DLP) policy (DLP1) already exists.

Requirement: Apply DLP1 to the workspace items.

In Microsoft Fabric and Power BI, DLP policies are enforced through Microsoft Purview Information Protection (MIP) sensitivity labels.

Step 2: Evaluate each option

A). Apply a master data endorsement to the semantic model.

Endorsements (promoted, certified) help users find and trust datasets but do not enforce DLP policies.

Not correct.

B). Apply a certified endorsement to the semantic model.

Certification improves discoverability and trust, but again, it does not trigger DLP policy enforcement.

Not correct.

C). Create a workspace identity.

Workspace identity (service principal) is used for connecting to external resources with managed identity.

It does not relate to DLP policy application.

Not correct.

D). Apply sensitivity labels to the semantic model and reports.

Sensitivity labels (from Microsoft Purview) integrate with Microsoft 365 DLP policies.

When sensitivity labels are applied to Power BI datasets, reports, dashboards, and workspaces, DLP1 can enforce protections such as preventing sharing or exporting sensitive data.

This is the correct answer.

Step 3: Correct Action

To apply DLP1 to Workspace1 items, you must:

Configure sensitivity labels in Microsoft Purview.

Apply those sensitivity labels to the semantic model and reports inside Workspace1.

The existing DLP1 policy will then govern data handling for those items.

References

Sensitivity labels in Power BI

Apply sensitivity labels to Power BI items

DLP policies in Microsoft Purview

NEW QUESTION # 38

You have a Fabric tenant that contains a lakehouse named Lakehouse1

Readings from 100 IoT devices are appended to a Delta table in Lakehouse1. Each set of readings is approximately 25 KB.

Approximately 10 GB of data is received daily.


All the table and SparkSession settings are set to the default.

You discover that queries are slow to execute. In addition, the lakehouse storage contains data and log files that are no longer used.

You need to remove the files that are no longer used and combine small files into larger files with a target size of 1 GB per file.

What should you do? To answer, drag the appropriate actions to the correct requirements. Each action 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.

Actions	Answer Area
Set the autoCompact table setting.	 Remove the files: <input type="text"/> Combine the files: <input type="text"/>
Set the optimizeWrite table setting.	
Run the VACUUM command on a schedule.	
Set the autoCompact SparkSession setting.	
Run the OPTIMIZE command on a schedule.	
Set the parallelDelete SparkSession setting.	

Answer:

Explanation:

ACTIONS

- Set the autoCompact table setting.
- Set the optimizeWrite table setting.
- Run the VACUUM command on a schedule.
- Set the autoCompact SparkSession setting.
- Run the OPTIMIZE command on a schedule.
- Set the parallelDelete SparkSession setting.

ANSWER AREA

Remove the files: Run the VACUUM command on a schedule.

Combine the files: Set the optimizeWrite table setting.

Explanation:

* Remove the files: Run the VACUUM command on a schedule.

* Combine the files: Set the optimizeWrite table setting, or Run the OPTIMIZE command on a schedule.

To remove files that are no longer used, the VACUUM command is used in Delta Lake to clean up invalid files from a table. To combine smaller files into larger ones, you can either set the optimizeWrite setting to combine files during write operations or use the OPTIMIZE command, which is a Delta Lake operation used to compact small files into larger ones.

NEW QUESTION # 39

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.

ACTIONS

- View the Server Timings tab.
- From Performance analyzer, capture a recording.
- 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.
- Copy the first query to DAX Studio.

Answer Area

Microsoft

Answer:

Explanation:

Actions

- View the Server Timings tab.
- From Performance analyzer, capture a recording.
- 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.
- Copy the first query to DAX Studio.

Answer Area

- 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.

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 # 40

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.

SCD Types

Type 0

Type 1

Type 2

Type 3

Answer Area

Customers:

Products:

Answer:

Explanation:

SCD Types

Type 0

Type 1

Type 2

Type 3

Answer Area

Customers:

Products:

Explanation:

