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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.

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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q161-Q166):

NEW QUESTION # 161

You have a Fabric tenant that contains lakehouse named Lakehouse1. Lakehouse1 contains a Delta table with eight columns. You receive new data that contains the same eight columns and two additional columns.

You create a Spark DataFrame and assign the DataFrame to a variable named df. The DataFrame contains the new data. You need to add the new data to the Delta table to meet the following requirements:

* Keep all the existing rows.

* Ensure that all the new data is added to the table.

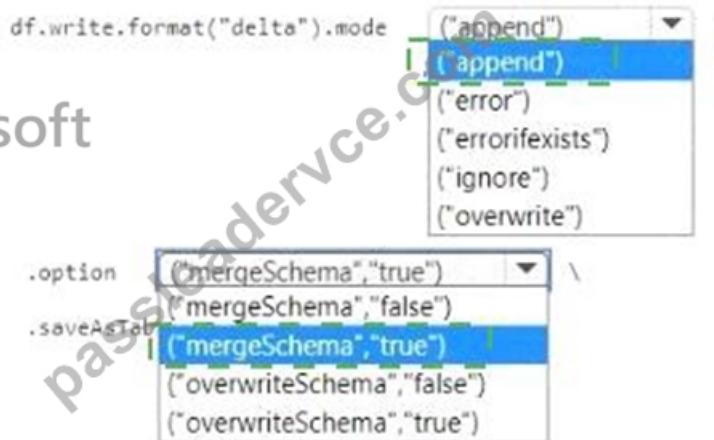
How should you complete the code? To answer, select the appropriate options in the answer area.

Answer Area

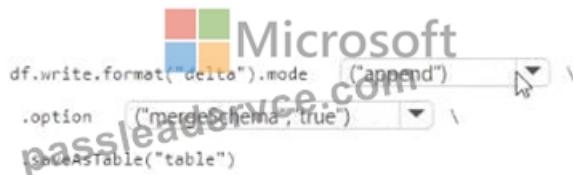


Answer:

Explanation:
Answer Area



Explanation:
Answer Area



o add new data to the Delta table while meeting the specified requirements:

- * You should use the append mode to ensure that all new data is added to the table without affecting the existing rows.
- * You should set the mergeSchema option to true to allow the schema of the Delta table to be updated with the new columns found in the DataFrame.

The completed code would look like this:

```
df.write.format("delta").mode("append")
option("mergeSchema", "true")
saveAsTable("Lakehouse1.TableName")
```

NEW QUESTION # 162

You have a Microsoft Power BI semantic model.

You need to identify any surrogate key columns in the model that have the Summarize By property set to a value other than to None. The solution must minimize effort.

What should you use?

- A. Best Practice Analyzer in Tabular Editor
- B. Model view in Microsoft Power BI Desktop
- C. Model explorer in Microsoft Power BI Desktop
- D. DAX Formatter in DAX Studio

Answer: A

Explanation:

To identify surrogate key columns with the "Summarize By" property set to a value other than "None," the Best Practice Analyzer in Tabular Editor is the most efficient tool. The Best Practice Analyzer can analyze the entire model and provide a report on all columns that do not meet a specified best practice, such as having the "Summarize By" property set correctly for surrogate key columns.

Here's how you would proceed:

Open your Power BI model in Tabular Editor.

Go to the Advanced Scripting window.

Write or use an existing script that checks the "Summarize By" property of each column.

Execute the script to get a report on the surrogate key columns that do not have their "Summarize By" property set to "None".

You can then review and adjust the properties of the columns directly within the Tabular Editor.

NEW QUESTION # 163

You create a semantic model by using Microsoft Power BI Desktop. The model contains one security role named SalesRegionManager and the following tables:

- * Sales
- * SalesRegion
- * Sales Ad dress

You need to modify the model to ensure that users assigned the SalesRegionManager role cannot see a column named Address in Sales Address.

Which three 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

::: Open the model in Power BI Desktop.

::: Set Object Level Security to **Default** for SalesRegionManager.

::: Set the Hidden property to **True**.

::: Open the model in Tabular Editor.

::: Select the **Address** column in SalesAddress.

::: Set Object Level Security to **None** for SalesRegionManager.

Answer Area



Answer:

Explanation:

Actions

::: Open the model in Power BI Desktop.

::: Set Object Level Security to **Default** for SalesRegionManager.

::: Set the Hidden property to **True**.

::: Open the model in Tabular Editor.

::: Select the **Address** column in SalesAddress.

::: Set Object Level Security to **None** for SalesRegionManager.

Answer Area

::: Open the model in Tabular Editor.

::: Select the **Address** column in SalesAddress.

::: Set Object Level Security to **None** for SalesRegionManager.



Explanation:

Actions

Answer Area

- 1 Open the model in Tabular Editor.
- 2 Select the Address column in SalesAddress.
- 3 Set Object Level Security to None for SalesRegionManager.

To ensure that users assigned the SalesRegionManager role cannot see the Address column in the SalesAddress table, follow these steps in sequence:

- * Open the model in Tabular Editor.
- * Select the Address column in SalesAddress.
- * Set Object Level Security to None for SalesRegionManager.

NEW QUESTION # 164

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 Area

Authentication method: Service principal authentication

Mode: DirectQuery

Answer:

Explanation:

Answer Area

Authentication method: Service principal authentication

Mode: DirectQuery

NEW QUESTION # 165

You need to refresh the Orders table of the Online Sales department. The solution must meet the semantic model requirements. What should you include in the solution?

- A. an Azure Data Factory pipeline that executes a Stored procedure activity to retrieve the minimum value of the OrderID column in the destination lakehouse
- B. an Azure Data Factory pipeline that executes a dataflow to retrieve the maximum value of the OrderID column in the destination lakehouse
- C. an Azure Data Factory pipeline that executes a dataflow to retrieve the minimum value of the OrderID column in the destination lakehouse
- D. an Azure Data Factory pipeline that executes a Stored procedure activity to retrieve the maximum value of the OrderID column in the destination lakehouse

Answer: B

Explanation:

Requirement: "The number of rows added to the Orders table during refreshes must be minimized." The Orders table has a sequential OrderID.

To minimize refresh size, you must only import new rows, not the entire table.

This requires retrieving the maximum OrderID currently loaded, then only loading rows with a greater OrderID.

So, the correct solution is to use a pipeline (ADF) with a dataflow to retrieve the maximum OrderID.

an Azure Data Factory pipeline that executes a dataflow to retrieve the maximum value of the OrderID column in the destination lakehouse

NEW QUESTION # 166

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