

Microsoft

Exam Questions DP-600

Implementing Analytics Solutions Using Microsoft Fabric



NEW QUESTION 1

- (Topic 1)

You need to recommend a solution to prepare the tenant for the PoC.

Which two actions should you recommend performing from the Fabric Admin portal? Each correct answer presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. Enable the Users can try Microsoft Fabric paid features option for specific security groups.
- B. Enable the Allow Azure Active Directory guest users to access Microsoft Fabric option for specific security groups.
- C. Enable the Users can create Fabric items option and exclude specific security groups.
- D. Enable the Users can try Microsoft Fabric paid features option for the entire organization.
- E. Enable the Users can create Fabric items option for specific security groups.

Answer: AE

Explanation:

The PoC is planned to be completed using a Fabric trial capacity, which implies that users involved in the PoC should be able to try paid features. However, this should be limited to specific security groups involved in the PoC to prevent the entire organization from accessing these features before the trial is proven successful (A). The ability for users to create Fabric items should also be enabled for specific security groups to ensure that only the relevant team members participating in the PoC can create items in the Fabric environment (E).

NEW QUESTION 2

- (Topic 1)

You need to implement the date dimension in the data store. The solution must meet the technical requirements.

What are two ways to achieve the goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Populate the date dimension table by using a dataflow.
- B. Populate the date dimension table by using a Stored procedure activity in a pipeline.
- C. Populate the date dimension view by using T-SQL.
- D. Populate the date dimension table by using a Copy activity in a pipeline.

Answer: AB

Explanation:

Both a dataflow (A) and a Stored procedure activity in a pipeline (B) are capable of creating and populating a date dimension table. A dataflow can perform the transformation needed to create the date dimension, and it aligns with the preference for using low-code tools for data ingestion when possible. A Stored procedure could be written to generate the necessary date dimension data and executed within a pipeline, which also adheres to the technical requirements for the PoC.

NEW QUESTION 3

- (Topic 2)

You have a Fabric tenant that contains a lakehouse. You plan to use a visual query to merge two tables.

You need to ensure that the query returns all the rows that are present in both tables. Which type of join should you use?

- A. left outer
- B. right anti
- C. full outer
- D. left anti
- E. right outer
- F. inner

Answer: C

Explanation:

When you need to return all rows that are present in both tables, you use a full outer join. This type of join combines the results of both left and right outer joins and returns all rows from both tables, with matching rows from both sides where available. If there is no match, the result is NULL on the side of the join where there is no match. References: Information about joins and their use in querying data in a lakehouse can be typically found in the SQL and data processing documentation of the Fabric tenant or lakehouse solutions.

NEW QUESTION 4

- (Topic 2)

You have a Fabric tenant that contains a new semantic model in OneLake. You use a Fabric notebook to read the data into a Spark DataFrame.

You need to evaluate the data to calculate the min, max, mean, and standard deviation values for all the string and numeric columns.

Solution: You use the following PySpark expression: `df.explain()`

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The `df.explain()` method does not meet the goal of evaluating data to calculate statistical functions. It is used to display the physical plan that Spark will execute. References = The correct usage of the `explain()` function can be found in the PySpark documentation.

NEW QUESTION 5

- (Topic 2)

You have a Fabric tenant that contains a complex semantic model. The model is based on a star schema and contains many tables, including a fact table named

Sales. You need to create a diagram of the model. The diagram must contain only the Sales table and related tables. What should you use from Microsoft Power BI Desktop?

- A. data categories
- B. Data view
- C. Model view
- D. DAX query view

Answer: C

Explanation:

To create a diagram that contains only the Sales table and related tables, you should use the Model view (C) in Microsoft Power BI Desktop. This view allows you to visualize and manage the relationships between tables within your semantic model. References = Microsoft Power BI Desktop documentation outlines the functionalities available in Model view for managing semantic models.

NEW QUESTION 6

HOTSPOT - (Topic 2)

You have a Fabric tenant that contains a lakehouse named Lakehouse1. Lakehouse1 contains a table named Nyctaxi_raw. Nyctaxi_raw contains the following columns.

Name	Data type
pickupDateTime	Timestamp
passengerCount	Integer
fareAmount	Double
paymentType	String
tipAmount	Double

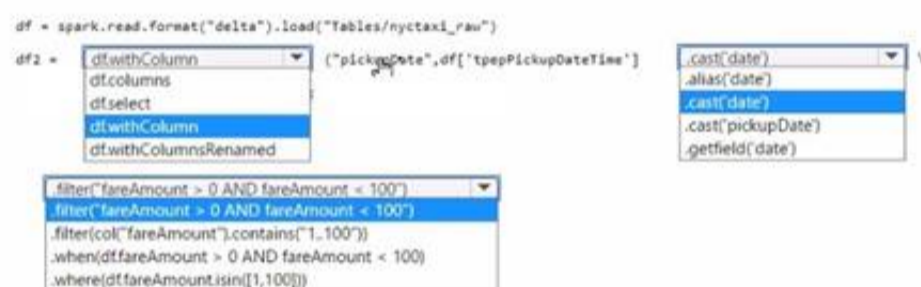
You create a Fabric notebook and attach it to lakehouse1.

You need to use PySpark code to transform the data. The solution must meet the following requirements:

- Add a column named pickupDate that will contain only the date portion of pickupDateTime.
- Filter the DataFrame to include only rows where fareAmount is a positive number that is less than 100.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

? Add the pickupDate column: .withColumn("pickupDate", df["pickupDateTime"].cast("date"))

? Filter the DataFrame: .filter("fareAmount > 0 AND fareAmount < 100")

In PySpark, you can add a new column to a DataFrame using the .withColumn method, where the first argument is the new column name and the second argument is the expression to generate the content of the new column. Here, we use the .cast("date") function to extract only the date part from a timestamp. To filter the DataFrame, you use the .filter method with a condition that selects rows where fareAmount is greater than 0 and less than 100, thus ensuring only positive values less than 100 are included.

NEW QUESTION 7

- (Topic 2)

You have a Fabric tenant that contains a semantic model. The model uses Direct Lake mode.

You suspect that some DAX queries load unnecessary columns into memory. You need to identify the frequently used columns that are loaded into memory.

What are two ways to achieve the goal? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

- A. Use the Analyze in Excel feature.
- B. Use the Vertipaq Analyzer tool.
- C. Query the \$system.discovered_STORAGE_TABLE_COLUMN-IN_SEGMeNTS dynamic management view (DMV).
- D. Query the discover_hehory6Rant dynamic management view (DMV).

Answer: BC

Explanation:

The Vertipaq Analyzer tool (B) and querying the

\$system.discovered_STORAGE_TABLE_COLUMNS_IN_SEGMENTS dynamic management view (DMV) (C) can help identify which columns are frequently loaded into memory. Both methods provide insights into the storage and retrieval aspects of the semantic model. References = The Power BI documentation on Vertipaq Analyzer and DMV queries offers detailed guidance on how to use these tools for performance analysis.

NEW QUESTION 8

DRAG DROP - (Topic 2)

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 9

- (Topic 2)

You have a Fabric tenant that contains a lakehouse.

You plan to query sales data files by using the SQL endpoint. The files will be in an Amazon Simple Storage Service (Amazon S3) storage bucket.

You need to recommend which file format to use and where to create a shortcut. Which two actions should you include in the recommendation? Each correct answer

presents part of the solution.

NOTE: Each correct answer is worth one point.

- A. Create a shortcut in the Files section.
- B. Use the Parquet format
- C. Use the CSV format.
- D. Create a shortcut in the Tables section.
- E. Use the delta format.

Answer: BD

Explanation:

You should use the Parquet format (B) for the sales data files because it is optimized for performance with large datasets in analytical processing and create a shortcut in the Tables section (D) to facilitate SQL queries through the lakehouse's SQL endpoint. References = The best practices for working with file formats and shortcuts in a lakehouse environment are covered in the lakehouse and SQL endpoint documentation provided by the cloud data platform services.

NEW QUESTION 10

- (Topic 2)

You have a Fabric tenant that contains a semantic model named Model1. Model1 uses Import mode. Model1 contains a table named Orders. Orders has 100 million rows and the following fields.

Name	Data type	Description
OrderId	Integer	Column imported from the source
OrderDateTime	Date/time	Column imported from the source
Quantity	Integer	Column imported from the source
Price	Decimal	Column imported from the source
TotalSalesAmount	Decimal	Calculated column that multiplies Quantity and Price
TotalQuantity	Integer	Measure

You need to reduce the memory used by Model! and the time it takes to refresh the model. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Split OrderDateTime into separate date and time columns.
- B. Replace TotalQuantity with a calculated column.
- C. Convert Quantity into the Text data type.

D. Replace TotalSalesAmount with a measure.

Answer: AD

Explanation:

To reduce memory usage and refresh time, splitting the OrderDateTime into separate date and time columns (A) can help optimize the model because date/time data types can be more memory-intensive than separate date and time columns. Moreover, replacing TotalSalesAmount with a measure (D) instead of a calculated column ensures that the calculation is performed at query time, which can reduce the size of the model as the value is not stored but calculated on the fly. References = The best practices for optimizing Power BI models are detailed in the Power BI documentation, which recommends using measures for calculations that don't need to be stored and adjusting data types to improve performance.

NEW QUESTION 10

- (Topic 2)

You have a Microsoft Fabric tenant that contains a dataflow. You are exploring a new semantic model.

From Power Query, you need to view column information as shown in the following exhibit.



Which three Data view options should you select? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Enable column profile
- B. Show column quality details
- C. Show column profile in details pane
- D. Enable details pane
- E. Show column value distribution

Answer: ABE

Explanation:

To view column information like the one shown in the exhibit in Power Query, you need to select the options that enable profiling and display quality and distribution details. These are: A. Enable column profile - This option turns on profiling for each column, showing statistics such as distinct and unique values. B. Show column quality details - It displays the column quality bar on top of each column showing the percentage of valid, error, and empty values. E. Show column value distribution - It enables the histogram display of value distribution for each column, which visualizes how often each value occurs.

References: These features and their descriptions are typically found in the Power Query documentation, under the section for data profiling and quality features.

NEW QUESTION 12

HOTSPOT - (Topic 2)

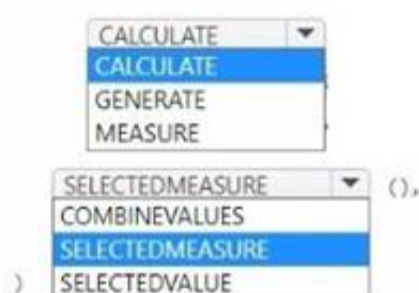
You have a Microsoft Power BI semantic model. You plan to implement calculation groups.

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 Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

To create a calculation item that changes the context from the selected date to month-to-date (MTD), the appropriate DAX expression involves using the CALCULATE function to alter the filter context and the DATESMTD function to specify the month-to-date context. The correct completion for the DAX expression would be:

? In the first dropdown, select CALCULATE.

? In the second dropdown, select SELECTEDMEASURE. This would create a DAX expression in the form:

```
CALCULATE( SELECTEDMEASURE(),  
DATESMTD('Date'[DateColumn])  
)
```

NEW QUESTION 14

HOTSPOT - (Topic 2)

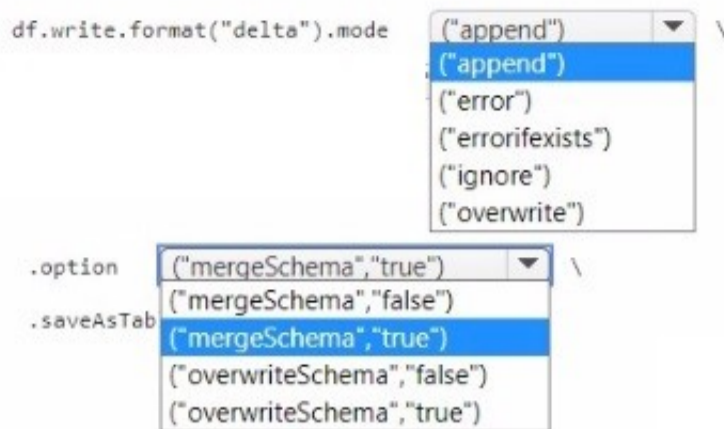
You have a Fabric tenant that contains lakehouse named Lakehouse1. Lakehouse1 contains a Delta table with eight columns. You receive new data that contains the same eight columns and two additional columns.

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 17

- (Topic 2)

You have a Fabric tenant that contains a warehouse.

A user discovers that a report that usually takes two minutes to render has been running for 45 minutes and has still not rendered.

You need to identify what is preventing the report query from completing. Which dynamic management view (DMV) should you use?

- A. sys.dm-exec_requests
- B. sys.dm_exec_sessions
- C. sys.dm_exec_connections
- D. sys.dm_pdw_exec_requests

Answer: D

Explanation:

The correct DMV to identify what is preventing the report query from completing is sys.dm_pdw_exec_requests (D). This DMV is specific to Microsoft Analytics Platform System (previously known as SQL Data Warehouse), which is the environment assumed to be used here. It provides information about all queries and load commands currently running or that have recently run. References = You can find more about DMVs in the Microsoft documentation for Analytics Platform System.

NEW QUESTION 20

- (Topic 2)

You have a Fabric tenant that contains a lakehouse named lakehouse1. Lakehouse1 contains a table named Table1.

You are creating a new data pipeline.

You plan to copy external data to Table1. The schema of the external data changes regularly.

You need the copy operation to meet the following requirements:

- Replace Table1 with the schema of the external data.
- Replace all the data in Table1 with the rows in the external data.

You add a Copy data activity to the pipeline. What should you do for the Copy data activity?

- A. From the Source tab, add additional columns.
- B. From the Destination tab, set Table action to Overwrite.
- C. From the Settings tab, select Enable staging
- D. From the Source tab, select Enable partition discovery
- E. From the Source tab, select Recursively

Answer: B

Explanation:

For the Copy data activity, from the Destination tab, setting Table action to Overwrite (B) will ensure that Table1 is replaced with the schema and rows of the external data, meeting the requirements of replacing both the schema and data of the destination table. References = Information about Copy data activity and table actions in Azure Data Factory, which can be applied to data pipelines in Fabric, is available in the Azure Data Factory documentation.

NEW QUESTION 25

- (Topic 2)

You need to provide Power BI developers with access to the pipeline. The solution must meet the following requirements:

- Ensure that the developers can deploy items to the workspaces for Development and Test.
- Prevent the developers from deploying items to the workspace for Production.
- Follow the principle of least privilege.

Which three levels of access should you assign to the developers? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Build permission to the production semantic models
- B. Admin access to the deployment pipeline
- C. Viewer access to the Development and Test workspaces
- D. Viewer access to the Production workspace
- E. Contributor access to the Development and Test workspaces
- F. Contributor access to the Production workspace

Answer: BDE

Explanation:

To meet the requirements, developers should have Admin access to the deployment pipeline (B), Contributor access to the Development and Test workspaces (E), and Viewer access to the Production workspace (D). This setup ensures they can perform necessary actions in development and test environments without having the ability to affect production. References = The Power BI documentation on workspace access levels and deployment pipelines provides guidelines on assigning appropriate permissions.

NEW QUESTION 30

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