DP-600^{Q&As}

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Implementing Analytics Solutions Using Microsoft Fabric

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QUESTION 1

You are creating a semantic model in Microsoft Power BI Desktop.

You plan to make bulk changes to the model by using the Tabular Model Definition Language (TMDL) extension for Microsoft Visual Studio Code.

You need to save the semantic model to a file.

Which file format should you use?

A. PBIP

B. PBIX

C. PBIT

D. PBIDS

Correct Answer: B

Explanation: When saving a semantic model to a file that can be edited using the Tabular Model Scripting Language (TMSL) extension for Visual Studio Code, the PBIX (Power BI Desktop) file format is the correct choice. The PBIX format contains the report, data model, and queries, and is the primary file format for editing in Power BI Desktop. References = Microsoft\\'s documentation on Power BI file formats and Visual Studio Code provides further clarification on the usage of PBIX files.

QUESTION 2

You have a Fabric tenant that contains a machine learning model registered in a Fabric workspace. You need to use the model to generate predictions by using the predict function in a fabric notebook. Which two languages can you use to perform model scoring? Each correct answer presents a complete solution. NOTE: Each correct answer is worth one point.

A. T-SQL

B. DAX EC.

C. Spark SQL

D. PySpark

Correct Answer: CD

Explanation: The two languages you can use to perform model scoring in a Fabric notebook using the predict function are Spark SQL (option C) and PySpark (option D). These are both part of the Apache Spark ecosystem and are supported for machine learning tasks in a Fabric environment. References = You can find more information about model scoring and supported languages in the context of Fabric notebooks in the official documentation on Azure Synapse Analytics.

QUESTION 3

You have a Fabric tenant that contains a data pipeline.

You need to ensure that the pipeline runs every four hours on Mondays and Fridays.

To what should you set Repeat for the schedule?

A. Daily

B. By the minute

C. Weekly

D. Hourly

Correct Answer: C

Explanation: You should set Repeat for the schedule to Weekly (C). This allows you to specify the pipeline to run on specific days of the week, in this case, every four hours on Mondays and Fridays. References = Scheduling options for data pipelines are available in the Azure Data Factory documentation, which includes details on configuring recurring triggers.

QUESTION 4

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.

Correct 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.

QUESTION 5

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.show()

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Explanation: The df.show() method also does not meet the goal. It is used to show the contents of the DataFrame, not to compute statistical functions. References = The usage of the show() function is documented in the PySpark API documentation.