



DP-600^{Q&As}

Implementing Analytics Solutions Using Microsoft Fabric

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**QUESTION 1**

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 Model1 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 2

You are creating a dataflow in Fabric to ingest data from an Azure SQL database by using a T-SQL statement.

You need to ensure that any foldable Power Query transformation steps are processed by the Microsoft SQL Server engine.

How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value 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.

Select and Place:



Values

EnableFolding

NativeQuery

Optimize

Record

StopFolding

Table

Value

Answer Area

```
let
    Source = Sql.Databases(
        "server.database.windows.net"
    ),
    Database = Source{[Name = "db"]}[Data],
    Query = [ ] - [ ] (
        Database,
        " SELECT * FROM customer WHERE country IN ('USA', 'UK')",
        null,
        [ [ ] = true]
    )
in
    Query
```

Correct Answer:

Values

Optimize

Record

StopFolding

Value

Answer Area

```
let
    Source = Sql.Databases(
        "server.database.windows.net"
    ),
    Database = Source{[Name = "db"]}[Data],
    Query = [Table] - [NativeQuery] (
        Database,
        " SELECT * FROM customer WHERE country IN ('USA', 'UK')",
        null,
        [ [EnableFolding] = true]
    )
in
    Query
```

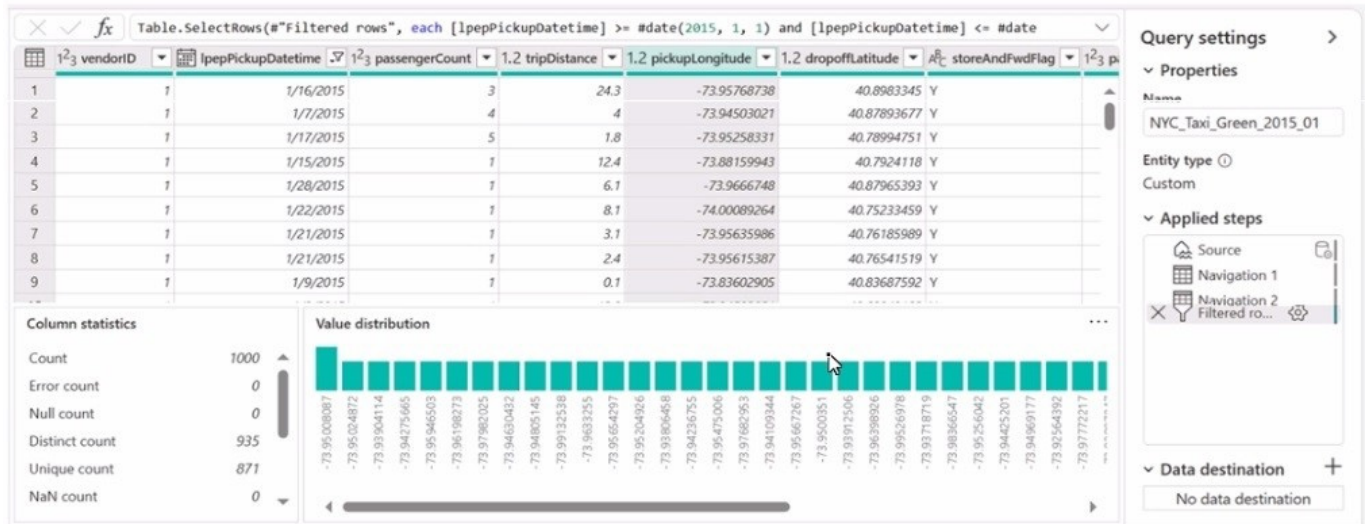
You should complete the code as follows: Table NativeQuery EnableFolding

In Power Query, using Table before the SQL statement ensures that the result of the SQL query is treated as a table. NativeQuery allows a native database query to be passed through from Power Query to the source database. The EnableFolding option ensures that any subsequent transformations that can be folded will be sent back and executed at the source database (Microsoft SQL Server engine in this case).



QUESTION 3

You have a Fabric workspace named Workspace 1 that contains a dataflow named Dataflow1. Dataflow1 has a query that returns 2,000 rows. You view the query in Power Query as shown in the following exhibit.



What can you identify about the pickupLongitude column?

- A. The column has duplicate values.
- B. All the table rows are profiled.
- C. The column has missing values.
- D. There are 935 values that occur only once.

Correct Answer: A

Explanation: The pickupLongitude column has duplicate values. This can be inferred because the 'Distinct count' is 935 while the 'Count' is 1000, indicating that there are repeated values within the column. References = Microsoft Power BI documentation on data profiling could provide further insights into understanding and interpreting column statistics like these.

QUESTION 4

You have a Fabric tenant that contains a warehouse.

You use a dataflow to load a new dataset from OneLake to the warehouse.

You need to add a Power Query step to identify the maximum values for the numeric columns.

Which function should you include in the step?

- A. Table.MaxN
- B. Table.Max



C. Table.Range

D. Table.Profile

Correct Answer: B

Explanation: The Table.Max function should be used in a Power Query step to identify the maximum values for the numeric columns. This function is designed to calculate the maximum value across each column in a table, which suits the requirement of finding maximum values for numeric columns. References = For detailed information on Power Query functions, including Table.Max, please refer to Power Query M function reference.

QUESTION 5

You have a Fabric tenant that contains two lakehouses.

You are building a dataflow that will combine data from the lakehouses. The applied steps from one of the queries in the dataflow is shown in the following exhibit.



Query settings >

▼ Properties

Name

Customers1

Entity type ⓘ

Custom

▼ Applied steps

	Source		
	Navigation 1		
	Capitalized each word		
	Appended query		
	Changed column type		
	Filtered rows		

Edit settings

Rename

Delete

Delete until end

Insert step after

Move before

Move after

Extract previous...

View data source query

View query plan

Properties...

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.



Hot Area:

[Answer choice] of the transformation steps in the query will fold.

Some
All
None
Some
the Microsoft Power Query engine

The Added custom step will be performed in [answer choice].

the Microsoft Power Query engine
each lakehouse's query engine
the Microsoft Power Query engine
the source lakehouse query engine

Correct Answer:

[Answer choice] of the transformation steps in the query will fold.

Some
All
None
Some
the Microsoft Power Query engine

The Added custom step will be performed in [answer choice].

the Microsoft Power Query engine
each lakehouse's query engine
the Microsoft Power Query engine
the source lakehouse query engine

Folding in Power Query refers to operations that can be translated into source queries. In this case, "some" of the steps can be folded, which means that some transformations will be executed at the data source level. The steps that cannot be folded will be executed within the Power Query engine. Custom steps, especially those that are not standard query operations, are usually executed within Power Query engine rather than being pushed down to the source system. References = Query folding in Power Query Power Query M formula language

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