

# DP-500<sup>Q&As</sup>

Designing and Implementing Enterprise-Scale Analytics Solutions Using  
Microsoft Azure and Microsoft Power BI

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### QUESTION 1

You develop a solution that uses a Power BI Premium capacity. The capacity contains a dataset that is expected to consume 50 GB of memory.

Which two actions should you perform to ensure that you can publish the model successfully to the Power BI service? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Increase the Max Offline Dataset Size setting.
- B. Invoke a refresh to load historical data based on the incremental refresh policy.
- C. Restart the capacity.
- D. Publish an initial dataset that is less than 10 GB.
- E. Publish the complete dataset.

Correct Answer: BD

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### QUESTION 2

You are optimizing a dataflow in a Power BI Premium capacity. The dataflow performs multiple joins. You need to reduce the load time of the dataflow. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

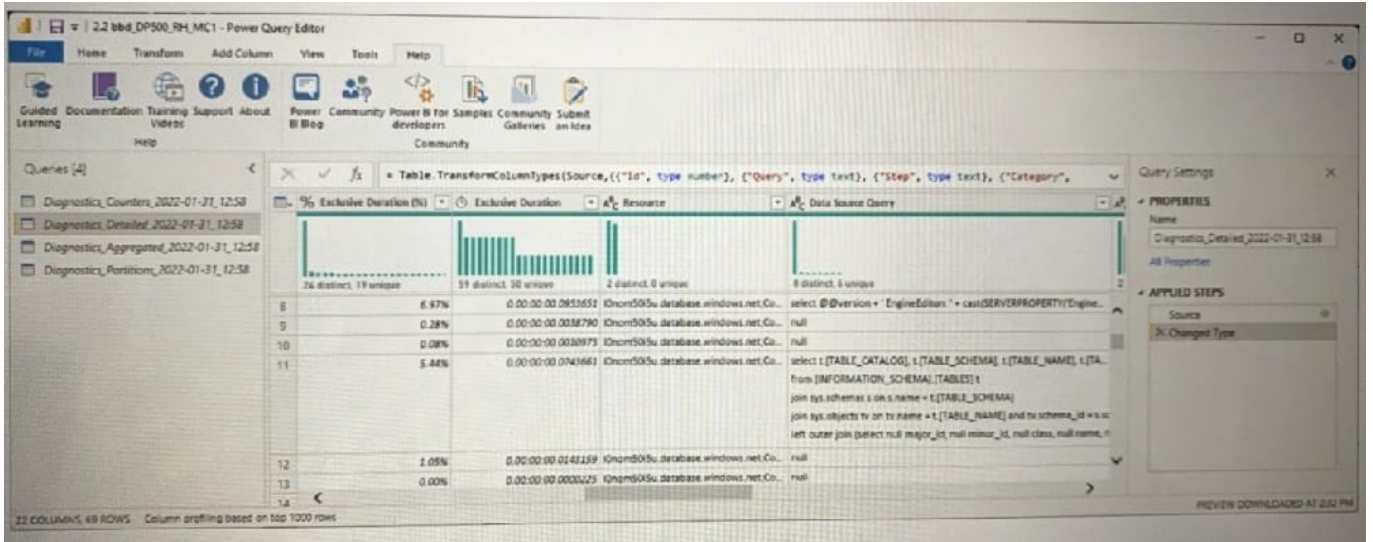
- A. Reduce the memory assigned to the dataflows.
- B. Execute non-foldable operations before foldable operations.
- C. Execute foldable operations before non-foldable operations.
- D. Place the ingestion operations and transformation operations in a single dataflow.
- E. Place the ingestion operations and transformation operations in separate dataflows.

Correct Answer: CD

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### QUESTION 3

You are running a diagnostic against a query as shown in the following exhibit.



What can you identify from the diagnostics query?

- A. All the query steps are folding.
- B. Elevated permissions are being used to query records.
- C. The query is timing out.
- D. Some query steps are folding.

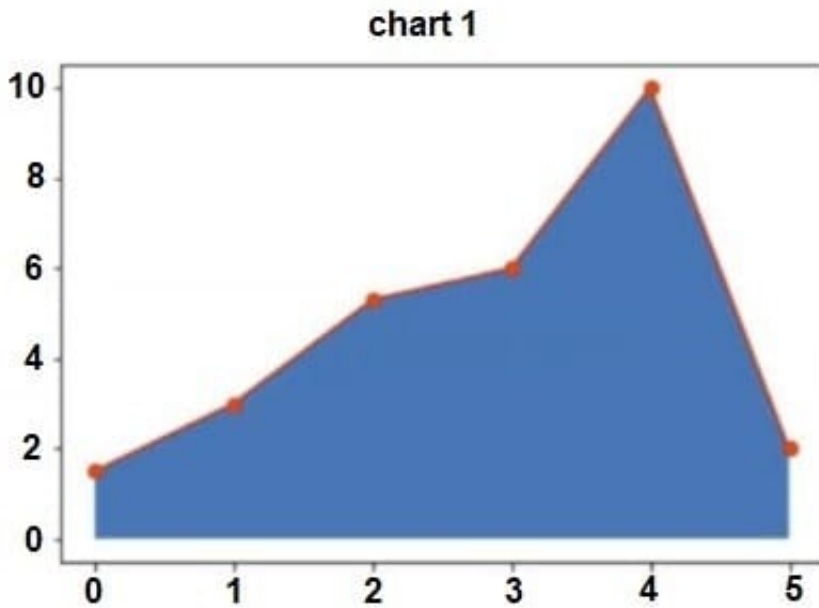
Correct Answer: A

#### QUESTION 4

HOTSPOT

You have an Azure Synapse notebook.

You need to create the visual shown in the following exhibit.



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

Hot Area:

```
import matplotlib.pyplot as plt
x = [0, 1, 2, 3, 4, 5]
y = [1.5, 3, 5.3, 6, 10, 2]
plt.plot(x, y, '-o', color='red')
plt.
```

- ▼ (x, y)
- angle\_spectrum
- axes
- fill
- fill\_between

```
plt. ('chart 1', fontweight='bold')
```

- ▼ ('chart 1', fontweight='bold')
- figtext
- imshow
- legend
- suptitle

```
plt.show()
```

Correct Answer:

```
import matplotlib.pyplot as plt
x = [0, 1, 2, 3, 4, 5]
y = [1.5, 3, 5.3, 6, 10, 2]
plt.plot(x, y, '-o', color='red')
plt.

|                |   |        |
|----------------|---|--------|
|                | ▼ | (x, y) |
| angle_spectrum |   |        |
| axes           |   |        |
| fill           |   |        |
| fill_between   |   |        |


plt.

|         |   |                                |
|---------|---|--------------------------------|
|         | ▼ | ('chart 1', fontweight='bold') |
| figtext |   |                                |
| imshow  |   |                                |
| legend  |   |                                |
| subplot |   |                                |


plt.show()
```

Box 1: fill\_between

matplotlib.pyplot.fill\_between fills the area between two horizontal curves. The curves are defined by the points (x, y1) and (x, y2). This creates one or multiple polygons describing the filled area.

Box 2: subplot

Set the title of the visual.

subplot adds a centred title to the figure.

**QUESTION 5**

You plan to generate a line chart to visualize and compare the last six months of sales data for two departments. You need to increase the accessibility of the visual. What should you do?

- A. Replace long text with abbreviations and acronyms.
- B. Configure a unique marker for each series.
- C. Configure a distinct color for each series.

D. Move important information to a tooltip.

Correct Answer: B

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