

# 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

The enterprise analytics team needs to notify the report owners of the planned changes. The solution must minimize administrative effort. What should the team do?

- A. Locate all the downstream reports, identify all the users that are assigned the Admin role, and then send an email to each user.
- B. Write a PowerShell script to access the Power BI API that retrieves a list of downstream reports and a list of workspace administrators, and then send an email to each workspace administrator.
- C. Perform impact analysis on the Financial Model dataset to notify the workspace contacts.
- D. Perform impact analysis feature on the lake database data source to notify the workspace contacts.

Correct Answer: C

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## QUESTION 2

You have a Power BI Premium capacity.

You need to increase the number of virtual cores associated to the capacity.

Which role do you need?

- A. Power BI workspace admin
- B. capacity admin
- C. Power Platform admin
- D. Power BI admin

Correct Answer: D

Change capacity size

Power BI admins and global administrators can change Power BI Premium capacity. Capacity admins who are not a Power BI admin or global administrator don't have this option.

Reference: <https://docs.microsoft.com/en-us/power-bi/enterprise/service-admin-premium-manage>

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## QUESTION 3

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 4

You have a Power BI workspace named Workspacel in a Premium capacity. Workspacel contains a dataset.

During a scheduled refresh, you receive the following error message: "Unable to save the changes since the new dataset size of 11,354 MB exceeds the limit of 10,240 MB."

You need to ensure that you can refresh the dataset.

What should you do?

- A. Turn on Large dataset storage format.
- B. Connect Workspace1 to an Azure Data Lake Storage Gen2 account
- C. Change License mode to Premium per user.
- D. Change the location of the Premium capacity.

Correct Answer: A

---

## QUESTION 5

Which two possible tools can you use to identify what causes the report to render slowly? Each correct answer presents a complete solution.

- A. Synapse Studio
- B. DAX Studio
- C. Azure Data Studio
- D. Performance analyzer in Power BI Desktop

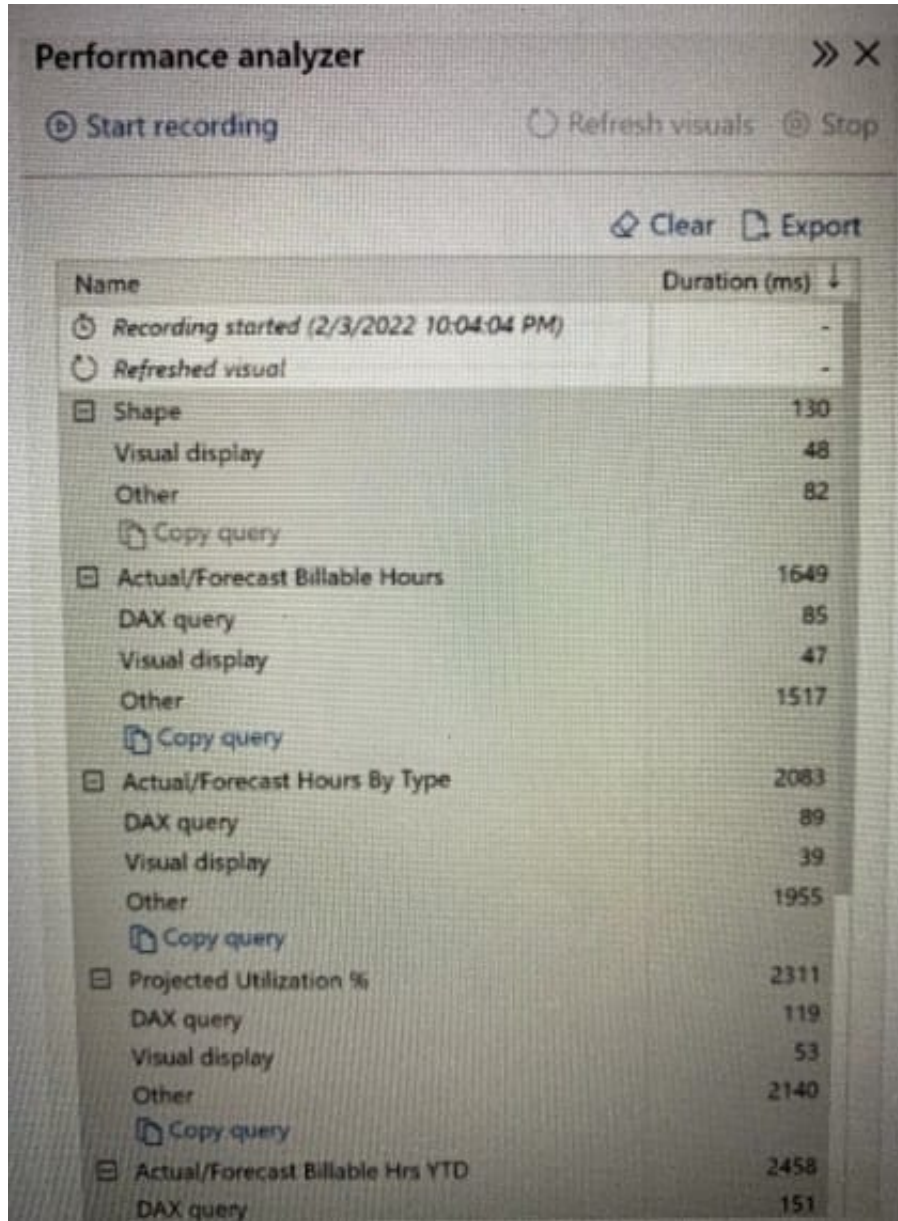
Correct Answer: BD

---

## QUESTION 6

You open a Power BI Desktop report that contains an imported data model and a single report page.

You open Performance analyzer, start recording, and refresh the visuals on the page. The recording produces the results shown in the following exhibit



Name	Duration (ms)
Recording started (2/3/2022 10:04:04 PM)	-
Refreshed visual	-
Shape	130
Visual display	48
Other	82
Copy query	
Actual/Forecast Billable Hours	1649
DAX query	85
Visual display	47
Other	1517
Copy query	
Actual/Forecast Hours By Type	2083
DAX query	89
Visual display	39
Other	1955
Copy query	
Projected Utilization %	2311
DAX query	119
Visual display	53
Other	2140
Copy query	
Actual/Forecast Billable Hrs YTD	2458
DAX query	151

What can you identify from the results?

- A. The Actual/Forecast Hours by Type visual takes a long time to render on the report page when the data is cross-filtered.
- B. The Actual/Forecast Billable Hrs YTD visual displays the most data.
- C. Unoptimized DAX queries cause the page to load slowly.
- D. When all the visuals refresh simultaneously, the visuals spend most of the time waiting on other processes to finish.

Correct Answer: D

## QUESTION 7

## HOTSPOT

You have the following code in an Azure Synapse notebook.

```
import matplotlib.pyplot as plt
x1 = [2, 3, 4]
y1 = [5, 5, 5]
x2 = [1, 2, 3, 4, 5]
y2 = [2, 3, 2, 3, 4]
y3 = [6, 8, 7, 8, 7]
plt.scatter(x1, y1)
plt.scatter(x2, y2, marker='v', color='r')
plt.scatter(x2, y3, marker='^', color='m')
plt.title('Scatter Plot')
plt.show()
```

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

Hot Area:

There will be [answer choice] rendered as the output of the code.	<div>one scatterplot</div> <div>two scatterplots</div> <div>three scatterplots</div>
There will be [answer choice] used in the output.	<div>one marker symbol</div> <div>two marker symbols</div> <div>three marker symbols</div>

Correct Answer:



There will be [answer choice] rendered as the output of the code.

one scatterplot  
two scatterplots  
three scatterplots

There will be [answer choice] used in the output.

one marker symbol  
two marker symbols  
three marker symbols

## QUESTION 8

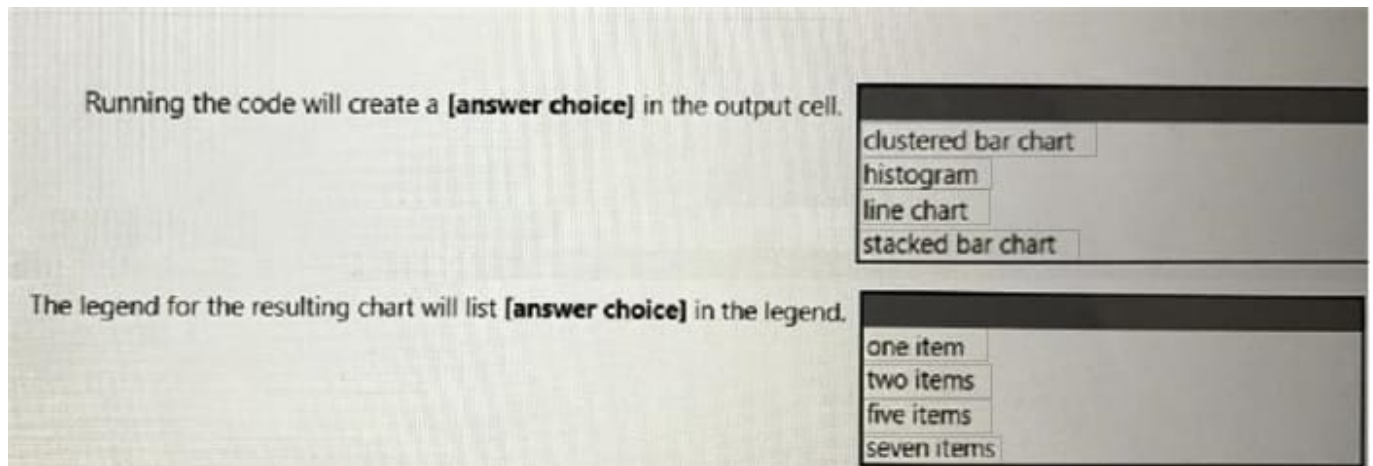
### HOTSPOT

You have the following code in an Azure Synapse notebook.

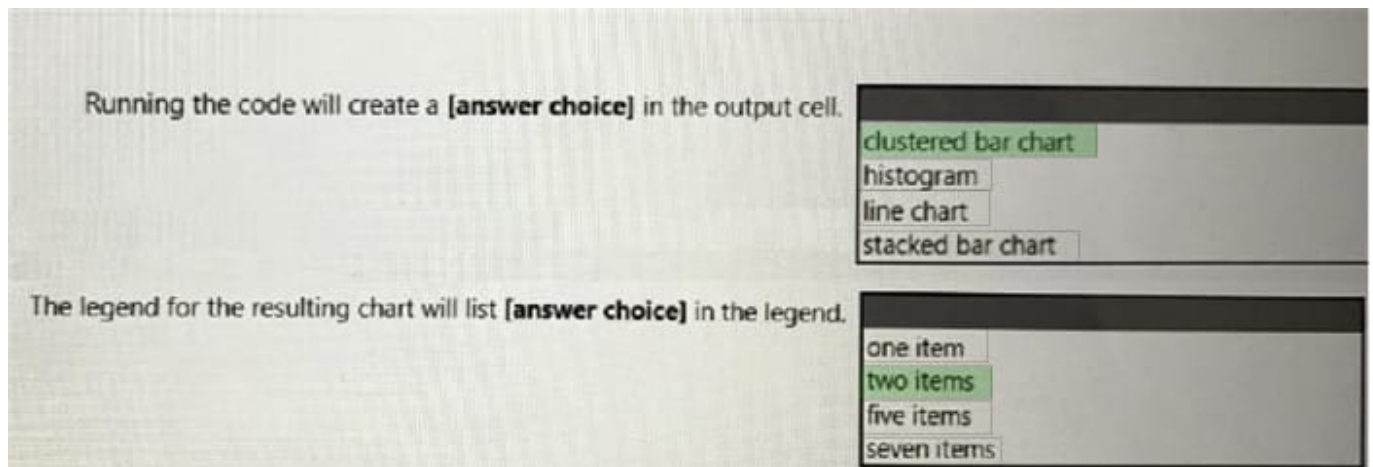
```
import matplotlib.pyplot as plt
x1 = [1, 3, 4, 5, 6, 7, 9]
y1 = [4, 7, 2, 4, 7, 8, 3]
x2 = [2, 4, 6, 8, 10]
y2 = [5, 6, 2, 6, 2]
plt.bar(x1, y1, label="Blue Item", color='b')
plt.bar(x2, y2, label="Green Item", color='g')
plt.plot()
plt.xlabel("Number")
plt.ylabel("Height")
plt.title("My Chart")
plt.legend()
plt.show()
```

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

Hot Area:



Correct Answer:



## QUESTION 9

### HOTSPOT

You have a Power BI dataset that has the query dependencies shown in the following exhibit.



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:

When the dataset refreshes, the orders query will be executed [answer choice] times.

[Answer choice] will reduce data refresh times for this model.

0  
1  
3

Duplicating the Orders query instead of referencing the query  
Replacing the Orders query with a dataflow  
Using Table Buffer in the Orders query

Correct Answer:

When the dataset refreshes, the orders query will be executed [answer choice] times.

[Answer choice] will reduce data refresh times for this model.

0  
1  
3

Duplicating the Orders query instead of referencing the query  
Replacing the Orders query with a dataflow  
Using Table Buffer in the Orders query

## QUESTION 10

You need to recommend a solution to ensure that sensitivity labels are applied. The solution must minimize administrative effort. Which three actions should you include in the recommendation? Each correct answer presents part of the solution.



NOTE: Each correct selection is worth one point.

- A. From the Power BI Admin portal, set Allow users to apply sensitivity labels for Power BI content to Enabled.
- B. From the Power BI Admin portal, set Apply sensitivity labels from data sources to their data in Power BI to Enabled.
- C. In SQLDW, apply sensitivity labels to the columns in the Customer and CustomersWithProductScore tables.
- D. In the Power BI datasets, apply sensitivity labels to the columns in the Customer and CustomersWithProductScore tables.
- E. From the Power BI Admin portal, set Make certified content discoverable to Enabled.

Correct Answer: ABC

## QUESTION 11

From Power Query Editor, you profile the data shown in the following exhibit.

	IoT GUID	IoT DateTime	IoT ID
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
1	48196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:15	100001000
2	49196321-38D9-EC11-BB3D-0022489A2...	21/05/2022 18:59:26	100001001
3	0300C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001002
4	0400C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001003
5	0500C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001004
6	0600C742-38D9-EC11-BB3D-0022489A2...	21/05/2022 19:00:21	100001005

The IoT GUID and IoT ID columns are unique to each row in the query.

You need to analyze IoT events by the hour and day of the year. The solution must improve dataset performance.

Solution: You remove the IoT GUID column and retain the IoT ID column.

Does this meet the goal?

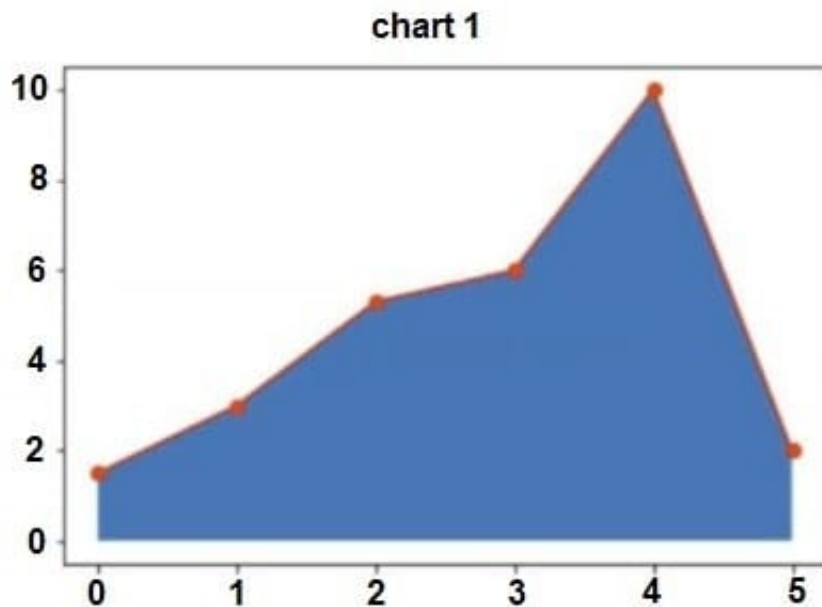
- A. Yes
- B. No

Correct Answer: A

**QUESTION 12****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.
```

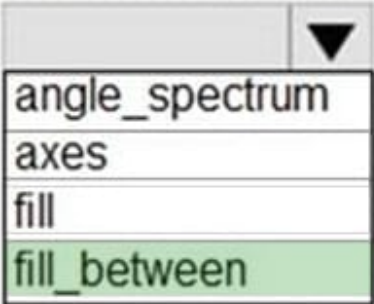
	▼
angle_spectrum	
axes	
fill	
fill_between	

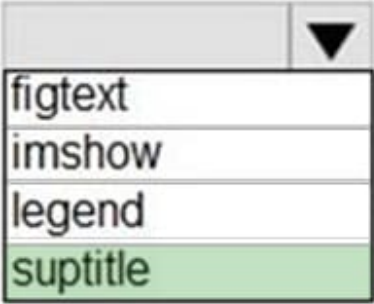
```
plt.
```

	▼
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)

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

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: subtitle

Set the title of the visual.

subtitle adds a centred title to the figure.

## QUESTION 13

### HOTSPOT

You need to configure a source control solution for Azure Synapse Analytics. The solution must meet the following requirements:

Code must always be merged to the main branch before being published, and the main branch must be used for publishing resource

The workspace templates must be stored in the publish branch.

A branch named dev123 will be created to support the development of a new feature.

What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Set the collaboration branch to:

- main
- publish
- dev123
- workspace\_publish

Base the dev123 branch on:

- main
- publish
- dev123
- workspace\_publish

Correct Answer:

Set the collaboration branch to:

- main
- publish
- dev123
- workspace\_publish

Base the dev123 branch on:

- main
- publish
- dev123
- workspace\_publish



## QUESTION 14

You need to configure the Sales Analytics workspace to meet the ad hoc reporting requirements. What should you do?

- A. Grant the sales managers the Build permission for the existing Power BI datasets.
- B. Grant the sales managers admin access to the existing Power BI workspace.
- C. Create a deployment pipeline and grant the sales managers access to the pipeline.
- D. Create a PBIT file and distribute the file to the sales managers.

Correct Answer: A

## QUESTION 15

### HOTSPOT

You use Vertipaq Analyzer to analyze a model.

The Relationships tab contains the results shown in the following exhibit.

IsRowNumber Cardinality (Filter)	FALSE All								
Row Labels	Relationship Type	Max From Cardinality	Max to Cardinality	1:M Ratio	% Missing Keys	Invalid Rows	Relationships	Size	Filters MMR
'Date' [Date] ==<-1 'LocalDateTable_39c22ddb-27f3-4e6c-8a44-a3380850fcb4' [Date]	M:1	84	2,557	3044.05%	0	0		4,056	
Fact	M:1	90	327	0.69%	22			184	
'Fact' [BU Key] ==<-1 'BU' [BU Key]	M:1	26	164	0.34%	0	0		32	
'Fact' [Customer Key] ==<-1 'Customer' [Customer]	M:1	50	327	0.69%	21	1,804		112	
'Fact' [Product Key] ==<-1 'Product' [Product Key]	M:1	7	6	0.01%	1	6,577		8	
'Fact' [Scenario Key] ==<-1 'Scenario' [Scenario Key]	M:1	2	2	0.00%	0	0		8	
'Fact' [YearPeriod] ==<-1 'Date' [YearPeriod]	M:1	16	84	0.18%	0	0		24	
Grand Total	M:1	90	2,557	3044.05%	27			4,320	

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:

The **[answer choice]** table is missing records needed by the Fact table.

	▼
BU Key	
Customer	
Date	
Scenario	

There are **[answer choice]** blank values created by missing dimensional relationships.

	▼
22	
1,804	
6,577	
8,381	

Correct Answer:

The **[answer choice]** table is missing records needed by the Fact table.

	▼
BU Key	
Customer	
Date	
Scenario	

There are **[answer choice]** blank values created by missing dimensional relationships.

	▼
22	
1,804	
6,577	
8,381	