



DP-500^{Q&As}

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

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QUESTION 1

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.

one scatterplot
two scatterplots
three scatterplots

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

one marker symbol
two marker symbols
three marker symbols

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 2

HOTSPOT

You are creating a Power BI Desktop report.

You add a Python visual to the report page.

You plan to create a scatter chart to visualize the data.

You add Python code to the Python script editor.

You need to create the scatter chart.

How should you complete the Python code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



```
import matplotlib.axes as chart
matplotlib.projections
matplotlib.pyplot
matplotlib.widgets

dataset.plot(kind='scatter', x='Age', y='Weight', color='red')

chart.clf()
chart.plot()
chart.show()
chart.triplot()
```

Correct Answer:

```
import matplotlib.axes as chart
matplotlib.projections
matplotlib.pyplot
matplotlib.widgets

dataset.plot(kind='scatter', x='Age', y='Weight', color='red')

chart.clf()
chart.plot()
chart.show()
chart.triplot()
```

QUESTION 3



You have a Power BI report that contains a bar chart. The bar chart displays sales by country.

You need to ensure that a summary of the data shown on the bar chart is accessible by using a screen reader.

What should you configure on the bar chart?

- A. conditional formatting
- B. the layer order
- C. alt text
- D. the tab order

Correct Answer: C

QUESTION 4

You use the Vertipaq Analyzer to analyze tables in a dataset as shown in the Tables exhibit. (Click the Tables tab.)

Vertipaq Analyzer Metrics						
Tables	Columns	Relationships	Partitions	Summary		
Name	Cardinality	Table Size	Col Size	Data	Dictionary	Hier Size
Plan	627,876	22,823,464	21,147,552	6,697,272	10,293,184	4,157,096
Forecast Amount	101,606	22,823,464	7,400,920	1,475,640	5,112,384	812,896
Budget Amount	101,596	22,823,464	7,400,024	1,475,640	5,111,568	812,816
Row ID	627,876	22,823,464	4,185,992	1,674,344	120	2,511,528
ProductKey	628	22,823,464	842,296	818,016	19,208	5,072
Sales	858,789	20,968,092	18,674,660	12,182,384	2,587,004	3,905,272
Row ID	858,789	20,968,092	5,725,408	2,290,112	120	3,435,176
SalesAmount	36,554	20,968,092	2,960,560	1,245,904	1,422,176	292,480
TotalCost	9,711	20,968,092	1,924,272	1,238,488	608,056	77,728
Sales ID	2,000	20,968,092	1,431,192	1,374,064	41,080	16,048
Date	1,095	20,968,092	1,428,968	1,373,856	46,312	8,800

The table relationships for the dataset are shown in the Relationships exhibit. (Click the Relationships tab.)

Vertipaq Analyzer Metrics						
Tables	Columns	Relationships	Partitions	Summary		
Table / Relationship	Size	Max From Cardinality	Max To Cardinality	1:M Ratio %	Missing Keys	
Plan	1,675,912	627,876	858,789	136.78%	7	
Plan[ProductKey] ↔ 1 Product[ProductKey]	848	628	629	0.10%	0	
Plan[StoreKey] ↔ 1 Store[Store Key]	360	306	299	0.05%	7	
Plan[GeographyKey] ↔ 1 Geography[GeographyKey]	312	263	263	0.04%	0	
Plan[DateKey] ↔ 1 Month & Year Distinct[Date]	32	36	36	0.01%	0	
Sales	2,293,432	858,789	1,095	0.13%	858,793	
Sales[Date] ↔ 1 Calendar[Date]	1,760	1,095	1,095	0.13%	0	
Sales[GeographyKey] ↔ 1 Geography[GeographyKey]	312	263	263	0.03%	0	
Sales[PromotionKey] ↔ 1 Promotion[Promotion Key]	24	28	28	0.00%	0	
Sales[channelKey] ↔ 1 Channel[channelKey]	8	4	4	0.00%	0	
Sales[Row ID] ↔ 1 Plan Header Details[Row ID]	0	858,789	3	0.00%	858,786	

You need to reduce the model size by eliminating invalid relationships. Which column should you remove?



A. Sales[Sales Amount]

B. Sales[RowID]

C. Sales[Sales ID]

D. Plan[RowID]

Correct Answer: B

Sales[Row ID] has 858,786 missing keys and 858,789 Max From Cardinality. Note: The Max From Cardinality column defines the cost of the relationship which is the amount of time DAX needs to transfer the filters from the dimensions table to the fact table.

Reference: <https://blog.enterprisedna.co/vertipaq-analyzer-tutorial-relationships-referential-integrity/>

QUESTION 5

You have a Power BI tenant.

You plan to register the tenant in an Azure Purview account.

You need to ensure that you can scan the tenant by using Azure Purview.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. From the Microsoft 365 admin center, create a Microsoft 365 group.

B. From the Power BI Admin center, set Allow live connections to Enabled.

C. From the Power BI Admin center, set Allow service principals to use read-only Power BI admin APIs to Enabled.

D. From the Azure Active Directory admin center, create a security group.

E. From the Power BI Admin center, set Share content with external users to Enabled.

Correct Answer: CD

Scan same-tenant Power BI using Azure IR and Managed Identity in public network. Make sure Power BI and Microsoft Purview accounts are in the same tenant. Make sure Power BI tenant Id is entered correctly during the registration. From Azure portal, validate if Microsoft Purview account Network is set to public access. From Power BI tenant Admin Portal, make sure Power BI tenant is configured to allow public network.

(D) In Azure Active Directory tenant, create a security group. From Azure Active Directory tenant, make sure Microsoft Purview account MSI is member of the new security group. On the Power BI Tenant Admin portal, validate if Allow service principals to use read-only Power BI admin APIs is enabled for the new security group.

Associate the security group with Power BI tenant Log into the Power BI admin portal.

Select the Tenant settings page.

(C) Select Admin API settings > Allow service principals to use read-only Power BI admin APIs (Preview).



Select Specific security groups.

Select Admin API settings > Enhance admin APIs responses with detailed metadata > Enable the toggle to allow Microsoft Purview Data Map automatically discover the detailed metadata of Power BI datasets as part of its scans.

Reference: <https://docs.microsoft.com/en-us/azure/purview/register-scan-power-bi-tenant>

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