

- **Vendor:** Microsoft
- **Exam Code:** DP-500
- **Exam Name:** Designing and Implementing Enterprise-Scale Analytics Solutions Using Microsoft Azure and Microsoft Power BI
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Question: 21

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.

Answer 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

Answer:

Answer 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

Question: 22

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.

Answer Area

Running the code will create a [answer choice] in the output cell.

The legend for the resulting chart will list [answer choice] in the legend.

clustered bar chart
histogram
line chart
stacked bar chart

one item
two items
five items
seven items

Answer:

Answer Area

Running the code will create a [answer choice] in the output cell.

The legend for the resulting chart will list [answer choice] in the legend.

clustered bar chart
histogram
line chart
stacked bar chart

one item
two items
five items
seven items

Question: 23

You have a Power BI report that contains one visual.

You need to provide users with the ability to change the visual type without affecting the view for other users.

What should you do?

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- A. From Report setting, select Personalize visuals
- B. From Tabular Editor, create a new perspective.
- C. From the Bookmarks pane, select Focus mode, and then select Add.
- D. From Visual options in Report settings, select Use the modern visual header with updated styling options.

Answer: A

Question: 24

You have a Power BI report that contains the visual shown in the following exhibit.

Product	Sales
Amarilla	17,747,116.06
Carretera	13,815,307.89
Montana	15,390,801.88
Paseo	33,011,143.95
Velo	18,250,059.47
VTT	20,511,921.02
Total	118,726,350.26

You need to make the visual more accessible to users who have color vision deficiency. What should you do?

- A. Change the font color of values in the Sales column to white.
- B. Change the red background color to orange.
- C. Add icons to represent the sales status of each product.
- D. Add additional measures to the table values.

Answer: B

Question: 25

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.

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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.

Answer Area

```
import _____ as chart
```

- matplotlib.axes
- matplotlib.projections
- matplotlib.pyplot
- matplotlib.widgets

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

- chart.clf()
- chart.plot()
- chart.show()
- chart.tripplot()

Answer:

Answer Area

```
import _____ as chart
```

- matplotlib.axes
- matplotlib.projections
- matplotlib.pyplot
- matplotlib.widgets

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

- chart.clf()
- chart.plot()
- chart.show()
- chart.tripplot()

Question: 26

You have the following Python code in an Apache Spark notebook.

```
import matplotlib.pyplot as plt
import numpy as np
ys = 300 + np.random.randn(100)
x = [x for x in range(len(ys))]
plt.plot(x, ys, '-')
plt.fill_between(x, ys, 395, where=(ys > 395), facecolor='g', alpha=0.5)
plt.title("Chart Sample")
plt.show()
```

Which type of chart will the code produce?

- A. a stacked bar chart
- B. a pie chart
- C. a bar chart

D. an area chart

Answer: C

Question: 27

You use Azure Synapse Analytics and Apache Spark notebooks to You need to use PySpark to gain access to the visual libraries. Which Python libraries should you use?

- A. Seaborn only
- B. Matplotlib and Seaborn
- C. Matplotlib only
- D. Matplotlib and TensorFlow
- E. TensorFlow only
- F. Seaborn and TensorFlow

Answer: E

Question: 28

You are using a Python notebook in an Apache Spark pool in Azure Synapse Analytics. You need to present the data distribution statistics from a DataFrame in a tabular view. Which method should you invoke on the DataFrame?

- A. freqItems
- B. explain
- C. rollup
- D. summary

Answer: D

Question: 29

You have a kiosk that displays a Power BI report page. The report uses a dataset that uses Import storage mode. You need to ensure that the report page updates all the visuals every 30 minutes. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. EnablePowerBIembedded.
- B. Configure the data sources to use DirectQuery.
- C. Configure the data sources to use a streaming dataset
- D. SelectAuto page refresh.

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- E. Enable the XMIA endpoint.
- F. Add a Microsoft Power Automate visual to the report page.

Answer: AD

Question: 30

You have an Azure Synapse Analytics dedicated SQL pool.
You need to ensure that the SQL pool is scanned by Azure Purview. What should you do first?

- A. Register a data source.
- B. Search the data catalog.
- C. Create a data share connection.
- D. Create a data policy.

Answer: B

Question: 31

You have a Power BI workspace that contains one dataset and four reports that connect to the dataset. The dataset uses Import storage mode and contains the following data sources:

- A CSV file in an Azure Storage account
- An Azure Database for PostgreSQL database

You plan to use deployment pipelines to promote the content from development to test to production. There will be different data source locations for each stage. What should you include in the deployment pipeline to ensure that the appropriate data source locations are used during each stage?

- A. parameter rules
- B. selective deployment
- C. auto-binding across pipelines
- D. data source rules

Answer: B

Question: 32

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

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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.

Answer Area

Set the collaboration branch to:

- main
- publish
- dev123
- workspace_publish

Base the dev123 branch on:

- main
- publish
- dev123
- workspace_publish

Answer:

Answer Area

Set the collaboration branch to:

- main
- publish
- dev123
- workspace_publish

Base the dev123 branch on:

- main
- publish
- dev123
- workspace_publish

Question: 33

You need to provide users with a reproducible method to connect to a data source and transform the data by using an AI function. The solution must meet the following requirement

- Minimize development effort.
- Avoid including data in the file.

Which type of file should you create?

- A. PBIDS
- B. PBIX
- C. PBIT

Answer: A

Question: 34

You are planning a Power BI solution for a customer.

The customer will have 200 Power BI users. The customer identifies the following requirements:

- Ensure that all the users can create paginated reports.
- Ensure that the users can create reports containing AI visuals.
- Provide autoscaling of the CPU resources during heavy usage spikes.

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You need to recommend a Power BI solution for the customer.

The solution must minimize costs. What should you recommend?

- A. Power BI Premium per user
- B. a Power BI Premium per capacity
- C. Power BI Pro per user
- D. Power BI Report Server

Answer: A

Question: 35

HOTSPOT

You need to recommend an automated solution to monitor Power BI user activity. The solution must meet the following requirements:

- Security admins must identify when users export reports from Power BI within five days of a new sensitivity label being applied to the artifacts in Power BI.
- Power BI admins must identify updates or changes to the Power BI capacity.
- The principle of least privilege must be used.

Which log should you include in the recommendation for each group? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Security admins:	<input type="checkbox"/> the Azure Activity log <input type="checkbox"/> the Power BI activity log <input type="checkbox"/> the unified audit log in Microsoft 365
Power BI admins:	<input type="checkbox"/> the Azure Activity log <input type="checkbox"/> the Power BI activity log <input type="checkbox"/> the unified audit log in Microsoft 365

Answer:

Answer Area

Security admins:	<input type="checkbox"/> the Azure Activity log <input type="checkbox"/> the Power BI activity log <input type="checkbox"/> the unified audit log in Microsoft 365
Power BI admins:	<input type="checkbox"/> the Azure Activity log <input type="checkbox"/> the Power BI activity log <input type="checkbox"/> the unified audit log in Microsoft 365

Question: 36

You have a 2-GB Power BI dataset.

You need to ensure that you can redeploy the dataset by using Tabular Editor. The solution must minimize how long it will take to apply changes to the dataset from powerbi.com.

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

NOTE: Each correct selection is worth one point

- A. Enable service principal authentication for read-only admin APIs.
- B. Turn on Large dataset storage format.
- C. Connect the target workspace to an Azure Data Lake Storage Gen2 account.
- D. Enable XMLA read-write.

Answer: D

Question: 37

You have five Power BI reports that contain R script data sources and R visuals. You need to publish the reports to the Power BI service and configure a daily refresh of datasets. What should you include in the solution?

- A. a Power BI Embedded capacity
- B. an on-premises data gateway (standard mode)
- C. a workspace that connects to an Azure Data Lake Storage Gen2 account
- D. an on-premises data gateway (personal mode)

Answer: D

Question: 38

You have new security and governance protocols for Power BI reports and datasets. The new protocols must meet the following requirements.

- New reports can be embedded only in locations that require authentication.
- Live connections are permitted only for workspaces that use Premium capacity datasets.

Which three actions should you recommend performing in the Power BI Admin portal? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. From Tenant settings, disable Allow XMLA endpoints and Analyze in Excel with on-premises datasets.
- B. From the Premium per user settings, set XMLA Endpoint to Off.
- C. From Embed Codes, delete all the codes.
- D. From Capacity settings, set XMLA Endpoint to Read Write.
- E. From Tenant settings, set Publish to web to Disable.

Answer: A

Question: 39

You have an Azure Synapse Analytics serverless SQL pool. You need to catalog the serverless SQL pool by using Azure Purview.

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Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create a managed identity in Azure Active Directory (Azure AD).
- B. Assign the Storage Blob Data Reader role to the Azure Purview managed service identity (MSI) for the storage account associated to the Synapse Analytics workspace.
- C. Assign the Owner role to the Azure Purview managed service identity (MSI) for the Azure Purview resource group.
- D. Register a data source.
- E. Assign the Reader role to the Azure Purview managed service identity (MSI) for the Synapse Analytics workspace.

Answer: ACD

Question: 40

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.

Answer 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

Answer:

Answer 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

☒ 2

☐ 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: 41

DRAG DROP

You are configuring Azure Synapse Analytics pools to support the Azure Active Directory groups shown in the following table.

Name	Requirement
Group1	Analyze data to create and train machine learning models in Synapse Analytics.
Group2	Execute complex queries with multiple joins against relational data. Results will be exported by using PolyBase.
Group3	Query and load data from Apache Parquet files stored in Azure Data Lake Storage Gen2. Costs must be based on the amount of data processed.

Which type of pool should each group use? To answer, drag the appropriate pool types to the groups. Each pool type 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.

Pool Types	Answer Area
<div>Apache Spark pool</div> <div>Dedicated SQL pool</div> <div>Serverless SQL pool</div>	Group1: <div>Pool Type</div> Group2: <div>Pool Type</div> Group3: <div>Pool Type</div>

Answer:

Pool Types	Answer Area
<div>Apache Spark pool</div> <div>Dedicated SQL pool</div> <div>Serverless SQL pool</div>	Group1: <div>Serverless SQL pool</div> Group2: <div>Dedicated SQL pool</div> Group3: <div>Apache Spark pool</div>

B