

Actual exam question from Microsoft's DP-500

Question #: 1

Topic #: 1

[\[All DP-500 Questions\]](#)

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Overview -

Contoso, Ltd. is a company that sells enriched financial data to a variety of external customers.

Contoso has a main office in Los Angeles and two branch offices in New York and Seattle.

Existing Environment -

Data Infrastructure -

Contoso has a 50-TB data warehouse that uses an instance of SQL Server on Azure Virtual Machines.

The data warehouse populates an Azure Synapse Analytics workspace that is accessed by the external customers. Currently, the customers can access all the data.

Contoso has one Power BI workspace named FinData that contains a single dataset. The dataset contains financial data from around the world. The workspace is used by 10 internal users and one external customer. The dataset has the following two data sources: the data warehouse and the Synapse Analytics serverless SQL pool.

Users frequently query the Synapse Analytics workspace by using Transact-SQL.

User Problems -

Contoso identifies the following user issues:

Some users indicate that the visuals in Power BI reports are slow to render when making filter selections.

Users indicate that queries against the serverless SQL pool fail occasionally because the size of tempdb has been exceeded.

Users indicate that the data in Power BI reports is stale. You discover that the refresh process of the Power BI model occasionally times out.

Planned Changes -

Contoso plans to implement the following changes:

Into the existing Power BI dataset, integrate an external data source in JSON that is accessible by using the REST API.

Build a new dataset in the FinData workspace by using data from the Synapse Analytics dedicated SQL pool.

Provide all the customers with their own Power BI workspace to create their own reports. Each workspace will use the new dataset in the FinData workspace.

Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to identify the root cause of the data refresh issue.

What should you use?

- A. the Usage Metrics Report in powerbi.com
- B. Query Diagnostics in Power Query Editor
- C. Performance analyzer in Power BI Desktop

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Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

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

NOTE: Each correct selection is worth one point.

A. Synapse Studio

B. DAX Studio

C. Azure Data Studio

D. Performance analyzer in Power BI Desktop

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Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.  
Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.  
Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.  
You need to integrate the external data source to support the planned changes.  
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

#### Actions

#### Answer Area

Create an Apache Spark data source.

Merge columns.

Create a web data source.

Expand the attributes.

Publish the model.



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Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.  
Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.  
Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.  
You need to create Power BI reports that will display data based on the customers' subscription level.  
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

#### Actions

#### Answer Area

Add members to row-level security (RLS) roles.

Create row-level security (RLS) roles.

Create a perspective.

Enable bidirectional filtering.

Create a DAX expression.



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Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to recommend a solution to add new fields to the financial data Power BI dataset with data from the Microsoft SQL Server data warehouse.

What should you include in the recommendation?

- A. Azure Purview
- B. an XMLA endpoint
- C. Site-to-Site VPN
- D. the on-premises data gateway

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Implement subscription levels for the customers. Each subscription level will provide access to specific rows of financial data.

Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to recommend a solution to resolve the query issue of the serverless SQL pool. The solution must minimize impact on the users.

What should you in the recommendation?

- A. Update the statistics for the serverless SQL pool.
- B. Move the data from the serverless SQL pool to a dedicated Apache Spark pool.
- C. Execute the `sp_set_process_data_limit` stored procedure for the serverless SQL pool.
- D. Move the data from the serverless SQL pool to a dedicated SQL pool.

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Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to recommend a solution for the customer workspace to support the planned changes.

Which two configurations should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Publish the financial data to the web.
- B. Configure the FinData workspace to use a Power BI Premium capacity.
- C. Grant the Build permission for the financial data to each customer.
- D. Set Use datasets across workspaces to Enabled.

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#### HOTSPOT -

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Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to build a Transact-SQL query to implement the planned changes for the internal users.

How should you complete the Transact-SQL query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

```

DECLARE @model varbinary(max) = (
    SELECT native_model_object
    FROM ml_models
    WHERE model_name = 'rxLinMod'
    AND model_version = 'v1');
SELECT d.*, p.*
FROM (MODEL = @model, DATA = dbo.rx_linMod as lm)
    
```

EVALUATE  
PIVOT  
PREDICT  
SCORE

```

go (model_outcome float, trade_volume float, price_Pred float) as p;
    
```

AS  
CONTAINS  
FROM  
GROUP BY  
WITH

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Overview -

Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, IsActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to create the customized Power BI usage reporting. The Usage Metrics Report dataset has already been created. The solution must minimize development and administrative effort.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions**

**Answer Area**

From powerbi.com, create a new report from the Usage Metrics Report dataset in the Sales Analytics workspace.

From Power BI Desktop, open the **Usage Metrics Report** dataset in the Sales Analytics workspace.

Request access to the Power BI audit logs.

Add visuals to the report.

Add a report measure.

Publish the report to the Sales Analytics workspace.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 10

Topic #: 1

[\[All DP-500 Questions\]](#)

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Overview -

Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, IsActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
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SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

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Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

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.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 11

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

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Overview -

Existing environment -

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Litware has the following Azure resources:

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Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

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Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

Security Requirements -

Litware identifies the following security requirements for the analytics environment:

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Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to implement object-level security (OLS) in the Power BI dataset for the sales associates.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

**Actions**

**Answer Area**

From Power BI Desktop, publish the dataset to the Sales Analytics workspace.

From Power BI Desktop, add a table filter to the role.

From Power BI Desktop, create a role for the sales associates.

From Tabular Editor, set Object Level Security to **None** for the Customer[Email] column and save the changes.

From Tabular Editor, set Object Level Security to **None** for the Customer table and save the changes.

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 12

Topic #: 1

[\[All DP-500 Questions\]](#)

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Overview -

Existing environment -

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Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

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A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

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SQLDW contains the following additional tables.

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SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

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Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

Security Requirements -

Litware identifies the following security requirements for the analytics environment:

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Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

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Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

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.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 13

Topic #: 1

[\[All DP-500 Questions\]](#)

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Overview -

Existing environment -

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Azure Resources -

Litware has the following Azure resources:

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Dedicated SQL Pool -

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SQLDW contains the following additional tables.

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Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

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Litware identifies the following development process requirements:

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Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

How should you configure the Power BI dataset refresh for the dbo.SalesTransactions table?

- A. an incremental refresh of Product where the ModifiedDate value is during the last three days.
- B. an incremental refresh of dbo.SalesTransactions where the SalesDate value is during the last three days.
- C. a full refresh of all the tables
- D. an incremental refresh of dbo.SalesTransactions where the SalesDate value is during the last hour.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 14

Topic #: 1

[\[All DP-500 Questions\]](#)

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All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

What should you configure in the deployment pipeline?

- A. a selective deployment
- B. auto-binding
- C. a backward deployment
- D. a data source rule

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 15

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

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dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, IsActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

SQLDW contains the following additional tables.

Name	Relevant column	Description
MLModel	Model, Model_Name	The table contains a machine learning model named PredictPurchase that predicts the likelihood of customers purchasing a specific product based on their past purchases.
CustomersWithProductScore	CustomerID, CustomerEmail, ProductID, ProductName, Score	The Score column contains the results from calling the predictive model.

SQLDW contains a view named dbo.CustomerPurchases that creates a distinct list of values from dbo.Customer [customerID], dbo.Customer [CustomerEmail], dbo.Product [ProductID] and dbo.Product [ProductName].

The sales data in SQLDW is updated every 30 minutes. Records in dbo.SalesTransactions are updated in SQLDW up to three days after being created. The records do NOT change after three days.

Power BI -

Litware has a new Power BI tenant that contains an empty workspace named Sales Analytics.

All users have Power BI Premium per user licenses.

IT data analytics are workspace administrators. The IT data analysts will create datasets and reports.

A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

Provide historical reporting of sales by product and channel over time.

Allow sales managers to perform ad hoc sales reporting with minimal effort.

Perform market basket analysis to understand which products are commonly purchased in the same transaction.

Identify which customers should receive promotional emails based on their likelihood of purchasing promoted products.

Litware plans to monitor the adoption of Power BI reports over time. The company wants custom Power BI usage reporting that includes the percent change of users that view reports in the Sales Analytics workspace each month.

Security Requirements -

Litware identifies the following security requirements for the analytics environment:

All the users in the sales department and the marketing department must be able to see Power BI reports that contain market basket analysis and data about which customers are likely to purchase a product.

Customer contact data in SQLDW and the Power BI dataset must be labeled as Sensitive. Records must be kept of any users that use the sensitive data.

Sales associates must be prevented from seeing the CustomerEmail column in Power BI reports.

Sales managers must be prevented from modifying reports created by other users.

Development Process Requirements

Litware identifies the following development process requirements:

SQLDW and datalake1 will act as the development environment. Once feature development is complete, all entities in synapseworkspace1 will be promoted to a test workspace, and then to a production workspace.

Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to populate the CustomersWithProductScore table.

How should you complete the stored procedure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

```

DECLARE @model  = (
    
    
    
    

    SELECT model
    FROM MLModel
    WHERE model_name = 'PredictPurchase'
);
INSERT INTO CustomersWithProductScore (
    CustomerID
    , CustomerEmail
    , ProductID
    , ProductName
    , Score
)
SELECT d.CustomerID
    , d.CustomerEmail
    , d.ProductID
    , d.ProductName
    , p.score
FROM PREDICT (MODEL = @model, DATA =  AS d)

WITH (score FLOAT) AS p;

```

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 16

Topic #: 1

[\[All DP-500 Questions\]](#)

#### HOTSPOT -

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study -

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview -

Existing environment -

Litware, Inc. is a retail company that sells outdoor recreational goods and accessories. The company sells goods both online and its stores located in six countries.

Azure Resources -

Litware has the following Azure resources:

An Azure Synapse Analytics workspace named synapseworkspace1

An Azure Data Lake Storage Gen2 account named datalake1 that is associated with synapseworkspace1

A Synapse Analytics dedicated SQL pool named SQLDW

Dedicated SQL Pool -

SQLDW contains a dimensional model that contains the following tables.

Name	Relevant column	Description
dbo.Customer	CustomerKey, CustomerID, CustomerEmail	The table currently contains 250,000 rows. Each row identifies a unique customer.
dbo.Product	ProductKey, ProductID, ProductName, ProductCategory, IsActive	The table currently contains 2,500 rows. Each row identifies a unique product.
dbo.Date	Date, Month, Year	The table currently contains 3,653 rows. Each row identifies a unique date.
dbo.SalesTransactions	CustomerKey, ProductKey, SalesDate, SalesChannelKey, SalesAmount, QuantitySold	The table currently contains 75 million rows. Each row identifies the purchase of a single product in a sales transaction.
dbo.SalesChannel	SalesChannelKey, SalesChannel	The table currently contains two rows to identify whether a sale occurred online or in a store.

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Name	Relevant column	Description
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A single imported dataset will be created to support the company's sales analytics goals. The dataset will be refreshed every 30 minutes.

Requirements -

Analytics Goals -

Litware identifies the following analytics goals:

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Power BI content must be deployed to test and production by using deployment pipelines.

All SQL scripts must be stored in Azure Repos.

The IT data analysts prefer to build Power BI reports in Synapse Studio.

You need to create a measure to count orders for the market basket analysis.

How should you complete the DAX expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

BasketsWithProducts =

VAR CountBaskets =  
SUMX (SUMMARIZE ( Sales, Customer[CustomerKey] ), 1)

VAR BasketsWithAndProducts =

CALCULATE(  
CALCULATABLE(  
INTERSECT(  
KEEPFILTERS(

SUMMARIZE ( SalesTransactions, SalesTransactions[OrderNumber] ),  
REMOVEFILTERS ( 'Product' ),  
REMOVEFILTERS ( SalesTransactions[ProductKey] ),  
USERELATIONSHIP ( SalesTransactions[ProductKey], 'And Product' [And ProductKey] )  
)

VAR BasketsWithBothProducts =

CALCULATE ( [CountBaskets], KEEPFILTERS ( BasketsWithAndProducts ) )

VAR RemoveEmpty =

IF (

ISEMPTY ( CALCULATETABLE(  
CROSSJOIN(  
INTERSECT(  
KEEPFILTERS(

DISTINCT ( 'Product' [ProductKey] ),  
DISTINCT ( 'And Product' [And ProductKey] )  
)

),  
[BasketsWithBothProducts]

)  
RETURN  
RemoveEmpty



Actual exam question from Microsoft's DP-500

Question #: 17

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 18

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI workspace named Workspace1 that contains five dataflows.

You need to configure Workspace1 to store the dataflows in an Azure Data Lake Storage Gen2 account.

What should you do first?

- A. From the Power BI Admin portal, enable tenant-level storage.
- B. Disable load for all dataflow queries.
- C. Delete the dataflow queries.
- D. Change the Data source settings in the dataflow queries.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 19

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 20

Topic #: 1

[\[All DP-500 Questions\]](#)

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Turn off auto refresh when publishing the dataset changes to the Power BI service.
- B. In the dataset, change the fact table from an import table to a hybrid table.
- C. Enable the large dataset storage format for workspace.
- D. Create a dataset parameter to reduce the fact table row count in the development and test pipelines.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 21

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 22

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are attempting to configure certification for a Power BI dataset and discover that the certification setting for the dataset is unavailable.

What are two possible causes of the issue? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. The workspace is in shared capacity.
- B. You have insufficient permissions.
- C. Dataset certification is disabled for the Power BI tenant.
- D. The sensitivity level for the dataset is set to Highly Confidential.
- E. Row-level security (RLS) is missing from the dataset.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 23

Topic #: 1

[\[All DP-500 Questions\]](#)

---

Your company is migrating its current, custom-built reporting solution to Power BI.

The Power BI tenant must support the following scenarios:

40 reports that will be embedded in external websites. The websites control their own security. The reports will be consumed by 50 users monthly.

Forty-five users that require access to the workspaces and apps in the Power BI Admin portal. Ten of the users must publish and consume datasets that are larger than 1 GB.

Ten developers that require Text Analytics transformations and paginated reports for datasets. An additional 15 users will consume the reports.

You need to recommend a licensing solution for the company. The solution must minimize costs.

Which two Power BI license options should you include in the recommendation? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. 70 Premium per user
- B. one Premium
- C. 70 Pro
- D. one Embedded
- E. 35 Pro
- F. 35 Premium per user

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 24

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have two Power BI reports named Report1 and Report2.

Report1 connects to a shared dataset named Dataset1.

Report2 connects to a local dataset that has the same structure as Dataset1. Report2 contains several calculated tables and parameters.

You need to prepare Report2 to use Dataset1.

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

NOTE: Each correct selection is worth one point.

- A. Remove the data source permissions.
- B. Delete all the Power Query Editor objects.
- C. Modify the source of each query.
- D. Update all the parameter values.
- E. Delete all the calculated tables.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 25

Topic #: 1

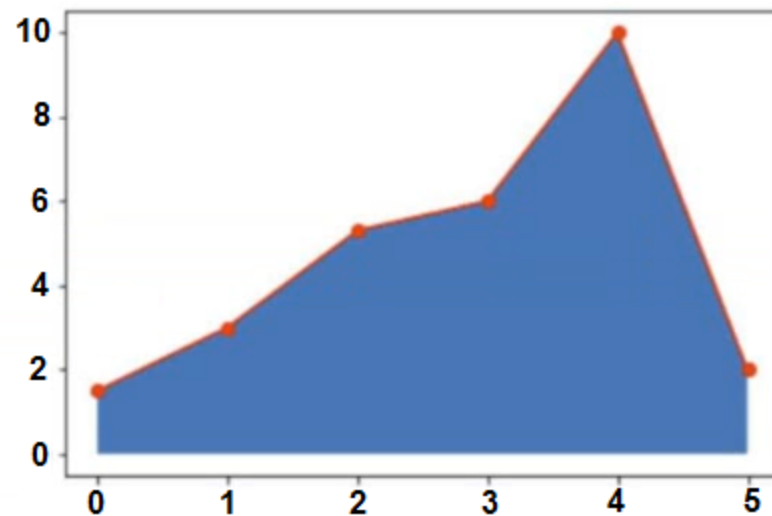
[\[All DP-500 Questions\]](#)

HOTSPOT -

You have an Azure Synapse notebook.

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

chart 1



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

NOTE: Each correct selection is worth one point.

### Answer 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)





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





plt.show()
```

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 26

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You use an Apache Spark notebook in Azure Synapse Analytics to filter and transform data.

You need to review statistics for a DataFrame that includes:

The column name -

The column type -

The number of distinct values -

Whether the column has missing values

Which function should you use?

- A. `displayHTML()`
- B. `display(df, summary=true)`
- C. `%%configure`
- D. `display(df)`
- E. `%%ismagic`

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 27

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You are using an Azure Synapse notebook to create a Python visual.

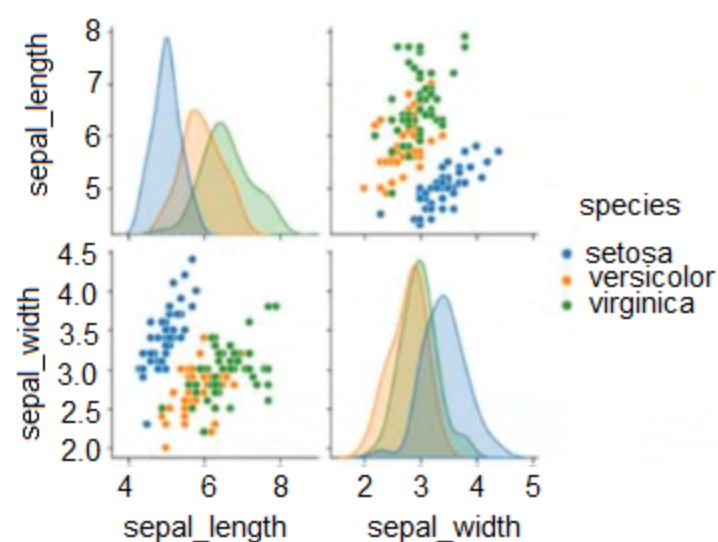
You run the following code cell to import a dataset named Iris.

```
iris = sns.load_dataset("iris")
iris.head()
```

A sample of the data is shown in the following table.

index	sepal_length	sepal_width	species
0	5.1	3.5	setosa
2	4.9	3	setosa
145	6.7	3	virginica
156	6.3	2.5	virginica

You need to create the visual shown in the exhibit. (Click the Exhibit tab.)



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

```
sns. [dropdown] (iris, hue= ' [dropdown] ', height=2.5)
```

boxplot  
implot  
pairplot  
replot

sepal\_length  
sepal\_width  
species

```
plt.show()
```

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 28

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are creating a Power BI single-page report.

Some users will navigate the report by using a keyboard, and some users will navigate the report by using a screen reader.

You need to ensure that the users can consume content on a report page in a logical order.

What should you configure on the report page?

- A. the X position
- B. the bookmark order
- C. the layer order
- D. the tab order

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 29

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You have an Azure Synapse workspace named Workspace1.

You need to use PySpark in a notebook to read data from a SQL pool as an Apache Spark DataFrame and display the top five rows.

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

NOTE: Each correct selection is worth one point.

### Answer Area

```
val spark_read =  (s "$sql_pool_name.dbo.PublicHoliday")
```

- spark.read.load
- spark.read.parquet
- spark.read.sqlanalytics

```
 (5, truncate = false)
```

- spark\_read.describe().show
- spark\_read.show
- spark\_read.take

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 30

Topic #: 1

[\[All DP-500 Questions\]](#)

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

Current Month Returns in USD

Store ID	Store	Returns	
6	Leo	\$6,108	●
5	Fama	\$6,097	●
13	Contoso	\$5,214	●
11	Pomum	\$4,968	●
7	VanArsdel	\$4,964	●
10	Pirum	\$4,644	●
2	Aliqui	\$4,479	●
1	Abbas	\$4,070	●
8	Natura	\$3,376	●
14	Victoria	\$2,317	●
4	Salvus	\$2,296	●
12	Quibus	\$2,208	●
3	Barba	\$1,601	●
<b>Total</b>		<b>\$52,342</b>	

The table contains conditional formatting that shows which stores are above, near, or below the monthly quota for returns.

You need to ensure that the table is accessible to consumers of reports who have color vision deficiency.

What should you do?

- A. Add alt text to explain the information that each color conveys.
- B. Change the icons to use a different shape for each color.
- C. Move the conditional formatting icons to a tooltip report.
- D. Remove the icons and use red, yellow, and green background colors instead.

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 31

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI dataset that has only the necessary fields visible for report development.

You need to ensure that end users see only 25 specific fields that they can use to personalize visuals.

What should you do?

- A. From Tabular Editor, create a new role.
- B. Configure object-level security (OLS).
- C. From Tabular Editor, create a new perspective.
- D. Hide all the fields in the dataset.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 32

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You are using Azure Synapse Studio to explore a dataset that contains data about taxi trips.

You need to create a chart that will show the total trip distance according to the number of passengers as shown in the following exhibit.

Run Undo Publish Query plan Connect to sqlpool1 Use database sqlpool1

```

1 SELECT PassengerCount,
2     SUM(TripDistanceMiles) as SumTripDistance,
3     AVG(TripDistanceMiles) as AvgTripDistance,
4 FROM dbo.NYCTaxiTripSmall
5 WHERE TripDistanceMiles > 0 AND PassengerCount > 0
6 GROUP BY PassengerCount
7 ORDER BY PassengerCount;
```

Results Messages

View Table Chart Save as image

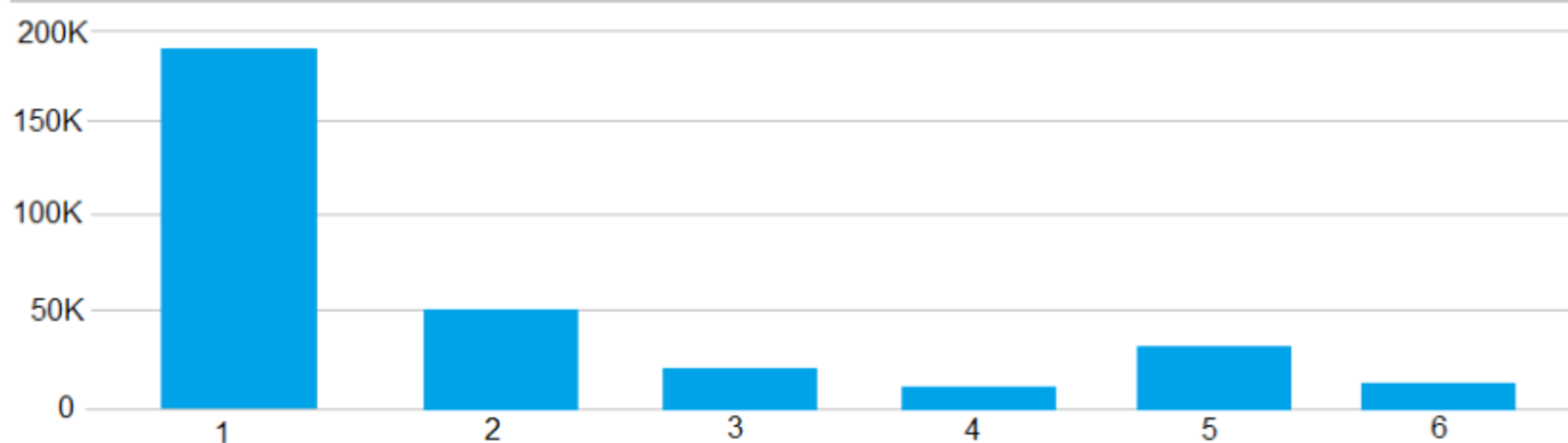


Chart type

Category column

Legend (series) columns

Legend position:

bottom - center

Legend (series) label

How should you configure the chart? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Category column:

- AvgTripDistance
- PassengerCount
- SumTripDistance
- TripDistanceMiles

Legend (series) column:

- AvgTripDistance
- PassengerCount
- SumTripDistance
- TripDistanceMiles

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 33

Topic #: 1

[\[All DP-500 Questions\]](#)

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
<b>Total</b>	<b>118,726,350.26</b>

You need to make the visual more accessible to users who have color vision deficiency.

What should you do?

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 34

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. Configure a unique marker for each series.
- B. Replace long text with abbreviations and acronyms.
- C. Move important information to a tooltip.
- D. Configure a distinct color for each series.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 35

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. an area chart
- C. a bar chart
- D. a pie chart

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 36

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are creating a Python visual in Power BI Desktop.

You need to retrieve the value of a column named Unit Price from a DataFrame.

How should you reference the Unit Price column in the Python code?

- A. `dataset['Unit Price']`
- B. `('Unit Price')`
- C. `pandas.DataFrame('Unit Price')`
- D. `data = [Unit Price]`

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 37

Topic #: 1

[\[All DP-500 Questions\]](#)

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

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 38

Topic #: 1

[\[All DP-500 Questions\]](#)

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	Bid. Filters MMR
'Date' [Date] ==<-1 'LocalDateTable_39c22ddb-27f3-4e6c-8a44-a3380850fcb4' [Date]	M:1	84	2,557	3044.05%	0	0	4,056	
<b>* Fact</b>	<b>M:1</b>	<b>90</b>	<b>327</b>	<b>0.69%</b>	<b>22</b>		<b>184</b>	
'Fact' [BU Key] ==<-1 'BU' [BU Key]	M:1	26	164	0.34%	0	0	32	
'Fact' [Customer Key] ==<-1 'Customer' [Customer]	M:1	90	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	
<b>Grand Total</b>	<b>M:1</b>	<b>90</b>	<b>2,557</b>	<b>3044.05%</b>	<b>27</b>		<b>4,320</b>	

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

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

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 39

Topic #: 1

[\[All DP-500 Questions\]](#)

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
<b>Plan</b>	<b>627,876</b>	<b>22,823,464</b>	<b>21,147,552</b>	<b>6,697,272</b>	<b>10,293,184</b>	<b>4,157,096</b>
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
<b>Sales</b>	<b>858,789</b>	<b>20,968,092</b>	<b>18,674,660</b>	<b>12,182,384</b>	<b>2,587,004</b>	<b>3,905,272</b>
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	
<b>Plan</b>	<b>1,675,912</b>	<b>627,876</b>	<b>858,789</b>	<b>136.78%</b>	<b>7</b>	
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	
<b>Sales</b>	<b>2,293,432</b>	<b>858,789</b>	<b>1,095</b>	<b>0.13%</b>	<b>858,793</b>	
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[Row ID]
- C. Sales[Sales ID]
- D. Plan[Row ID]

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 40

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are optimizing a Power BI data model by using DAX Studio.

You need to capture the query events generated by a Power BI Desktop report.

What should you use?

- A. the DMV list
- B. a Server Timings trace
- C. an All Queries trace
- D. a Query Plan trace

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 41

Topic #: 1

[\[All DP-500 Questions\]](#)

You have a sales report as shown in the following exhibit.



The sales report has the following characteristics:

The measures are optimized.

The dataset uses import storage mode.

Data points, hierarchies, and fields cannot be removed or filtered from the report page.

From powerbi.com, users experience slow load times when viewing the report.

You need to reduce how long it takes for the report to load without affecting the data displayed in the report.

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

NOTE: Each correct selection is worth one point.

- A. Change the report theme to monochromatic.
- B. Replace the single-value cards with a multi-row card.
- C. Replace the product category charts with a bar chart for sales and a hierarchy of Category and Sub Category on the axis.
- D. Replace all the filters on the Filters pane with visual slicers on the report page.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 42

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are building a Power BI dataset that will use two data sources.

The dataset has a query that uses a web data source. The web data source uses anonymous authentication.

You need to ensure that the query can be used by all the other queries in the dataset.

Which privacy level should you select for the data source?

- A. None
- B. Organizational
- C. Public
- D. Private

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 43

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You manage a Power BI dataset that queries a fact table named SalesDetails. SalesDetails contains three date columns named OrderDate, CreatedOnDate, and ModifiedDate.

You need to implement an incremental refresh of SalesDetails. The solution must ensure that OrderDate starts on or after the beginning of the prior year.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

### Actions

### Answer Area

Create RangeStart and RangeEndTime parameters.

Configure an incremental refresh to archive data that starts one year before the refresh date.

Add an applied step that filters OrderDate to the start of the prior year.

Configure an incremental refresh to archive data that starts two years before the refresh date.

Add an applied step that adds a custom date filter where OrderDate is between RangeStart and RangeEnd.



Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 44

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You plan to create a Power BI report that will use an OData feed as the data source. You will retrieve all the entities from two different collections by using the same service root.

The OData feed is still in development. The location of the feed will change once development is complete.

The report will be published before the OData feed development is complete.

You need to minimize development effort to change the data source once the location changes.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

### Answer Area

From Advanced Editor, get data from an OData feed source and use the parameter to populate the last part of the URL.

From Advanced Editor, reference the query and change the resource path in the URL.

Create a parameter that contains the service root URI.

From Advanced Editor, duplicate the query and change the resource path in the URL.

Get data from an OData feed source and use the parameter to populate the first part of the URL.



Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 45

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You have an Azure Synapse Analytics serverless SQL pool.

You need to return a list of files and the number of rows in each file.

How should you complete the Transact-SQL statement? To answer, drag the appropriate values to the 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.

### Values

APPROX\_COUNT\_DISTINCT

COUNT\_BIG

OPENDATASOURCE

OPENJSON

OPENQUERY

OPENROWSET

### Answer Area

SELECT

asa.filename() AS [filename]

,  (\*) AS [rows]

FROM

BULK 'parquet/production/year=2017/month=9/\*.parquet',

DATA\_SOURCE = 'DataLake1',

FORMAT= 'PARQUET'

) asa

GROUP BY [filename]

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 46

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You have an Azure Synapse Analytics serverless SQL pool and an Azure Data Lake Storage Gen2 account.

You need to query all the files in the 'csv/taxi/' folder and all its subfolders. All the files are in CSV format and have a header row.

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

NOTE: Each correct selection is worth one point.

### Answer Area

SELECT\*

FROM OPENROWSET (

	▼
BULK 'csv/taxi',	
BULK 'csv/taxi/**',	
BULK 'csv/taxi/*.csv',	
BULK 'csv/taxi/',	

DATA\_SOURCE = 'datalake',  
FORMAT = 'CSV', PARSER\_VERSION = '2.0',

	▼
FIRSTROW = 0	
FIRSTROW = 1	
FIRSTROW = -1	
FIRSTROW = 2	

)

WITH (

pickup\_datetime DATETIME2,  
passenger\_count INT,  
trip\_distance FLOAT,  
total\_amount FLOAT

) AS nyc;

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 47

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a group of data scientists who must create machine learning models and run periodic experiments on a large dataset.

You need to recommend an Azure Synapse Analytics pool for the data scientists. The solution must minimize costs.

Which type of pool should you recommend?

- A. a Data Explorer pool
- B. an Apache Spark pool
- C. a dedicated SQL pool
- D. a serverless SQL pool

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 48

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You have an Azure Data Lake Storage Gen 2 container that stores more than 300,000 files representing hourly telemetry data. The data is organized in folders by the year, month, and day according to when the telemetry was captured.

You have the following query in Power Query Editor.

```
let
    Source = AzureStorage.Blobs("https://tmppbie01.blob.core.windows.net/logs/"),
    Filtered = Table.SelectRows(Source, each Text.StartsWith([Name], "2019/12/")
        and [Extension] = ".csv"),
    Transformed = Table.AddColumn(Filtered, "Transformed", each TransformFiles([Content])),
    Limited = Table.SelectColumns(Transformed, "Transformed"),
    Expanded = Table.ExpandTableColumn(Limited, "Transformed", {"Date", "Name", "Activity"}),
    Final = Table.TransformColumnTypes(Expanded,
        {"Date", type date}, {"Name", type text}, {"Activity", type text})
in
    Final
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

### Answer Area

Statements	Yes	No
The query uses the hierarchical namespace of the storage account.	<input type="radio"/>	<input type="radio"/>
The query uses a custom function to load file data.	<input type="radio"/>	<input type="radio"/>
Changing the source to use <code>AzureStorage.DataLake</code> will reduce the load time of the query.	<input type="radio"/>	<input type="radio"/>

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 49

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You manage a dataset that contains the two data sources as shown in the following table.

Data source	Type of data	Privacy level
Azure SQL database	Sensitive company data	Private
Microsoft SharePoint folder	Non-sensitive company data	Private

When you attempt to refresh the dataset in powerbi.com, you receive the following error message: "[Unable to combine data] Add Columns is accessing data sources that have privacy levels which cannot be used together. Please rebuild this data combination."

You discover that the dataset contains queries that fold data from the SharePoint folder to the Azure SQL database.

You need to resolve the error. The solution must provide the highest privacy possible.

Which privacy level should you select for each data source? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Azure SQL database:

SharePoint folder:

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 50

Topic #: 1

[\[All DP-500 Questions\]](#)

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Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Power BI Desktop, you group the measures in a display folder.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 51

Topic #: 1

[\[All DP-500 Questions\]](#)

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Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Tabular Editor, you create a calculation group.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 52

Topic #: 1

[\[All DP-500 Questions\]](#)

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Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power BI dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From DAX Studio, you write a query that uses grouping sets.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 53

Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend defining an external table for the Parquet files and updating the query to use the table.

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 54

Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

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The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend using OPENROWSET WITH to explicitly specify the maximum length for businessName and surveyName.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 55

Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend defining a data source and view for the Parquet files. You recommend updating the query to use the view.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 56

Topic #: 1

[\[All DP-500 Questions\]](#)

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.

### 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()
- shart.triplot()

Show Suggested Answer



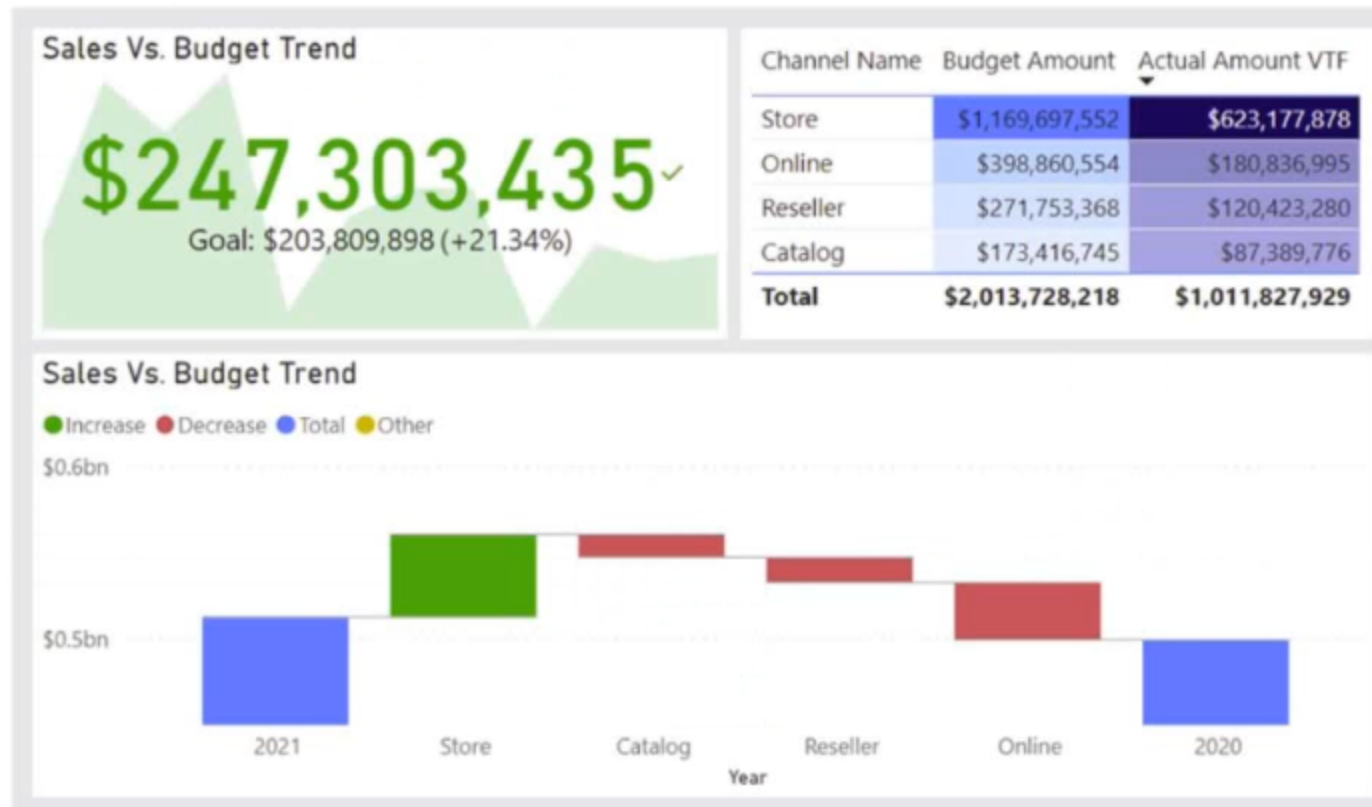
Actual exam question from Microsoft's DP-500

Question #: 57

Topic #: 1

[\[All DP-500 Questions\]](#)

You are configuring a Power BI report for accessibility as shown in the following table.



You need to change the default colors of all three visuals to make the report more accessible to users who have color vision deficiency.

Which two settings should you configure in the Customize theme window? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Theme colors
- B. Divergent colors
- C. Sentiment colors
- D. First-level elements colors

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 58

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You use Azure Synapse Analytics and Apache Spark notebooks to explore native visuals.

You need to use PySpark to gain access to the visual libraries.

Which Python libraries should you use?

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 59

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You are using DAX Studio to query an XMLA endpoint.

You need to identify the duplicate values in a column named Email in a table named Subscription.

How should you complete the DAX expression? To answer, drag the appropriate values to the 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.

### Values

### Answer Area

CALCULATE

CONTAINS

CURRENTGROUP

EVALUATE

ROLLUP

SELECTEDVALUE

SUMMARIZE

```
(  
  FILTER(  
    GROUPBY(Subscription,  
      Subscription[Email],  
      "Rows",  
      COUNTX( [ ] (), [Email])  
    )  
    [Rows] > 1)  
)
```

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 60

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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?

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

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 61

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. Configure the data sources to use DirectQuery.
- B. Select Auto page refresh.
- C. Enable Power BI embedded.
- D. Enable the XMLA endpoint.
- E. Add a Microsoft Power Automate visual to the report page.
- F. Configure the data sources to use a streaming dataset.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 62

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. rollup
- B. freqItems
- C. explain
- D. describe

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 63

Topic #: 1

[\[All DP-500 Questions\]](#)

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.

- clustered bar chart
- histogram
- line chart
- stacked bar chart

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

- one item
- two items
- five items
- seven items

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 64

Topic #: 1

[\[All DP-500 Questions\]](#)

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 maker symbols

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 65

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You use Advanced Editor in Power Query Editor to edit a query that references two tables named Sales and Commission.

A sample of the data in the Sales table is shown in the following table.

OrderID	SalesPerson	Amount
101	Tom	199.99
103	Eileen	279.99
108	Enrique	333.42

A sample of the data in the Commission table is shown in the following table.

Person	Commission
Tom	0.04
Eileen	0.05

You need to merge the tables by using Power Query Editor without losing any rows in the Sales table.

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

NOTE: Each correct selection is worth one point.

### Answer Area

Combined = Table.  (Sales, "SalesPerson", Commission, ) ,  
"Name", JoinKind.

: Combine, InsertRows, Join, TransformRow

: LeftAnti, LeftOuter, RightAnti, RightOuter

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 66

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI dataset named Dataset1 that uses DirectQuery against an Azure SQL database named DB1.

DB1 is a transactional database in the third normal form.

You need to recommend a solution to minimize how long it takes to execute the query. The solution must maintain the current functionality.

What should you include in the recommendation?

- A. Remove the relationships from Dataset1.
- B. Normalize the tables in DB1.
- C. Create calculated columns in Dataset1.
- D. Denormalize the tables in DB1.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 67

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a file named File1.txt that has the following characteristics:

A header row -

Tab delimited values -

UNIX-style line endings -

You need to read File1.txt by using an Azure Synapse Analytics serverless SQL pool.

Which query should you execute?

A. SELECT\*  
FROM OPENROWSET(  
BULK 'file1.txt',  
DATA\_SOURCE = 'Sql1',  
FORMAT = 'CSV', PARSER\_VERSION = '2.0',  
FIELDTERMINATOR = '\t',  
ROWTERMINATOR = '0x0a',

FIRSTROW= 2 -  
)

B. SELECT\*  
FROM OPENROWSET(  
BULK 'file1.txt',  
DATA\_SOURCE = 'Sql1',  
FORMAT = 'CSV', PARSER\_VERSION = '2.0',  
FIELDTERMINATOR = ',',  
ROWTERMINATOR = '\n',

FIRSTROW= 2 -  
)

C. SELECT\*  
FROM OPENROWSET(  
BULK 'file1.txt',  
DATA\_SOURCE = 'Sql1',  
FORMAT = 'CSV', PARSER\_VERSION = '2.0',  
FIELDTERMINATOR = ',',  
ROWTERMINATOR = '0x0a',

FIRSTROW= 2 -  
)

D. SELECT\*  
FROM OPENROWSET(  
BULK 'file1.txt',  
DATA\_SOURCE = 'Sql1',  
FORMAT = 'CSV', PARSER\_VERSION = '2.0',  
FIELDTERMINATOR = '\t',  
ROWTERMINATOR = '0x0a',

FIRSTROW= 1 -  
)

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 68

Topic #: 1

[\[All DP-500 Questions\]](#)

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.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 69

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are creating an external table by using an Apache Spark pool in Azure Synapse Analytics. The table will contain more than 20 million rows partitioned by date. The table will be shared with the SQL engines.

You need to minimize how long it takes for a serverless SQL pool to execute a query data against the table.

In which file format should you recommend storing the table data?

- A. CSV
- B. Delta
- C. JSON
- D. Apache Parquet

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 70

Topic #: 1

[\[All DP-500 Questions\]](#)

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

The screenshot shows the Power Query Editor interface. The main window displays a table with the following data:

	% Exclusive Duration (%)	Exclusive Duration	Resource	Data Source Query
8	6.97%	0.00:00:00.0953651	I0nom50i5u.database.windows.net:Co	8 distinct, 6 unique select @@version + 'EngineEdition:' + cast (SERVERPROPERTY('Engine... null
9	0.28%	0.00:00:00.0038790	I0nom50i5u.database.windows.net:Co	null
10	0.08%	0.00:00:00.0010975	I0nom50i5u.database.windows.net:Co	select [TABLE_CATALOG], t [TABLE_SCHEMA], t [TABLE_NAME], t [TA... from [INFORMATION_SCHEMA].[TABLES] t join sys.schemas s on s.same = t [TABLE_SCHEMA] join sys.objects tv on tv.name = t. [TABLE_NAME] and tv.schema_id = s.sc left outer join (select null major_id, null minor_id, null class, null name
12	1.05%	0.00:00:00.0143159	I0nom50i5u.database.windows.net:Co	null
13	0.00%	0.00:00:00.0000225	I0nom50i5u.database.windows.net:Co	null

The right-hand pane shows the Query Settings for 'Diagnostics\_Detailed\_2022-01-31\_12:58'. The query text is:

```
= Table.TransformColumnTypes(Source,{{"Id", type number}, {"Query", type text}, {"Step", type text}, {"Category", ...
```

The applied steps are:

- Source
- Changed Type

What can you identify from the diagnostics query?

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

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 71

Topic #: 1

[\[All DP-500 Questions\]](#)

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

Apache Spark pool

Group1:

Dedicated SQL pool

Group2:

Serverless SQL pool

Group3:

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 72

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You have a Power BI dataset. The dataset contains data that is updated frequently.

You need to improve the performance of the dataset by using incremental refreshes.

Which four actions should you perform in sequence to enable the incremental refreshes? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

### Answer Area

Define the incremental refresh policy for the table.

Enable query caching.

Publish the model to the Power BI service.

Create `RangeStart` and `RangeEnd` parameters.

Use the Power BI REST API to post a message to `/refreshes`.

Apply a custom Date/Time filter to the data.



Show Suggested Answer







Actual exam question from Microsoft's DP-500

Question #: 73

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 74

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI workspace named Workspace1 in a Premium capacity. Workspace1 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. Change License mode to Premium per user.
- B. Turn on Large dataset storage format.
- C. Connect Workspace1 to an Azure Data Lake Storage Gen2 account.
- D. Change the location of the Premium capacity.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 75

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You have a Power BI dataset that contains the following measures:

Budget -

Actuals -

Forecast -

You create a report that contains 10 visuals.

You need provide users with the ability to use a slicer to switch between the measures in two visuals only.

You create a dedicated measure named CG Measure Switch.

How should you complete the DAX expression for the Actuals measure? To answer, drag the appropriate values to the 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.

### Values

### Answer Area

ISSELECTEDMEASURE ()

IF (

= "CG Measure Switch", [Actuals],

)

SELECTEDMEASURENAME  
( )

SELECTEDMEASURE ( )

SELECTEDVALUE ( )

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 76

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You are configuring an aggregation table as shown in the following exhibit.

### Manage aggregations

Aggregations accelerate query performance to unlock big-data sets. [Learn more](#)

Aggregation table	Precedence ⓘ			
FactSales(Agg)	0			
ProductKey	Select Summarizatio...			
PromotionKey	Select Summarizatio...			
SalesAmount	Select Summarizatio...			
SalesQuantity	Select Summarizatio...			
StoreKey	Select Summarizatio...			
TotalCost	Select Summarizatio...			

The detail table is named FactSales and the aggregation table is named FactSales(Agg).

You need to aggregate SalesAmount for each store.

Which type of summarization should you use for SalesAmount and StoreKey? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Summarization for SalesAmount:

	▼
Count	
GroupBy	
Max	
Sum	

Summarization for StoreKey:

	▼
Count	
GroupBy	
Max	
Sum	

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 77

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI dataset that uses DirectQuery against an Azure SQL database.

Multiple reports use the dataset.

A database administrator reports that too many queries are being sent from Power BI to the database.

You need to reduce the number of queries sent to the database. The solution must meet the following requirements:

DirectQuery must continue to be used.

Visual interactions in all the reports must remain as they are configured currently.

Consumers of the reports must only be allowed to apply filters from the Filter pane.

Which two settings should you select? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Add a single Apply button to the filter pane to apply changes at once
- B. Add Apply buttons to all basic filters to apply changes when you're ready
- C. Disabling cross highlighting/filtering by default
- D. Ignore the Privacy Levels and potentially improve performance
- E. Add an Apply button to each slicer to apply changes when you're ready

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 78

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You have a Power BI dataset that contains two tables named Table1 and Table2. The dataset is used by one report.

You need to prevent project managers from accessing the data in two columns in Table1 named Budget and Forecast.

Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

### Answer Area

For Table1, set the permissions for the Project Manager role to **None**.

For the Budget and Forecast columns, set the permissions to **None**.

From Power BI Desktop, create a role named Project Managers.

From Power BI Desktop, add a DAX filter to the Project Managers role.

Open **DAX Studio**.

Open **Tabular Editor**.

For Table1, set the permissions for the Project Manager role to **Read**.



Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 79

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI data model.

You need to refresh the data from the source every 15 minutes.

What should you do first?

- A. Configure a scheduled refresh.
- B. Change the storage mode of the dataset.
- C. Enable the XMLA endpoint.
- D. Define an incremental refresh policy.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 80

Topic #: 1

[\[All DP-500 Questions\]](#)

You have a dataset that contains a table named UserPermissions. UserPermissions contains the following data.

User	Region
CONTOSO\User1	1
CONTOSO\User2	2
CONTOSO\User3	1
CONTOSO\User4	3
CONTOSO\User4	5

You plan to create a security role named User Security for the dataset.

You need to filter the dataset based on the current users.

What should you include in the DAX expression?

- A. [UserPermissions] = USERPRINCIPALNAME()
- B. [User] = USERPRINCIPALNAME()
- C. [User] = USEROBJECTID()
- D. [UserPermissions] = USERNAME()
- E. [User] = USERNAME()

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 81

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have an Azure Synapse Analytics serverless SQL pool.

You need to catalog the serverless SQL pool by using Azure Purview.

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 Reader role to the Azure Purview managed service identity (MSI) for the Synapse Analytics workspace.
- D. Assign the Owner role to the Azure Purview managed service identity (MSI) for the Azure Purview resource group.
- E. Register a data source.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 82

Topic #: 1

[\[All DP-500 Questions\]](#)

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:

Power BI admins:

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 83

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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 source:

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

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 84

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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.

You need to recommend a Power BI solution for the customer. The solution must minimize costs.

What should you recommend?

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 85

Topic #: 1

[\[All DP-500 Questions\]](#)

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 resources.

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 86

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 87

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. Connect the target workspace to an Azure Data Lake Storage Gen2 account.
- C. Turn on Large dataset storage format.
- D. Enable XMLA read-write.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 88

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer







Actual exam question from Microsoft's DP-500

Question #: 89

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. PBIT

B. PBIDS

C. PBIX

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 90

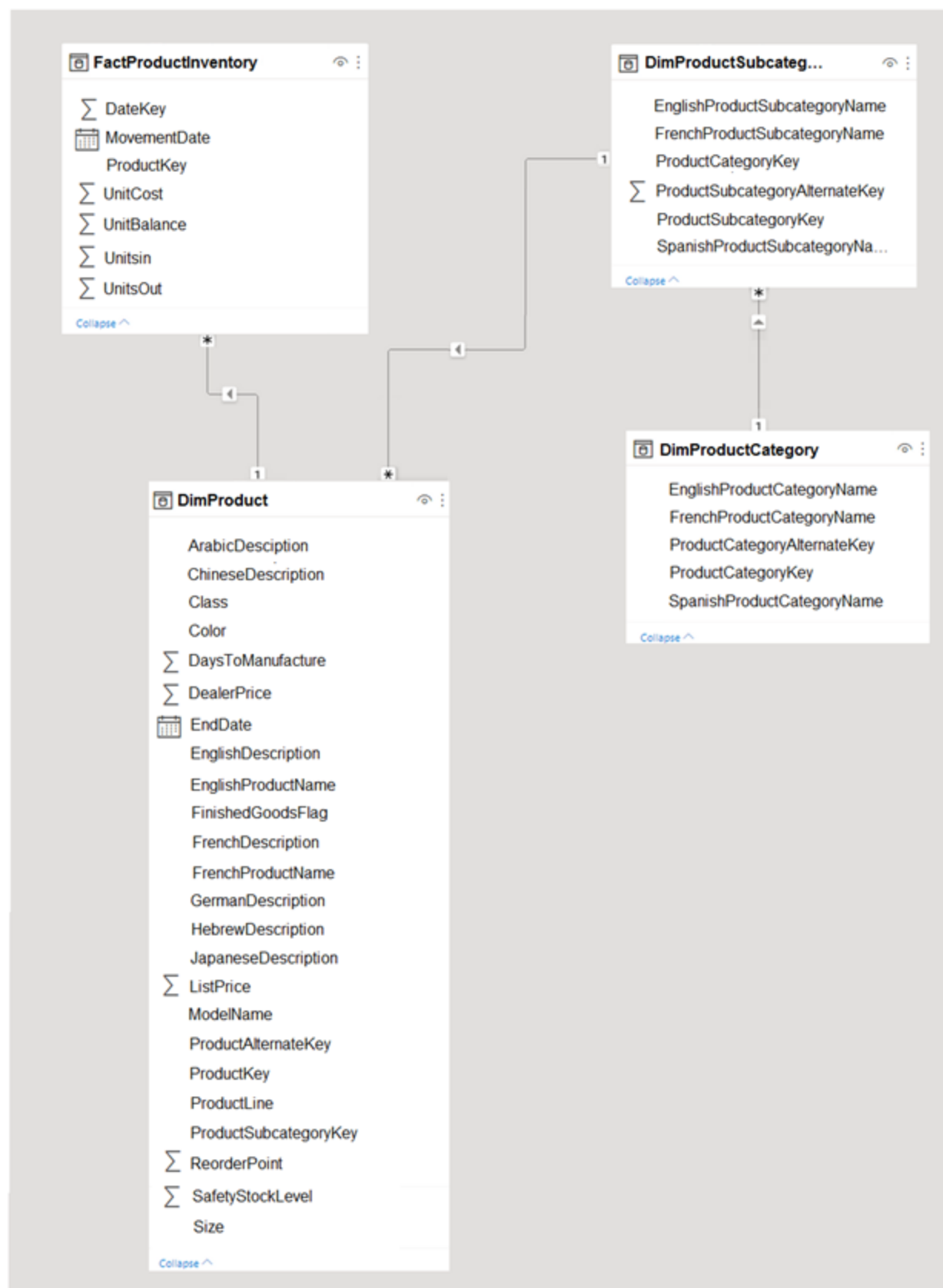
Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend moving all the measures to a calculation group.

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 91

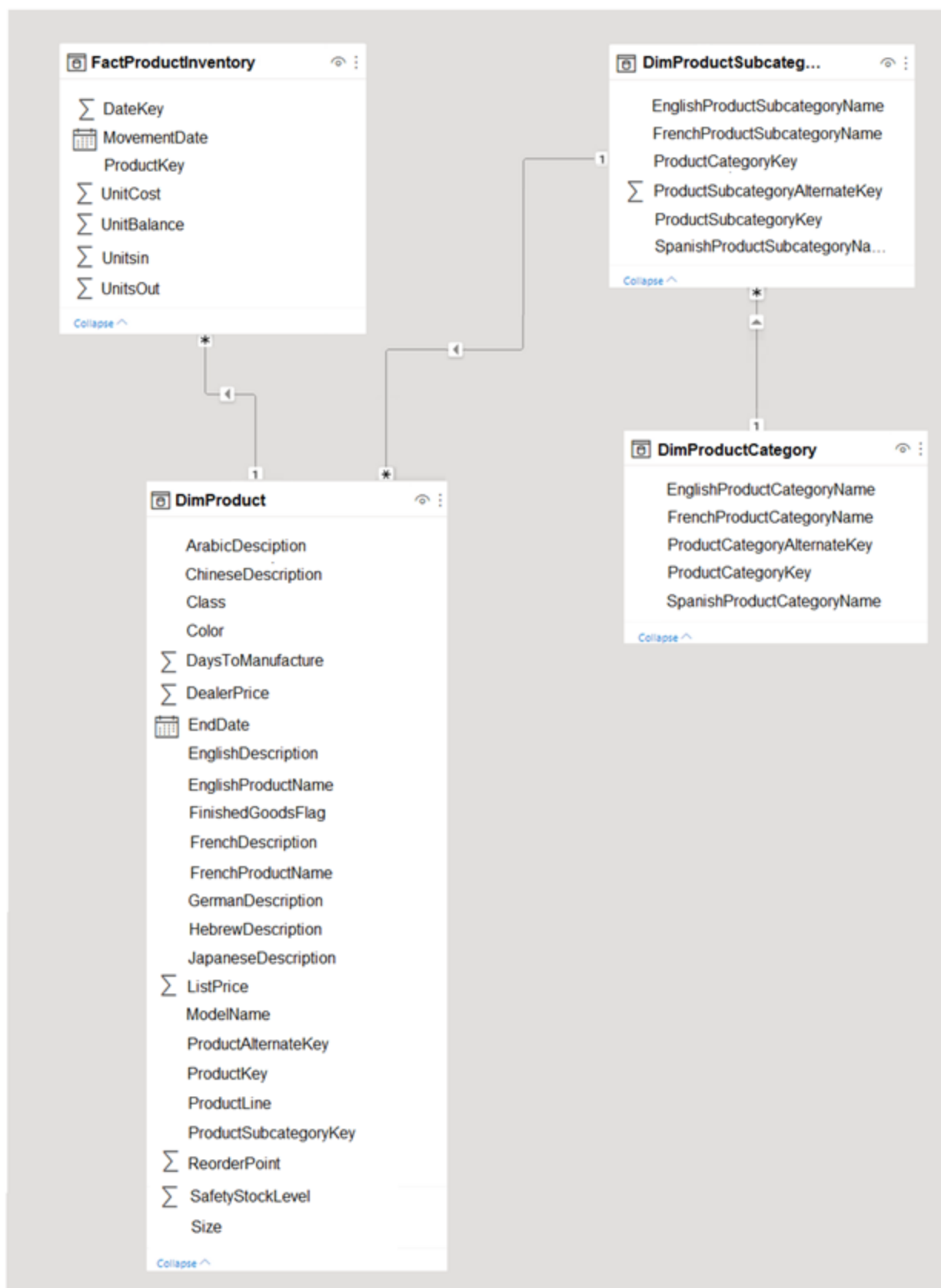
Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend creating a perspective that contains the commonly used fields.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 92

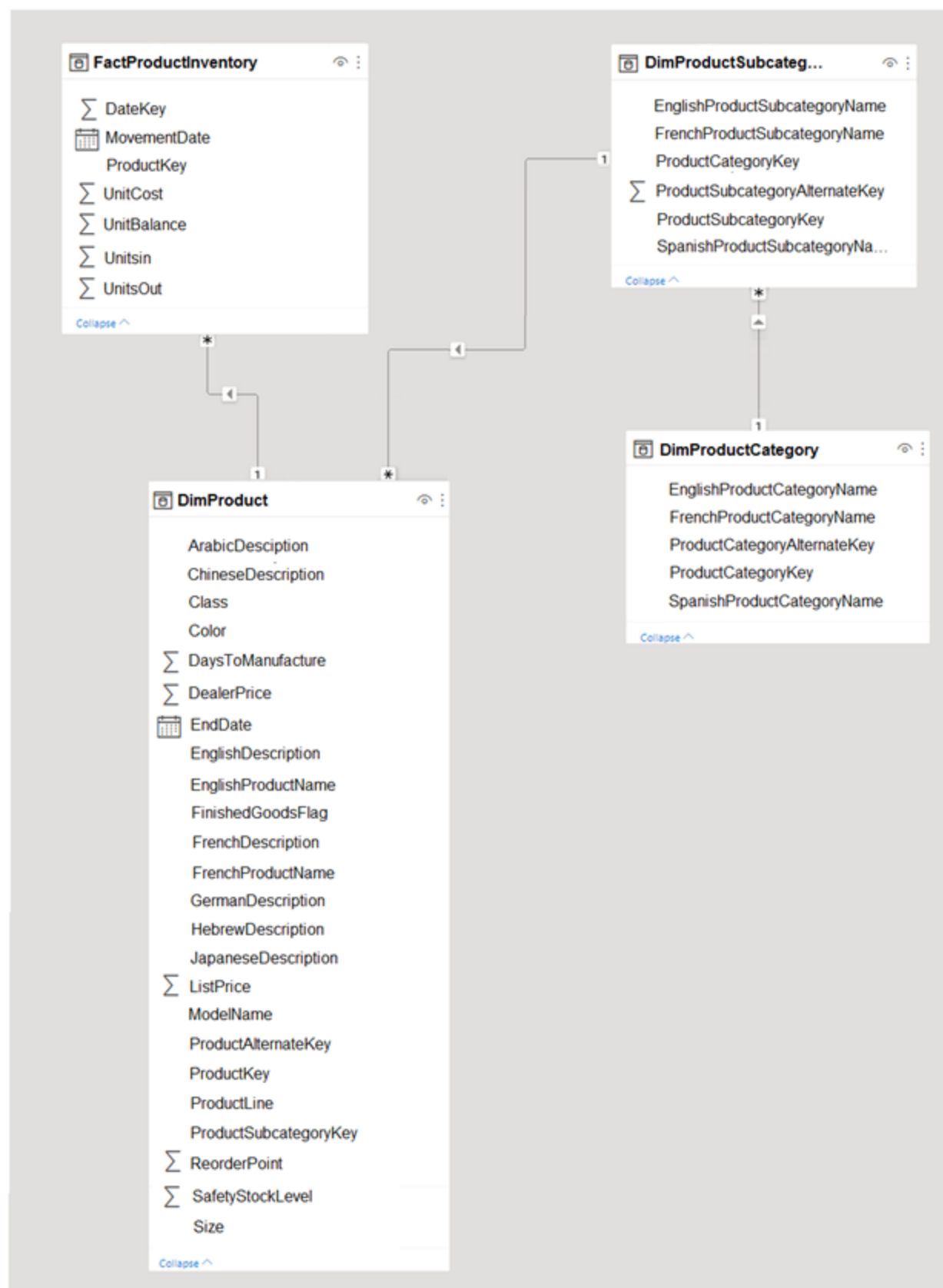
Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend denormalizing the data model.

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 93

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You have a shared dataset in Power BI named Dataset1.

You have an on-premises Microsoft SQL Server database named DB1.

You need to ensure that Dataset1 refreshes data from DB1.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

### Answer Area

Install the on-premises data gateway (standard mode).

Create a virtual network data gateway.

Install the on-premises data gateway (personal mode).

Configure a private endpoint.

From powerbi.com, add a data source to the gateway clusters.

From powerbi.com, configure Dataset1 to use a data gateway.



Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 94

Topic #: 1

[\[All DP-500 Questions\]](#)

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. From Capacity settings in the Power BI Admin portal, reduce the Max Intermediate Row Set Count setting.
- B. Configure the dataset to use a composite model that has a DirectQuery connection to the fact table.
- C. Enable the large dataset storage format for workspace.
- D. From Capacity settings in the Power BI Admin portal, increase the Max Intermediate Row Set Count setting.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 95

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are using GitHub as a source control solution for an Azure Synapse Studio workspace.

You need to modify the source control solution to use an Azure DevOps Git repository.

What should you do first?

- A. Disconnect from the GitHub repository.
- B. Create a new pull request.
- C. Change the workspace to live mode.
- D. Change the active branch.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 96

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI tenant that contains 10 workspaces.

You need to create dataflows in three of the workspaces. The solution must ensure that data engineers can access the resulting data by using Azure Data Factory.

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

NOTE: Each correct selection is worth one point.

- A. Create and save the dataflows to the internal storage of Power BI.
- B. Add the managed identity for Data Factory as a member of the workspaces.
- C. Associate the Power BI tenant to an Azure Data Lake Storage account.
- D. Create and save the dataflows to an Azure Data Lake Storage account.

Show Suggested Answer







Actual exam question from Microsoft's DP-500

Question #: 97

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are implementing a reporting solution that has the following requirements:

Reports for external customers must support 500 concurrent requests. The data for these reports is approximately 7 GB and is stored in Azure Synapse Analytics.

Reports for the security team use data that must have local security rules applied at the database level to restrict access. The data being reviewed is 2 GB.

Which storage mode provides the best response time for each group of users?

- A. Import for the external customers and DirectQuery for the security team.
- B. DirectQuery for the external customers and import for the security team.
- C. DirectQuery for the external customers and DirectQuery for the security team.
- D. Import for the external customers and import for the security team.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 98

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP -

You have a Power BI dataset that contains the following measures:

Budget -

Actuals -

Forecast -

You create a report that contains 10 visuals.

You need to provide users with the ability to use a slicer to switch between the measures in two visuals only.

You create a measure named CG Measure Switch.

How should you complete the DAX expression for the Actuals measure? To answer, drag the appropriate values to the 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.

**Values**

**Answer Area**

ISSELECTEDMEASURE()

SELECTEDMEASURENAME() IF(  = "CG Measure Switch", [Actuals],

SELECTEDMEASURE()  )

SELECTEDVALUE()

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 99

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You discover a poorly performing measure in a Power BI data model.

You need to review the query plan to analyze the amount of time spent in the storage engine and the formula engine.

What should you use?

- A. Tabular Editor
- B. Vertipaq Analyzer
- C. DAX Studio
- D. Performance analyzer in Power BI Desktop

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 100

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You plan to modify a Power BI dataset.

You open the Impact analysis panel for the dataset and select Notify contacts.

Which contacts will be notified when you use the Notify contacts feature?

- A. the Power BI admins
- B. the workspace admins of any workspace that uses the dataset
- C. all the workspace members of any workspace that uses the dataset
- D. any users that accessed a report that uses the dataset within the last 30 days

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 101

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. rollup
- B. cov
- C. explain
- D. describe

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 102

Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this question, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are using an Azure Synapse Analytics serverless SQL pool to query a collection of Apache Parquet files by using automatic schema inference. The files contain more than 40 million rows of UTF-8-encoded business names, survey names, and participant counts. The database is configured to use the default collation.

The queries use OPENROWSET and infer the schema shown in the following table.

name	system_type_name	max_length
businessName	varchar(8000)	8000
surveyName	varchar(8000)	8000
participants	int	4

You need to recommend changes to the queries to reduce I/O reads and tempdb usage.

Solution: You recommend using OPENROWSET WITH to explicitly define the collation for businessName and surveyName as Latin1\_General\_100\_BIN2\_UTF8.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 103

Topic #: 1

[\[All DP-500 Questions\]](#)

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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 Data Frame in a tabular view.

Which method should you invoke on the Data Frame?

- A. sample
- B. describe
- C. freqItems
- D. explain

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 104

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Request the authors of the deployment pipeline datasets to reduce the number of datasets republished during development.
- B. In the dataset, delete the fact table.
- C. Configure the dataset to use a composite model that has a DirectQuery connection to the fact table.
- D. From Capacity settings in the Power BI Admin portal, reduce the Max Intermediate Row Set Count setting.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 105

Topic #: 1

[\[All DP-500 Questions\]](#)

HOTSPOT -

You are building a Power BI dataset that contains a table named Calendar. Calendar contains the following calculated column.

```
pfFlag = IF('Calendar'[Date] < TODAY(), "Past", "Future")
```

You need to create a measure that will perform a fiscal prior year-to-date calculation that meets the following requirements:

Returns the fiscal prior year-to-date value for [Sales Amount]

Uses a fiscal year end of June 30

Produces no result for dates in the future

How should you complete the DAX expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area:**

```
PYTD =  
CALCULATE (  
  [Sales Amount],  
  (   
    CALCULATETABLE  
    CROSSJOIN  
    SUMMARIZECOLUMNS  
    UNION  
    ( DATESYTD ( 'Calendar'[Date], "6/30/2022" ) ),  
    DATEADD  
    FIRSTDATE  
    PARALLELPERIOD  
    SAMEPERIODLASTYEAR  
    'Calendar'[pfFlag] =  
    "Future"  
    NOW()  
    "Past"  
    TODAY()  
  )  
)
```

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 106

Topic #: 1

[\[All DP-500 Questions\]](#)

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Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a Power Bi dataset named Dataset1.

In Dataset1, you currently have 50 measures that use the same time intelligence logic.

You need to reduce the number of measures, while maintaining the current functionality.

Solution: From Power BI Desktop, you create a hierarchy.

Does this meet the goal?

A. Yes

B. No

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 107

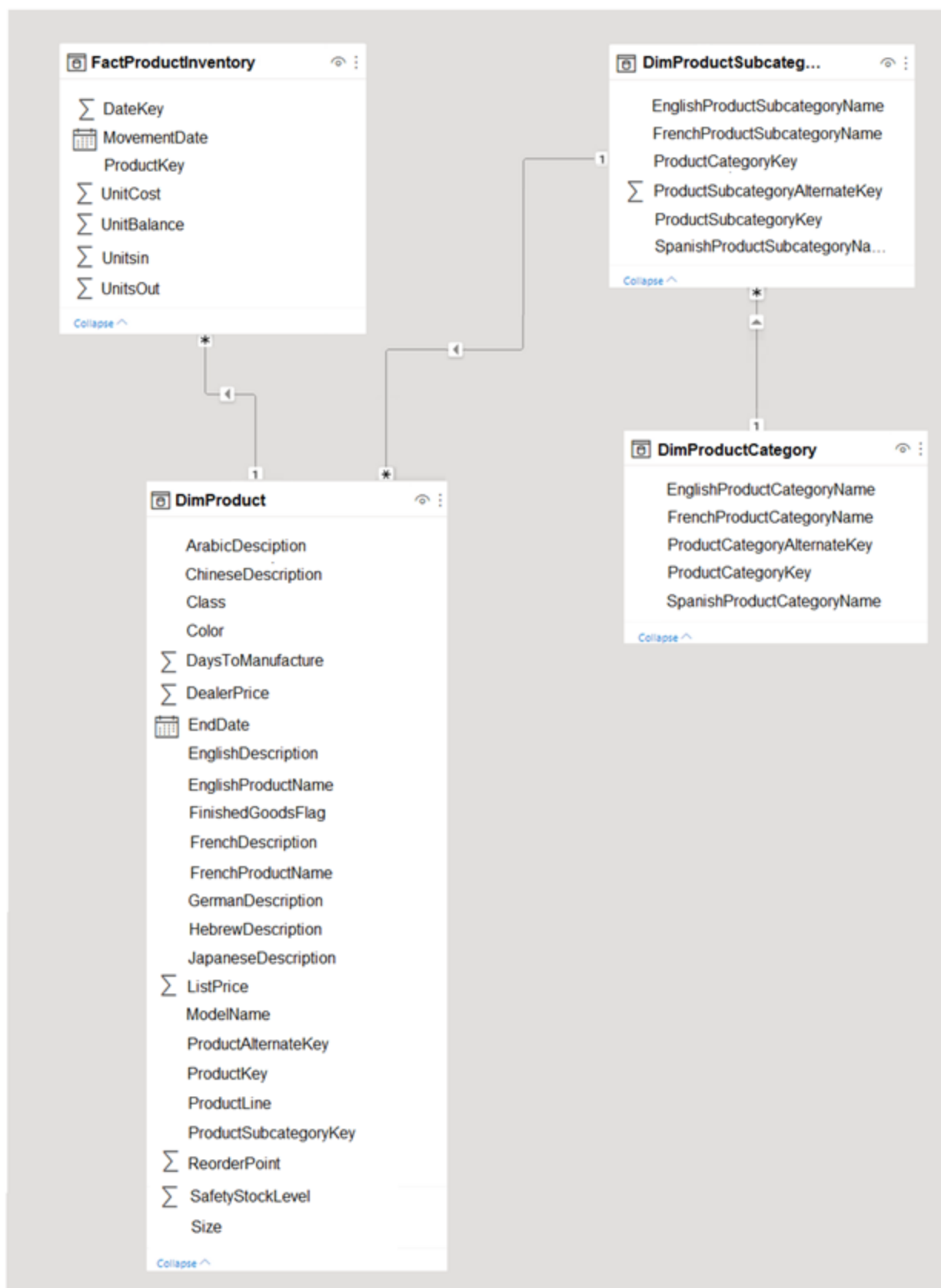
Topic #: 1

[\[All DP-500 Questions\]](#)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have the Power BI data model shown in the exhibit. (Click the Exhibit tab.)



Users indicate that when they build reports from the data model, the reports take a long time to load.

You need to recommend a solution to reduce the load times of the reports.

Solution: You recommend normalizing the data model.

Does this meet the goal?

- A. Yes
- B. No

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 108

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. corr
- C. summary
- D. rollup

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 109

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You are using DAX Studio to analyze a slow-running report query.

You need to identify inefficient join operations in the query.

What should you review?

- A. the query statistics
- B. the query plan
- C. the query history

[Show Suggested Answer](#)



Actual exam question from Microsoft's DP-500

Question #: 110

Topic #: 1

[\[All DP-500 Questions\]](#)

You have a Power Bi dataset that contains the following measure.

```
YTD Year-over-Year Var =  
DIVIDE (  
    (  
        [Sales Amount]  
        - CALCULATE (  
            [Sales],  
            SAMEPERIODLASTYEAR ( 'Calendar'[Date] ),  
            'Calendar'[Flag] = "YTD"  
        )  
    ),  
    CALCULATE (  
        [Sales],  
        SAMEPERIODLASTYEAR ( 'Calendar'[Date] ),  
        'Calendar'[Flag] = "YTD"  
    ),  
    BLANK ()  
)
```

You need to improve the performance of the measure without affecting the logic or the results.

What should you do?

- A. Create a variable and replace the values for [Sales Amount].
- B. Replace both CALCULATE functions by using a variable that contains the CALCULATE function.
- C. Remove the alternative result of BLANK() from the DIVIDE function.
- D. Remove 'Calendar'[Flag] = "YTD" from the code.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 111

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 112

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You need to save Power BI dataflows in an Azure Storage account.

Which two prerequisites are required to support the configuration? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. The connection must be created by a user that is assigned the Storage Blob Data Owner role.
- B. Dataflows must exist already for any directly connected Power BI workspaces.
- C. The storage account must be protected by using an Azure Firewall.
- D. The storage account must be created in a separate Azure region from the Power BI tenant and workspaces.
- E. The storage account must have hierarchical namespace enabled.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 113

Topic #: 1

[\[All DP-500 Questions\]](#)

## HOTSPOT -

You have the Power BI workspaces shown in the following exhibit.

### Workspaces

View personal and group workspaces that exist in your organization. To change users' ability to create workspaces, see [Tenant settings](#).

Name	Description	Type	State	Capacity name	Capacity SKU Tier	Workspace upg...
Web Analytics		Workspace	Active			
Infrastructure Svcs		Workspace	Active	Premium Per User - Re...	PP3	
Sales Orders		Workspace	Active	pbie01	A1	
PBI Capacity Metrics		Workspace	Orphaned			
PersonalWorkspace		Personal Group	Active			

Items per page: 10 1 - 7 of 7

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

The [answer choice] workspace will allow users outside the organization to view private reports from a custom application without a Power BI license.

- Infrastructure Svcs
- PBI Capacity Metrics
- Sales Orders
- Web Analytics

A user must be assigned the [answer choice] role to change the state of the PBI Capacity Metrics workspace to **Active**.

- Admin
- Contributor
- Member
- Viewer

Show Suggested Answer

Actual exam question from Microsoft's DP-500

Question #: 114

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use Import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.

When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- A. Enable the large dataset storage format for workspace.
- B. Create a dataset parameter to reduce the fact table row count in the development and test pipelines.
- C. Request the authors of the deployment pipeline datasets to reduce the number of datasets republished during development.
- D. Turn off auto refresh when publishing the dataset changes to the Power BI service.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 115

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a deployment pipeline for a Power BI workspace. The workspace contains two datasets that use import storage mode.

A database administrator reports a drastic increase in the number of queries sent from the Power BI service to an Azure SQL database since the creation of the deployment pipeline.

An investigation into the issue identifies the following:

- One of the datasets is larger than 1 GB and has a fact table that contains more than 500 million rows.
- When publishing dataset changes to development, test, or production pipelines, a refresh is triggered against the entire dataset.

You need to recommend a solution to reduce the size of the queries sent to the database when the dataset changes are published to development, test, or production.

What should you recommend?

- Enable the large dataset storage format for workspace.
- In the dataset, delete the fact table.
- Create a dataset parameter to reduce the fact table row count in the development and test pipelines.
- From Capacity settings in the Power BI Admin portal, reduce the Max Intermediate Row Set Count setting.

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 116

Topic #: 1

[\[All DP-500 Questions\]](#)

---

You have a Power BI workspace named Workspace1 that contains five dataflows.

You need to configure Workspace1 to store the dataflows in an Azure Data Lake Storage Gen2 account.

What should you do first?

- A. Change the Data source settings in the dataflow queries.
- B. Disable load for all dataflow queries.
- C. Delete the dataflow queries.

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 117

Topic #: 1

[\[All DP-500 Questions\]](#)

You are using an Azure Synapse Analytics serverless SQL pool to query network traffic logs in the Apache Parquet format.

A sample of the data is shown in the following table.

source		destination	
name	ip	name	ip
Network01	192.168.0.1	Internet	0.0.0.0

You need to create a Transact-SQL query that will return the source IP address.

Which function should you use in the select statement to retrieve the source IP address?

- A. JSON\_VALUE
- B. CONVERT
- C. FIRST\_VALUE
- D. FOR\_JSON

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 118

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 119

Topic #: 1

[\[All DP-500 Questions\]](#)

---

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. explain
- B. describe
- C. corr
- D. cov

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 120

Topic #: 1

[\[All DP-500 Questions\]](#)

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You have an Azure Synapse Analytics dedicated SQL pool and a Microsoft Purview account.

The Microsoft Purview account has been granted sufficient permissions to the dedicated SQL pool.

You need to ensure that the SQL pool is scanned by Microsoft Purview.

What should you do first?

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

Show Suggested Answer





Actual exam question from Microsoft's DP-500

Question #: 122

Topic #: 1

[\[All DP-500 Questions\]](#)

DRAG DROP

-

You have a dataset that is populated from a list of business categories in a source database. The list of categories changes over time.

You use Power BI Report Builder to create a paginated report. The report has a report parameter named BusinessCategory.

You need to modify BusinessCategory to ensure that when the report opens, a drop-down list displays all the business categories, and all the business categories are selected.

How should you configure BusinessCategory? To answer, drag the appropriate options to the correct settings. Each option 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.

### Options

List

None

Query

### Settings

Available Values

Default Values

Show Suggested Answer



Actual exam question from Microsoft's DP-500

Question #: 123

Topic #: 1

[\[All DP-500 Questions\]](#)

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You have a Power BI tenant.

You need to ensure that all reports use a consistent set of colors and fonts. The solution must ensure that the colors and fonts can be applied to existing reports.

What should you create?

- A. a report theme file
- B. a PBIX file
- C. a Power BI template

Show Suggested Answer

