DP-500

Thursday, May 25, 2023 11:39 AM

https://www.pass4future.com/questions/microsoft/dp-500

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

Question #1*Topic 1*

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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.

1. 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

From <https://www.examtopics.com/exams/microsoft/dp-500/view/>

Correct Answer: *B*

2. 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.
Which two possible tools can you use to identify what causes the report to render slowly? Each correct answer presents a complete solution.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/>

From <https://www.examtopics.com/exams/microsoft/dp-500/view/>

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

Hide Solution Discussion 2

Correct Answer: *BD*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/>

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.

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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.

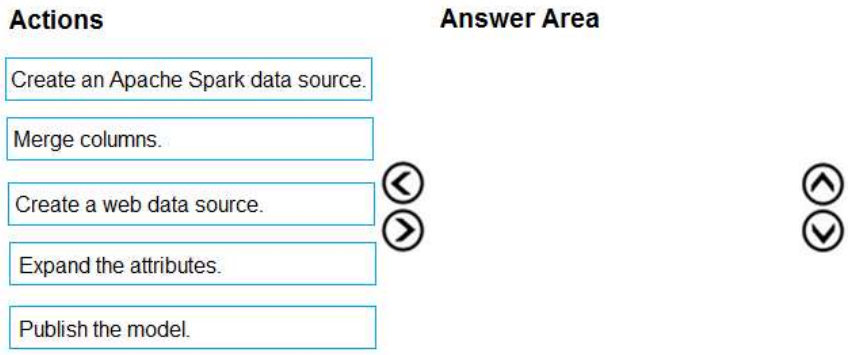
Deploy prebuilt datasets to Power BI to simplify the query experience of the customers.

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

SQL pool.

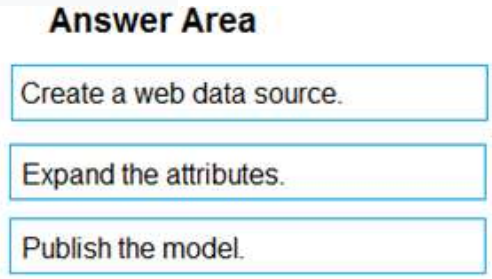
You need to integrate the external data source to support the planned changes.

3. 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.



Hide Solution Discussion 2

Correct Answer:



From <https://www.examtopics.com/exams/microsoft/dp-500/view/>

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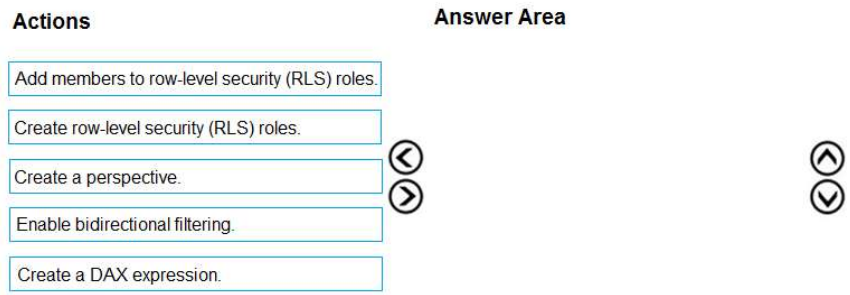
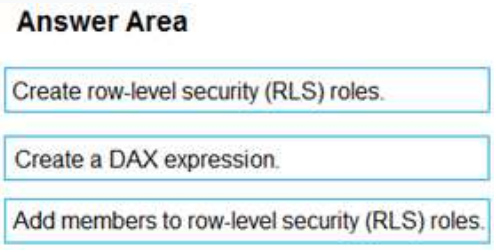


Hide Solution Discussion 8

Correct Answer:



From <https://www.examtopics.com/exams/microsoft/dp-500/view/>

5. 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.

   From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

   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

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>
Correct Answer: *D*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

6. 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.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

Correct Answer: *D*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

7. 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.

From <https://www.examtopics.co
Correct Answer: *BD*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

m/exams/microsoft/dp-500/view/2/>

8.

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
```

Reveal Solution Discussion 5
Previous QuestionsNext Questions

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

Correct Answer:

Answer Area

```
DECLARE @model varbinary(max) = (
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  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
```

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

Case 2

DRAG DROP -

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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

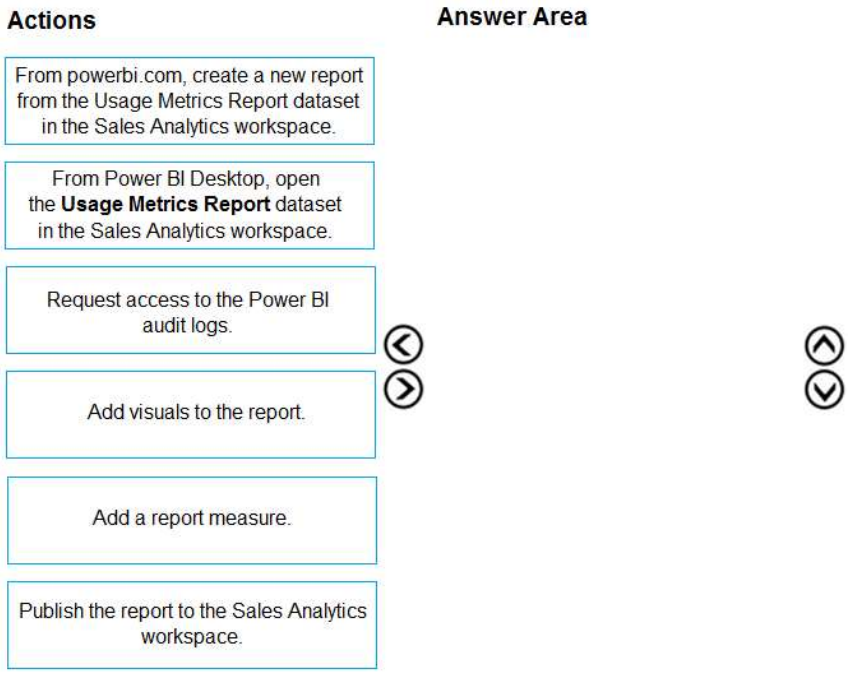
pipelines.

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.



Reveal Solution Discussion 9

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

Correct Answer:

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

2.

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.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

Correct Answer: *D*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

3.

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

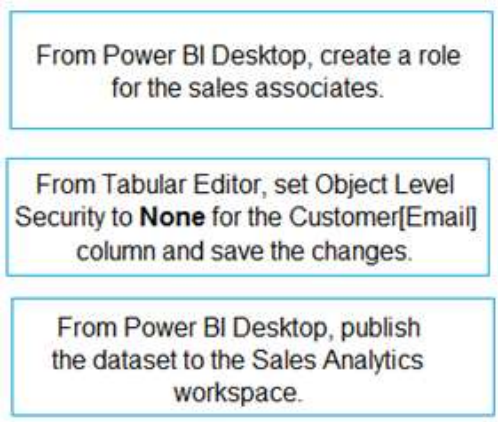
- From Power BI Desktop, publish the dataset to the Sales Analytics workspace.
- From Power BI Desktop, add a table filter to the role.
- From Power BI Desktop, create a role for the sales associates.
- From Tabular Editor, set Object Level Security to **None** for the Customer[Email] column and save the changes.
- From Tabular Editor, set Object Level Security to **None** for the Customer table and save the changes.

Answer Area

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

Correct Answer:

Answer Area



From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

4. 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.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>
Correct Answer: *ADE*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/3/>

5. 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.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

Correct Answer: *B*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

6. What should you configure in the deployment pipeline?

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

From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

Correct Answer: *D*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

7. 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.

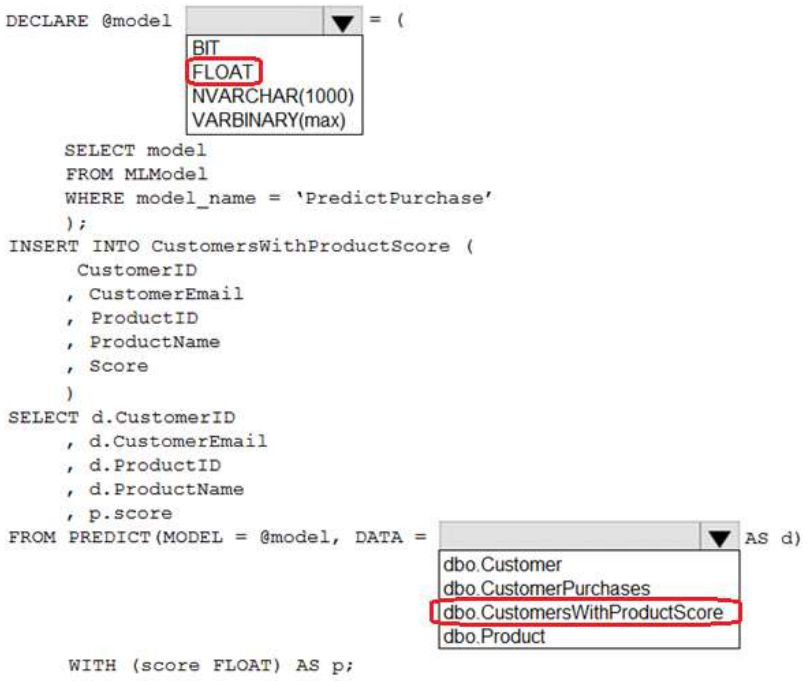
Answer Area

```
DECLARE @model [ ▼ ] = (
                BIT
                FLOAT
                NVARCHAR(1000)
                VARBINARY(max)
     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)
                dbo.Customer
                dbo.CustomerPurchases
                dbo.CustomersWithProductScore
                dbo.Product
     WITH (score FLOAT) AS p;
```

From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

Correct Answer:

Answer Area



From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

8. 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] | SalesTransactions[CustomerKey] | SalesTransactions[Order Number] | SalesTransactions[ProductKey]] ), 1)
VAR BasketsWithAndProducts =
        [CALCULATE( | CALCULATABLE( | INTERSECT( | KEEPFILTERS(]
        SUMMARIZE ( SalesTransactions, SalesTransactions[OrderNumber] ),
        REMOVEFILTERS ( 'Product' ),
        REMOVEFILTERS ( SalesTransactions[ProductKey] ),
        USERELATIONSHIP ( SalesTransactionsp[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
```

Reveal Solution

From <https://www.examtopics.com/exams/microsoft/dp-500/view/4/>

Correct Answer:

Answer Area

```
BasketsWithProducts =
VAR CountBaskets =
        SUMX (SUMMARIZE ( Sales, [Customer[CustomerKey] | SalesTransactions[CustomerKey] | SalesTransactions[Order Number] | SalesTransactions[ProductKey]] ), 1)
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Contoso identifies the following user issues:

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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.

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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 **Most Voted**

Hide Solution Discussion 9

Correct Answer: *D*

Community vote distribution
D (100%)

Question #6 *Topic 1*

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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 -

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 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.

Hide Solution Discussion 8

Correct Answer: *D*

Community vote distribution
A (100%)

Question *#7Topic 1*

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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 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.

Reveal Solution Discussion 12

Question #8*Topic 1*

HOTSPOT -

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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.

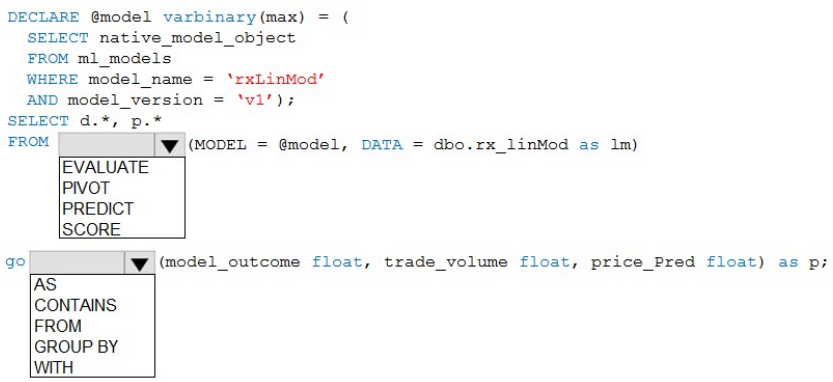
Provide internal users with the ability to incorporate machine learning models loaded to the dedicated SQL pool.

You need to 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



Reveal Solution Discussion 5
Previous QuestionsNext Questions

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>

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.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/2/>
Question #21

From <https://www.examtopics.com/exams/microsoft/dp-500/view/6/>

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 **Most Voted**

Hide Solution Discussion 9
Correct Answer: *D*

Community vote distribution

From <https://www.examtopics.com/exams/microsoft/dp-500/view/6/>

Question #22

From <https://www.examtopics.com/exams/microsoft/dp-500/view/6/>

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. Most Voted
- C. Dataset certification is disabled for the Power BI tenant. Most Voted
- D. The sensitivity level for the dataset is set to Highly Confidential.
- E. Row-level security (RLS) is missing from the dataset.

Hide Solution Discussion 7

Correct Answer: *BC*

Community vote distribution

From <https://www.examtopics.com/exams/microsoft/dp-500/view/6/>

Question 5

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.

AReduce the memory assigned to the dataflows.

BExecute non-foldable operations before foldable operations.

CExecute foldable operations before non-foldable operations.

DPlace the ingestion operations and transformation operations in a single dataflow.

EPlace the ingestion operations and transformation operations in separate dataflows.

Expose Correct Answer

Answer : **C, E**

Next Question

From <https://www.pass4future.com/questions/microsoft/dp-500>

Question #23*Topic 1*

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 **Most Voted**
- C. 70 Pro
- D. one Embedded
- E. 35 Pro **Most Voted**
- F. 35 Premium per user

Hide Solution Discussion 22

Correct Answer: *BF*

Community vote distribution

From <https://www.examtopics.com/exams/microsoft/dp-500/view/6/>

Question #24*Topic 1*

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. **Most Voted**
- C. Modify the source of each query.
- D. Update all the parameter values.
- E. Delete all the calculated tables. **Most Voted**

Hide Solution Discussion 14

Correct Answer: *CD*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/6/>

Question 2

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?

ADelete the dataflow queries.

BFrom the Power BI Admin portal, enable tenant-level storage.

CDisable load for all dataflow queries.

DChange the Data source settings in the dataflow queries.

Expose Correct Answer
Answer : **B**

From <https://www.pass4future.com/questions/microsoft/dp-500>

Question 3

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?

AJS0N_VALUE

BFOR.JSON

CCONVERT

DFIRST VALUE

From <https://www.pass4future.com/questions/microsoft/dp-500>

Answer : **A**

From <https://www.pass4future.com/questions/microsoft/dp-500>

Question 5

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.

AReduce the memory assigned to the dataflows.

BExecute non-foldable operations before foldable operations.

CExecute foldable operations before non-foldable operations.

DPlace the ingestion operations and transformation operations in a single dataflow.

EPlace the ingestion operations and transformation operations in separate dataflows.

Expose Correct Answer

Answer : **C, E**

From <https://www.pass4future.com/questions/microsoft/dp-500>

Question #35*Topic 1*

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?

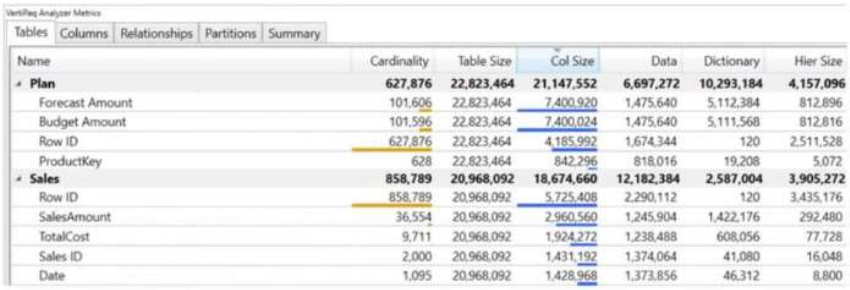
- A. a stacked bar chart
- B. an area chart **Most Voted**
- C. a bar chart
- D. a pie chart

From <https://www.examtopics.com/exams/microsoft/dp-500/view/9/>

Question #39

From <https://www.examtopics.com/exams/microsoft/dp-500/view/10/>

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



VertiPaq Analyzer Metrics

Tables | Columns | Relationships | Partitions | Summary

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

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

VertiPaq Analyzer Metrics

Tables | Columns | Relationships | Partitions | Summary

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

You need to reduce the model size by eliminating invalid relationships.

Which column should you remove?

- A. Sales[Sales Amount]
- B. Sales[Row ID] **Most Voted**
- C. Sales[Sales ID]
- D. Plan[Row ID]

From <https://www.examtopics.com/exams/microsoft/dp-500/view/10/>

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. Most Voted
- C. Replace the product category charts with a bar chart for sales and a hierarchy of Category and Sub Category on the axis. Most Voted
- D. Replace all the filters on the Filters pane with visual slicers on the report page.

Hide Solution Discussion 5

Correct Answer: *BC*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/11/>

nbaqchi
Highly Voted 4 months, 4 weeks ago
Selected Answer: C
Answer is correct. If the report has only one data source, there is no need to change this privacy level (None is the default) because there is no risk of exposing data between various sources. However, as soon as a second data source is created in the report, Power BI asks for the privacy level to be determined for both data sources because it cannot be kept to None now. So choosing it to Public is the correct option.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/11/>

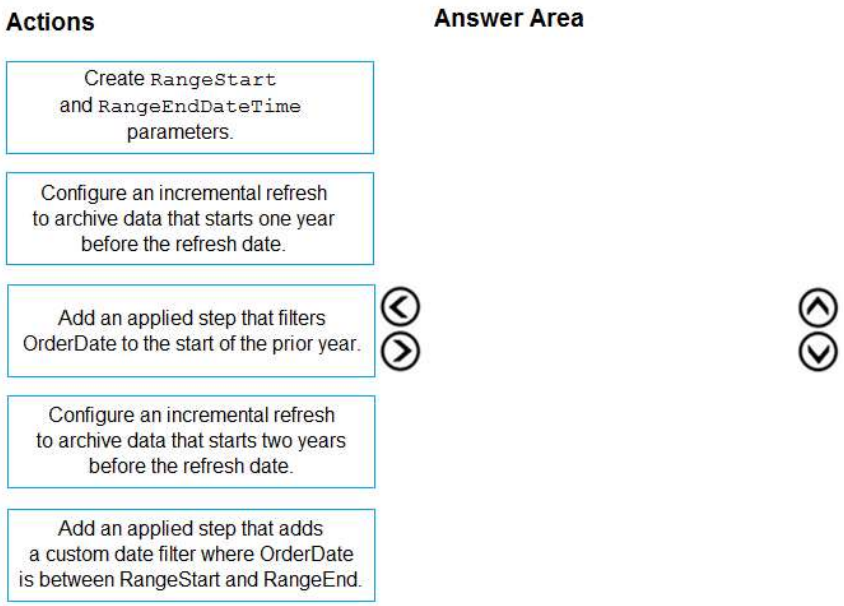
Question #43*Topic 1*
DRAG DROP -

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.

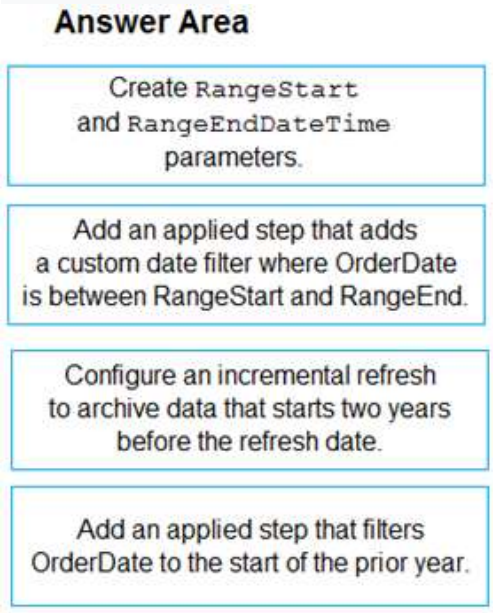
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

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



Hide Solution Discussion 7

Correct Answer:



fdsdfgxcvbdsfhshfg
3 weeks, 3 days ago
Let's suppose we're in 2023 and the solution requires us to have OrderDate starting on or after the beginning of the prior year (so 2022 onward): 1. Create RangeStart RangeEnd - obviously 2. Add an applied step to filter our dates between these two params - obviously 3. Create an incremental refresh to archive data that starts ONE YEAR BEFORE THE REFRESH DATE. Now what that third step does is all we need for the solution - it creates a yearly partition for the entire 2022, and the quarterly/monthly partitions in the current 2023 year. We don't need any additional filtering. The same can be achieved in 4 steps, with last 2 years being archived (2021, 2022) and then by filtering OrderDate to the start of the prior year. So two approaches are possible in here, but we should select the 4-steps one. https://youtu.be/Kui_1G6kQIQ?t=466 Correct me If I'm wrong

From <https://www.examtopics.com/exams/microsoft/dp-500/view/11/>

From <https://www.examtopics.com/exams/microsoft/dp-500/view/11/>

Configure incremental refresh and real-time data

From <https://learn.microsoft.com/en-us/power-bi/connect-data/incremental-refresh-configure>

Question #44 *Topic 1*

DRAG DROP -

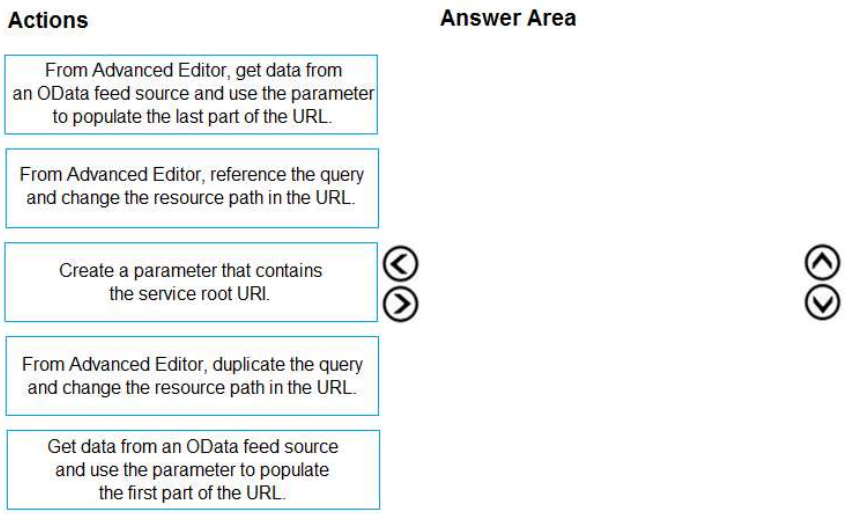
You plan to create a Power BI report that will use an OData feed as the data source. You will retrieve all the entities from two different collections by using the same service root.

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.

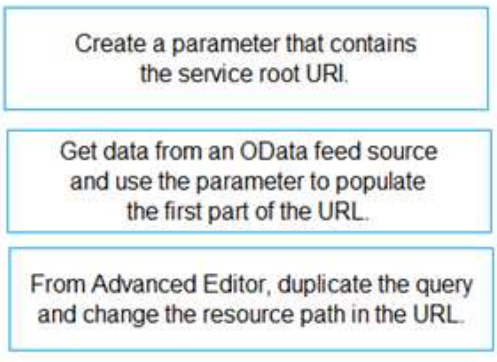
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Hide Solution Discussion 5

Correct Answer:

Answer Area



Previous QuestionsNext Questions

From <https://www.examtopics.com/exams/microsoft/dp-500/view/11/>

Question #47 *Topic 1*

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

Hide Solution Discussion 3

Correct Answer: *B*

From <https://www.examtopics.com/exams/microsoft/dp-500/view/12/>

Question #49*Topic 1*

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."

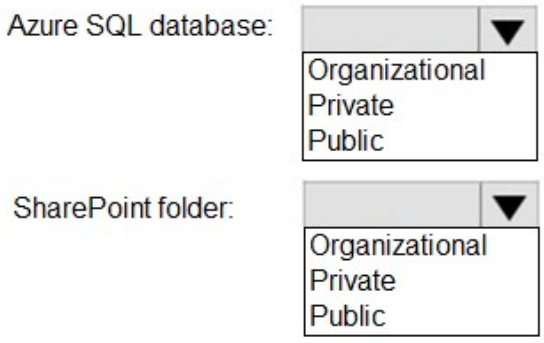
You discover that the dataset contains queries that fold data from the SharePoint folder to the Azure SQL database.

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.

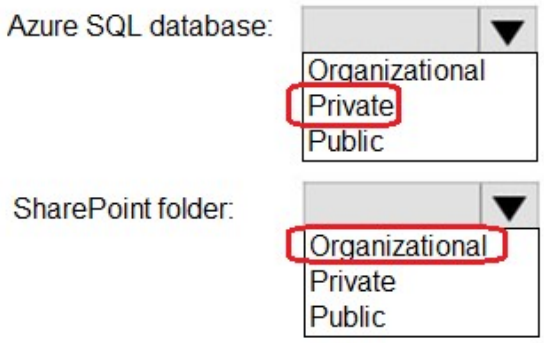
Answer Area



From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>

Correct Answer:

Answer Area



From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>

stfglv
Most Recent 3 months, 1 week ago
Sensitive data --> must be private. The other dataset could theoretically be public but why would it be when a higher privacy level is organizational and it seems appropriate for organizational data. The name says it all.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>

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

From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>

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 **Most Voted**
- B. No

From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>

Denis06
3 months, 3 weeks ago
Calculation group is needed. https://databear.com/calculation-groups-in-power-bi/
upvoted 3 times

louisaok
4 months ago
Selected Answer: A
Calculation groups can significantly reduce the number of redundant measures by grouping common measure expressions as calculation items.

From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>
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 **Most Voted**

From <https://www.examtopics.com/exams/microsoft/dp-500/view/13/>