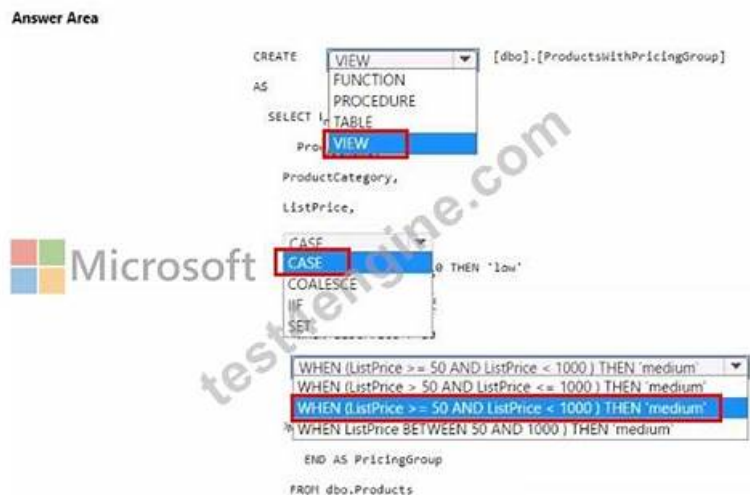


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Microsoft Implementing Analytics Solutions Using Microsoft Fabric Sample Questions (Q62-Q67):

NEW QUESTION # 62

You need to recommend a solution to group the Research division workspaces.

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

NOTE: Each correct selection is worth one point.

Answer Area

Grouping method: Domain

- Capacity
- Domain**
- Tenant

Tool: OneLake data hub

- OneLake data hub**
- The Fabric Admin portal
- The Microsoft Entra admin center

Answer:

Explanation:

Answer Area

Grouping method: Domain

- Capacity
- Domain**
- Tenant

Tool: OneLake data hub

- OneLake data hub**
- The Fabric Admin portal
- The Microsoft Entra admin center

NEW QUESTION # 63

You have a Fabric workspace named Workspace1 and an Azure Data Lake Storage Gen2 account named storage!". Workspace1 contains a lakehouse named Lakehouse1.

You need to create a shortcut to storage! in Lakehouse1.

Which connection and endpoint should you specify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Connection: abfss

- abfs
- abfss**
- https

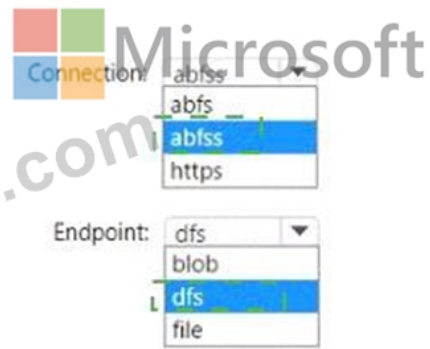
Endpoint: dfs

- dfs
- dfs**
- file

Answer:

Explanation:

Answer Area



Explanation:



When creating a shortcut to an Azure Data Lake Storage Gen2 account in a lakehouse, you should use the abfss (Azure Blob File System Secure) connection string and the dfs (Data Lake File System) endpoint. The abfss is used for secure access to Azure Data Lake Storage, and the dfs endpoint indicates that the Data Lake Storage Gen2 capabilities are to be used.

NEW QUESTION # 64

Case Study 1 - Contoso

Overview

Contoso, Ltd. is a US-based health supplements company. Contoso has two divisions named Sales and Research. The Sales division contains two departments named Online Sales and Retail Sales. The Research division assigns internally developed product lines to individual teams of researchers and analysts.

Existing Environment

Identity Environment

Contoso has a Microsoft Entra tenant named contoso.com. The tenant contains two groups named ResearchReviewersGroup1 and ResearchReviewersGroup2.

Data Environment

Contoso has the following data environment:

- The Sales division uses a Microsoft Power BI Premium capacity.
- The semantic model of the Online Sales department includes a fact table named Orders that uses Import mode. In the system of origin, the OrderID value represents the sequence in which orders are created.
- The Research department uses an on-premises, third-party data warehousing product.
- Fabric is enabled for contoso.com.
- An Azure Data Lake Storage Gen2 storage account named storage1 contains Research division data for a product line named Productline1. - The data is in the delta format.
- A Data Lake Storage Gen2 storage account named storage2 contains Research division data for a product line named Productline2. The data is in the CSV format.

Requirements

Planned Changes

Contoso plans to make the following changes:

- Enable support for Fabric in the Power BI Premium capacity used by the Sales division.
- Make all the data for the Sales division and the Research division available in Fabric.
- For the Research division, create two Fabric workspaces named Productline1ws and Productline2ws.
- In Productline1ws, create a lakehouse named Lakehouse1.
- In Lakehouse1, create a shortcut to storage1 named ResearchProduct.

Data Analytics Requirements

Contoso identifies the following data analytics requirements:

- All the workspaces for the Sales division and the Research division must support all Fabric experiences.
- The Research division workspaces must use a dedicated, on-demand capacity that has per-minute billing.
- The Research division workspaces must be grouped together logically to support OneLake data hub filtering based on the department name.
- For the Research division workspaces, the members of ResearchReviewersGroup1 must be able to read lakehouse and warehouse data and shortcuts by using SQL endpoints.
- For the Research division workspaces, the members of ResearchReviewersGroup2 must be able to read lakehouse data by using Lakehouse explorer.
- All the semantic models and reports for the Research division must use version control that supports branching.

Data Preparation Requirements

Contoso identifies the following data preparation requirements:

- The Research division data for Productline1 must be retrieved from Lakehouse1 by using Fabric notebooks.
- All the Research division data in the lakehouses must be presented as managed tables in Lakehouse explorer.

Semantic Model Requirements

Contoso identifies the following requirements for implementing and managing semantic models:

- The number of rows added to the Orders table during refreshes must be minimized.
- The semantic models in the Research division workspaces must use Direct Lake mode.

General Requirements

Contoso identifies the following high-level requirements that must be considered for all solutions:

- Follow the principle of least privilege when applicable.
- Minimize implementation and maintenance effort when possible.

Which syntax should you use in a notebook to access the Research division data for Productline1?

- A. `spark.read.format("delta").load("Tables/ResearchProduct")`
- B. `spark.read.format("delta").load("Files/ResearchProduct")`
- C. `external_table(ResearchProduct)`
- D. `external_table("Tables/ResearchProduct")`

Answer: A

Explanation:

A is loading the data from the ResearchProduct table stored in Delta format within the Tables directory of your lakehouse.

NEW QUESTION # 65

You have a Fabric tenant that contains a semantic model named Model1. Model1 uses Import mode. Model1 contains a table named Orders. Orders has 100 million rows and the following fields.

Name	Data type	Description
OrderId	Integer	Column imported from the source
OrderDateTime	Date/time	Column imported from the source
Quantity	Integer	Column imported from the source
Price	Decimal	Column imported from the source
TotalSalesAmount	Decimal	Calculated column that multiplies Quantity and Price
TotalQuantity	Integer	Measure

You need to reduce the memory used by Model1 and the time it takes to refresh the model. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

- A. Convert Quantity into the Text data type.
- B. Split OrderDateTime into separate date and time columns.
- C. Replace TotalQuantity with a calculated column.
- D. Replace TotalSalesAmount with a measure.

Answer: C,D

Explanation:

To reduce memory usage and refresh time, splitting the OrderDateTime into separate date and time columns (A) can help optimize the model because date/time data types can be more memory-intensive than separate date and time columns. Moreover, replacing TotalSalesAmount with a measure (D) instead of a calculated column ensures that the calculation is performed at query time, which can reduce the size of the model as the value is not stored but calculated on the fly. References = The best practices for optimizing Power BI models are detailed in the Power BI documentation, which recommends using measures for calculations that don't need to be stored and adjusting data types to improve performance.

NEW QUESTION # 66

You need to resolve the issue with the pricing group classification.

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

NOTE: Each correct selection is worth one point.

Answer Area

CREATE [dbo].[ProductsWithPricingGroup]

AS

SELECT ProductId,

ProductName,

ProductCategory,

ListPrice,

WHEN ListPrice <= 50 THEN 'low'

END AS PricingGroup

FROM dbo.Products

Answer Area

CREATE [dbo].[ProductsWithPricingGroup]

AS

SELECT

ProductCategory,

ListPrice,

WHEN (ListPrice >= 50 AND ListPrice < 1000) THEN 'medium'

WHEN (ListPrice > 50 AND ListPrice <= 1000) THEN 'medium'

WHEN (ListPrice >= 50 AND ListPrice < 1000) THEN 'medium'

WHEN ListPrice BETWEEN 50 AND 1000) THEN 'medium'

END AS PricingGroup

FROM dbo.Products

Answer:

Explanation:

Answer Area

```
CREATE VIEW [dbo].[ProductsWithPricingGroup]
AS
SELECT ProductCategory,
ListPrice,
CASE
WHEN (ListPrice >= 50 AND ListPrice < 1000 ) THEN 'medium'
WHEN (ListPrice > 50 AND ListPrice <= 1000 ) THEN 'medium'
WHEN (ListPrice >= 50 AND ListPrice < 1000 ) THEN 'medium'
WHEN ListPrice BETWEEN 50 AND 1000 ) THEN 'medium'
END AS PricingGroup
FROM dbo.Products
```

Explanation:

Answer Area

```
CREATE VIEW [dbo].[ProductsWithPricingGroup]
AS
SELECT ProductCategory,
ListPrice,
CASE
WHEN (ListPrice >= 50 AND ListPrice < 1000 ) THEN 'medium'
WHEN (ListPrice > 50 AND ListPrice <= 1000 ) THEN 'medium'
WHEN (ListPrice >= 50 AND ListPrice < 1000 ) THEN 'medium'
WHEN ListPrice BETWEEN 50 AND 1000 ) THEN 'medium'
END AS PricingGroup
FROM dbo.Products
```

You should use CREATE VIEW to make the pricing group logic available for T-SQL queries.
The CASE statement should be used to determine the pricing group based on the list price.
The T-SQL statement should create a view that classifies products into pricing groups based on the list price.
The CASE statement is the correct conditional logic to assign each product to the appropriate pricing group.
This view will standardize the pricing group logic across different databases and semantic models.

NEW QUESTION # 67

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