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Analyzing and Visualizing Data with Microsoft Power BI

Microsoft 70-778

Version Demo

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QUESTION NO: 1

You have a Power BI model for sales data. You create a measure to calculate the year-to-date sales.

You need to compare the year-to-date sales with the previous year for the same time period.

Which DAX function should you use?

- A. LASTDATE
- B. TOTALYTD
- C. SAMEPERIODLASTYEAR
- D. PREVIOUSYEAR
- E. DATEADD
- F. DATESVTD

ANSWER: C

QUESTION NO: 2

You have two Microsoft SQL Server database servers named SQLProd and SQLDev. SQLDev contains the same tables as SQLProd, but only a subset of the data in SQLProd.

You create a new Power BI Desktop model that uses 120 tables from SQLDev.

You plan to publish the Power BI file to the Power BI service.

You need to connect the model to the tables in SQLProd. The solution must minimize administrative effort.

What should you do from Query Editor before you publish the model?

- A. Create a new connection to SQLProd, and then import the tables from SQLProd.
- B. Delete the existing queries, and then add new data sources.
- C. Configure the Data source settings.
- D. Edit the source of each table query.

ANSWER: D

Explanation:

References: <https://docs.microsoft.com/en-us/power-bi/desktop-analysis-services-tabular-data>

QUESTION NO: 3

You plan to embed multiple visualizations in a public website.

Your Power BI infrastructure contains the visualizations configured as shown in the following table.

Visualizations name	Characteristic
Visual 1	Uses row-level security (RLS)
Visual 2	Uses a dataset that is stored in Microsoft OneDrive for Business
Visual 3	Contained in a report that was shared to your user account
Visual 4	Is a custom visual
Visual 5	Uses a dataset from an on-premises Microsoft SQL Server Analysis Services (SSAS) database

Which two visualizations can you embed into the website? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Visual 1
- B. Visual 2
- C. Visual 3
- D. Visual 4
- E. Visual 5

ANSWER: B D

Explanation:

References: <https://docs.microsoft.com/en-us/power-bi/service-publish-to-web>

QUESTION NO: 4

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is the same in each question in this series.

Start of repeated scenario.

You have a Microsoft SQL Server database that contains the following tables.

Table name	Column name	Data type
Order	Order_ID	Integer
	Order_date	Integer
	Order_amount	Currency
	Customer_ID	Integer
	Order_ship_date	Integer
	Store_ID	Integer
Customer	Customer_ID	Integer
	First_name	Varchar(100)
	Last_name	Varchar(100)
	Customer_photo	Binary
Date	Date_ID	Integer
	Date_name	Datetime
	Month	Integer
	Week	Integer
	Year	Integer
Monthly_returns	Month_ID	Integer
	Total_returns	Float
	Store_ID	Varchar(100)
Store	Store_ID	Integer
	Name	Varchar(100)
	City	Varchar(100)
	Sales_target	Float

The following columns contain date information:

- Date[Month] in the mmyyyy format
- Date[Date_ID] in the ddmmYYYY format
- Date[Date_name] in the mm/dd/yyyy format
- Monthly_returns[Month_ID] in the mmyyyy format

The Order table contains more than one million rows.

The Store table has a relationship to the Monthly_returns table on the Store_ID column. This is the only relationship between the tables.

You plan to use Power BI Desktop to create an analytics solution for the data.

End of repeated scenario.

You plan to create a chart that displays total Order[Order_amount] by Store[Name].

You need to modify the model to ensure that you can create the chart.

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

NOTE: Each correct selection is worth one point.

A. Create a relationship between the Order table and the Store table.

- B. To the Order table, add a measure that uses the COUNTA('Order'[Order_ID]) DAX formula.
- C. To the Order table, add a column that uses the RELATED('Store'[Store_ID]) DAX formula.
- D. To the Order table, add a measure that uses the COUNT('Order'[Order_amount]) DAX formula.

ANSWER: A C

QUESTION NO: 5 - (DRAG DROP)

DRAG DROP

You need to create a measure named YTDPreviousSales that will be used in a table visualization. YTDPreviousSales must show the year-to-date (YTD) sales of the previous year for the same month. A sample of the desired data is shown in the following table.

SalesAmount	YTDPreviousSales	Year	Month
\$ 400,000	\$ 515,000	2017	January
\$ 500,000	\$ 1,025,000	2017	February
\$ 480,000	\$ 1,505,000	2017	March
\$ 470,000	\$ 1,855,000	2017	April
\$ 500,000	\$ 2,255,000	2017	May
\$ 510,000	\$ 2,767,000	2017	June
\$ 425,000	\$ 3,242,000	2017	July
\$ 430,000	\$ 3,747,000	2017	August
\$ 200,000	\$ 4,227,000	2017	September
\$ 300,000	\$ 4,687,000	2017	October
\$ 320,000	\$ 5,152,000	2017	November
\$ 400,000	\$ 5,657,000	2017	December
\$ 415,000	\$ 400,000	2018	January
\$ 325,000	\$ 900,000	2018	February
\$ 435,000	\$ 1,380,000	2018	March

How should you complete the measure? To answer, drag the appropriate values to the correct 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.

Select and Place:

Values

CALCULATE

CALENDAR

DATEADD

DATEDIFF

FILTER

TOTALYTD

YTD

Answer Area

YTDPreviousSales = [] (SUM(FactInternetSales[SalesAmount]),
[] (DimDate[Date], -12, MONTH))

ANSWER:

Values

CALCULATE

CALENDAR

DATEADD

DATEDIFF

FILTER

TOTALYTD

YTD

Answer Area

YTDPreviousSales = CALCULATE (SUM(FactInternetSales[SalesAmount]),
DATEADD (DimDate[Date], -12, MONTH))

Explanation:

References:

<https://powerpivotpro.com/2016/01/year-to-date-in-previousprior-year/>

QUESTION NO: 6

You embed a Power BI report in a Microsoft SharePoint Online page.

A user named User1 can access the SharePoint Online page, but the Power BI web part displays the following error message: "This content isn't available."

User1 is unable to view the report.

You verify that you can access the SharePoint Online page and that the Power BI report displays as expected.

You need to ensure that User1 can view the report from SharePoint Online.

What should you do?

- A. Publish the app workspace.
- B. Share the dashboards in the app workspace.
- C. Edit the settings of the Power BI web part.
- D. Modify the members of the app workspace.

ANSWER: A

QUESTION NO: 7 - (HOTSPOT)


HOTSPOT

You create an app workspace named Wingtip Sales. Wingtip Sales is configured as shown in the following exhibit.

Create an app workspace

Name your workspace

Workspace ID

 Available

Private - Only approved members can see what's inside

Members can edit Power BI content

Add workspace members

austin@wingtiptoys.com	Admin	<input type="button" value="v"/>	<input type="button" value="trash"/>
maxwel@wingriptoys.com	Member	<input type="button" value="v"/>	<input type="button" value="trash"/>
james@wingtiptoys.com	Member	<input type="button" value="v"/>	<input type="button" value="trash"/>

Advanced ^

Dedicated capacity Off

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.

Hot Area:

Answer Area

The one task that Austin is permitted to perform, but the other members are not permitted to perform, is [answer choice].

add other users as members
create a new dashboard
pin a report visualization to a dashboard
publish a PBIX file

To make the content in Wingtip Sales available to users who have the free Power BI license, you must first [answer choice].

add all the users as workspace members
change the app workspace from Private to Public
purchase Power BI Premium

ANSWER:

Answer Area

The one task that Austin is permitted to perform, but the other members are not permitted to perform, is [answer choice].

add other users as members
create a new dashboard
pin a report visualization to a dashboard
publish a PBIX file

To make the content in Wingtip Sales available to users who have the free Power BI license, you must first [answer choice].

add all the users as workspace members
change the app workspace from Private to Public
purchase Power BI Premium

Explanation:

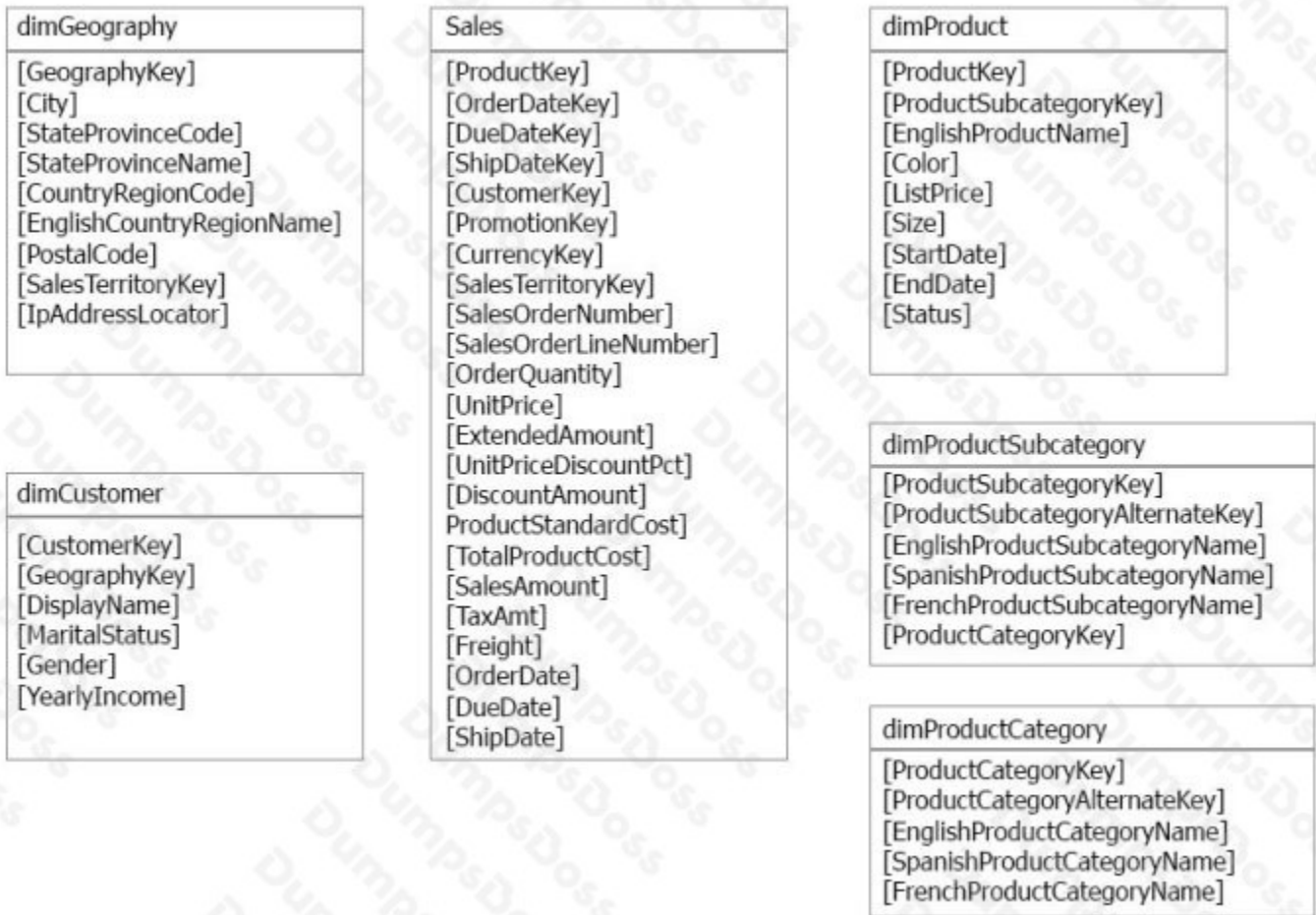
QUESTION NO: 8 - (DRAG DROP)

DRAG DROP

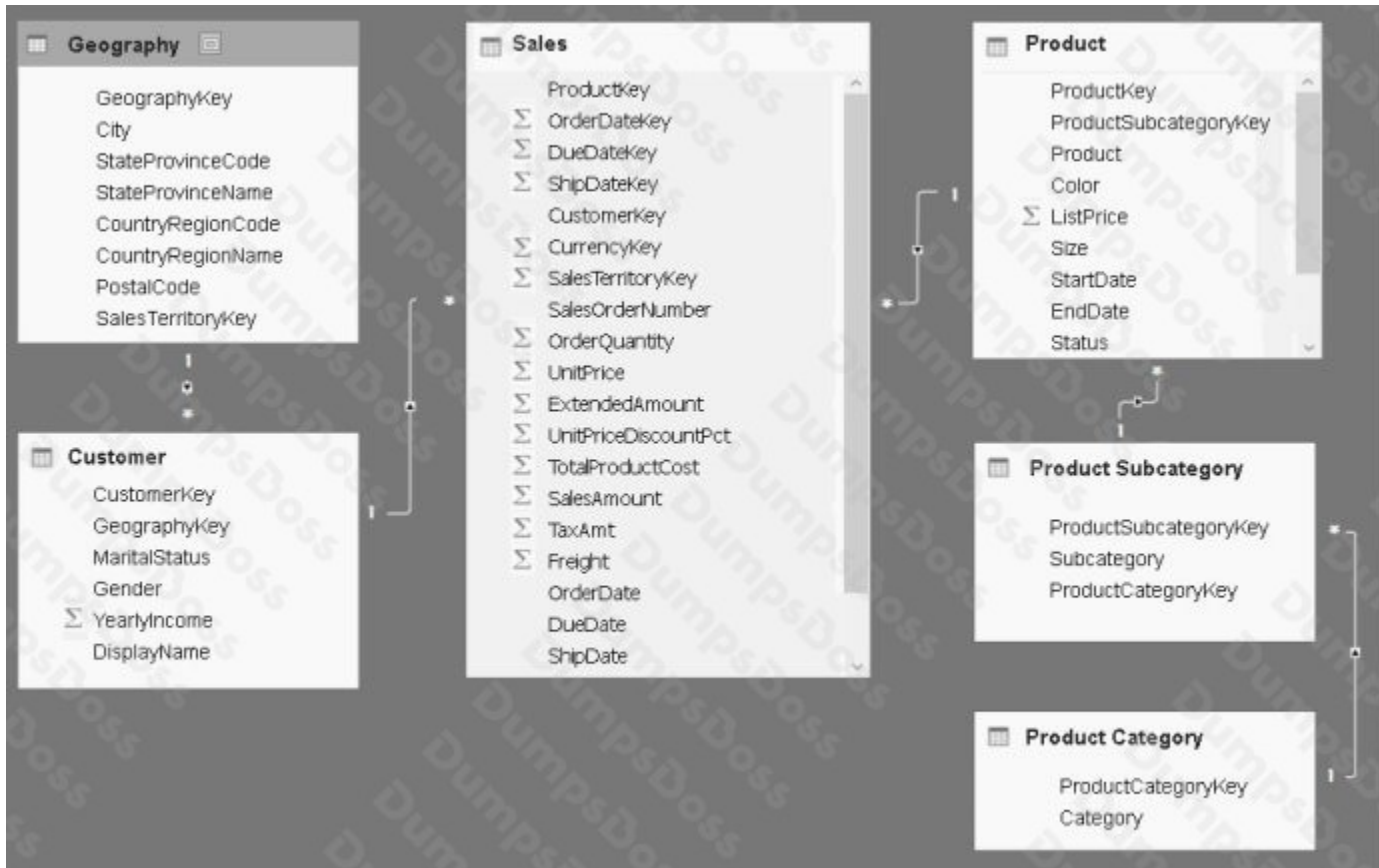
Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Start of repeated scenario.

You have a Microsoft SQL Server database that has the tables shown in the Database Diagram exhibit. (Click the Database Diagram tab.)



You plan to develop a Power BI model as shown in the Power BI Model exhibit. (Click the Power BI Model tab.)



You plan to use Power BI to import data from 2013 to 2015.

Product Subcategory[Subcategory] contains NULL values.

End of Repeated Scenario.

You implement the Power BI model.

You need to create a hierarchy that has Category, Subcategory, and Product.

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.

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

Select and Place:

Actions

Answer Area

To the Product Subcategory table, add a calculated measure that uses the `RELATED (' Product Category' [Category])` DAX function.

To the Product table, add a column named Category that uses the `RELATED (' Product Category' [Category])` DAX function.

To the Product table, add a calculated measure that uses the `RELATED (' Product Category' [Category])` DAX function.

Create a hierarchy.

To the Product table, add a column named SubCategory that uses the `RELATED (' Product Subcategory' [Subcategory])` DAX function.

To the Product Subcategory table, add a column named Category that uses the `RELATED (' Product Category' [ProductCategoryKey])` DAX function.



ANSWER:

Actions	Answer Area
	To the Product table, add a calculated measure that uses the <code>RELATED (' Product Category' [Category])</code> DAX function.
To the Product table, add a column named Category that uses the <code>RELATED (' Product Category' [Category])</code> DAX function.	To the Product Subcategory table, add a calculated measure that uses the <code>RELATED (' Product Category' [Category])</code> DAX function.
	Create a hierarchy.
To the Product table, add a column named SubCategory that uses the <code>RELATED (' Product Subcategory' [Subcategory])</code> DAX function.	
To the Product Subcategory table, add a column named Category that uses the <code>RELATED (' Product Category' [ProductCategoryKey])</code> DAX function.	

Explanation:

References:

- <https://intelligentsql.wordpress.com/2013/05/08/tabular-hierarchies-across-multiple-tables/>
- <https://www.desertislesql.com/wordpress1/?p=1629>

QUESTION NO: 9

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is the same in each question in this series.

Start of repeated scenario.

You have a Microsoft SQL Server database that contains the following tables.

Table name	Column name	Data type
Order	Order_ID	Integer
	Order_date	Integer
	Order_amount	Currency
	Customer_ID	Integer
	Order_ship_date	Integer
	Store_ID	Integer
Customer	Customer_ID	Integer
	First_name	Varchar(100)
	Last_name	Varchar(100)
	Customer_photo	Binary
Date	Date_ID	Integer
	Date_name	Datetime
	Month	Integer
	Week	Integer
	Year	Integer
Monthly_returns	Month_ID	Integer
	Total_returns	Float
	Store_ID	Varchar(100)
Store	Store_ID	Integer
	Name	Varchar(100)
	City	Varchar(100)
	Sales_target	Float

The following columns contain date information:

- Date[Month] in the mmyyyy format
- Date[Date_ID] in the ddmmyyyy format
- Date[Date_name] in the mm/dd/yyyy format
- Monthly_returns[Month_ID] in the mmyyyy format

The Order table contains more than one million rows.

The Store table has a relationship to the Monthly_returns table on the Store_ID column. This is the only relationship between the tables.

You plan to use Power BI Desktop to create an analytics solution for the data.

End of repeated scenario.

You are modeling the data in Power BI.

You need to import only a sample of the data from the Order table.

What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. From Query Editor, create a custom column that uses a custom column formula.

- B. From Query Editor, add a SELECT statement that uses a WHERE clause to the source definition.
- C. In the Power BI model, create a calculated table.
- D. From Query Editor, filter the table by Order_date.
- E. From Query Editor, create a column by using Column From Examples.

ANSWER: B D

QUESTION NO: 10 - (HOTSPOT)

HOTSPOT

You have a query that retrieves data from a Microsoft Azure SQL database.

You discover that a column named ErrorCode has several values starting with a space character, and a column named SubStatus contains several non-printable characters.

You need to remove all the leading whitespaces from ErrorCode and all the non-printable characters from SubStatus. All other data must be retained.

What should you do on each column? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

ErrorCode:

	▼
From the Extract menu, click First Characters.	
From the Extract menu, click Length.	
From the Format menu, click Clean.	
From the Format menu, click Trim.	

SubStatus:

	▼
From the Extract menu, click First Characters.	
From the Extract menu, click Length.	
From the Format menu, click Clean.	
From the Format menu, click Trim.	

ANSWER:

Answer Area

ErrorCode:

	▼
From the Extract menu, click First Characters.	
From the Extract menu, click Length.	
From the Format menu, click Clean.	
From the Format menu, click Trim.	

SubStatus:

	▼
From the Extract menu, click First Characters.	
From the Extract menu, click Length.	
From the Format menu, click Clean.	
From the Format menu, click Trim.	

Explanation:

References: <https://msdn.microsoft.com/en-us/library/mt260494.aspx> <https://msdn.microsoft.com/en-us/library/mt253328.aspx>