70-778.exam.51q

Number: 70-778
Passing Score: 800
Time Limit: 120 min

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70-778

Analyzing and Visualizing Data with Microsoft Power BI

Exam A

QUESTION 1
You manage a Power BI model that has two tables named Sales and Product.

You need to ensure that a sales team can view only data that has a CountryRegionName value of Unites States and a ProductCategory value of Clothing.

What should you do from Power BI Desktop?

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A. Add the following filters to a report.
CountryRegionName is United States
ProductCategory is Clothing

B. From Power BI Desktop, create a new role that has the following filters.
[CountryRegionName] = "United States"
[ProductCategory] = "Clothing"

C. Add the following filters in Query Editor.
CountryRegionName is United States
ProductCategory is Clothing

D. From Power BI Desktop, create a new role that has the following filter.
[CountryRegionName] = "United States" &&
[ProductCategory] = "Clothing"

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/power-bi-how-to-report-filter

QUESTION 2
You create a report in the Power BI service that displays the following visualizations:

- A KPI that displays the count of customers

- A table that displays the count of customers by country
- A line chart that displays the count of customers by year

You need to receive an alert when the total number of customers reaches 10,000.

What should you do first?

A. Pin the line chart to a dashboard.
B. Pin the KPI to a dashboard.
C. Embed the report into a Microsoft SharePoint page.
D. Pin the report to a dashboard.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/service-dashboard-pin-tile-from-report

QUESTION 3
You have an app workspace named Retail Store Analysis in the Power BI service.

You need to manage the members that have access to the app workspace using the least amount of administrative effort.

What should you do?

A. From the Office 365 Admin center, click **Users**.
B. From the Power BI Admin portal, click **Tenant settings**.
C. From the Power BI Admin portal, click **Usage metrics**.
D. From the Office 365 Admin center, click **Groups**.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/service-manage-app-workspace-in-power-bi-and-office-365

QUESTION 4
Your organization has a Microsoft Office 365 subscription.

When the users attempt to access the Power BI Service, they receive the error message shown in the exhibit. (Click the **Exhibit** button.)

You need to ensure that all the users can access the Power BI service.

What should you do first?

A. From the properties of each dashboard, modify the Share dashboard settings.
B. From Microsoft Azure PowerShell, run the `Set-MsolDomain` cmdlet.
C. Instruct each user to install Microsoft Office 2016.
D. From Microsoft Azure PowerShell, run the `Set-MsolCompanySettings` cmdlet.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/power-bi/service-admin-service-free-in-your-organization#enable-or-disable-individual-user-sign-up-in-azure-active-directory

QUESTION 5
DRAG DROP

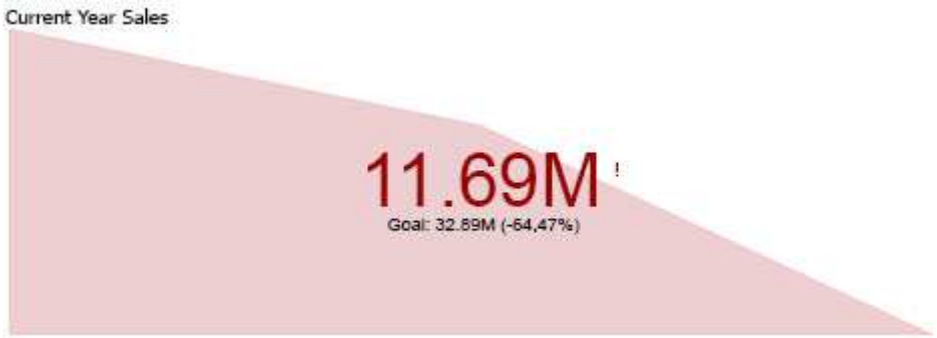
You have a table named Sales. Sales contains the data shown in the following table.

Year	Total Sales
2015	26,250,801.43
2016	32,890,351.72
2017	11,685,099.08

You have the following measure.

Total Sales This Year = SUM([Total Sales])

You plan to create a KPI to compare the current yearly sales to the previous year as shown in the exhibit. (Click the **Exhibit** button.)



You need to create the measure for the goal.

How should you complete the DAX formula? 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:

Correct Answer:

Section: (none)
Explanation

Explanation/Reference:
References: https://msdn.microsoft.com/query-bi/dax/dateadd-function-dax

QUESTION 6
You are creating a report in Power BI Desktop.

You are consuming the following tables.

Total name	Column name	Data type
Sales	SalesID	Integer
	SalesDate	Datetime
	TotalPrice	Float
	CustomerID	Integer
	SalesShipDate	Datetime
	StoreID	Integer
Date	Date	Datetime
	DateKey	Integer
	DateName	Datetime
	MonthNumber	Integer
	Week	Integer
	MonthName	Varchar(3)
	Year	Integer

Date[Date] is in the mm/dd/yyyy format. Date[DateKey] is in the ddmmyyyy format. Date[MonthNumber] is in the mm format. Date[MonthName] is in the mmm format.

You create the report shown in the exhibit. (Click the **Exhibit** button.)

You need to ensure that the months appear in the order of the calendar.

How should you sort the MonthName column?

A. by MonthNumber
B. ascending
C. descending
D. by DateKey

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
References: http://ppmworks.com/sorting-month-names-chronologically-in-microsoft-power-bi-reports/

QUESTION 7
You are creating a report in Power BI Desktop.

You are consuming the following tables.

Total name	Column name	Data type
Sales	SalesID	Integer
	SalesDate	Datetime
	TotalPrice	Float
	CustomerID	Integer
	SalesShipDate	Datetime
	StoreID	Varchar(100)
Date	Date	Datetime
	DateKey	Integer
	DateName	Datetime
	MonthNumber	Integer
	MonthName	Varchar(3)
	Year	Integer

You have a new table named Fiscal that has the same schema as the Date table, but contains the fiscal dates of your company.

You need to create a report that displays the total sales by fiscal month and calendar month.

What should you do?

A. Union Fiscal and Date as one table.
B. Add Fiscal to the model and create a one-to-many relationship by using Date[Year] and Fiscal[Year].
C. Add Fiscal to the model and create a one-to-one relationship by using Date[Year] and Fiscal[Year].
D. Merge Fiscal into the Date table.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

References: https://docs.microsoft.com/en-us/power-bi/desktop-shape-and-combine-data

QUESTION 8
You have a Power BI model that contains the following two tables:

- Sales(Sales_ID, sales_date, sales_amount, CustomerID)
- Customer(CustomerID, First_name, Last_name)

There is a relationship between Sales and Customer.

You need to create a measure to rank the customers based on their total sales amount.

Which DAX formula should you use?

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A. `RANKX(ALL(Sales), SUMX(RELATEDTABLE(Customer), [Sales_amount]))`
B. `TOPN(ALL(customer), SUMX(RELATEDTABLE(Sales), [Sales_amount]))`
C. `RANKX(ALL(customer), SUMX(RELATEDTABLE(Sales), [Sales_amount]))`
D. `RANK.EQ(Sales[sales_amount], Customer[CustomerID])`

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
References: https://msdn.microsoft.com/query-bi/dax/rankx-function-dax

QUESTION 9
You have a Microsoft SharePoint Online site named Sales.

Your company has 1,000 sales users. All the sales users can access Sales.

You create a report in an app workspace in the Power BI service. You embed the report into a page on the Sales site by using the Power BI web part.

You need to ensure that all the sales users can view the report from the Sales site.

What should you do?

A. Configure the Portal Site Connection for the Sales site.
B. Enable anonymous access for the Sales site.
C. Configure the app workspace for Premium capacity.
D. Disable the Embed content in apps setting from the Tenant settings in Power BI.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/service-embed-report-spo

QUESTION 10
You have a Microsoft Excel 2016 workbook that has a Power Pivot model. The model contains the following tables:

- Product (Product_id, Product_Name)
- Sales (Order_id, Order_Date, Product_id, Salesperson_id, Sales_Amount)
- Salesperson (Salesperson_id, Salesperson_name, address)

The model has the following relationships:

- Sales to Product
- Sales to Salesperson

You create a new Power BI file and import the Power Pivot model.

You need to ensure that you can generate a report that displays the count of products sold by each salesperson.

What should you do before you create the report?

A. Create a one-to-one relationship between Product and Salesperson.
B. For each relationship, change the Cross filter direction to **Both**.
C. For each relationship, change the Cardinality to **One to one (1:1)**.
D. Change a many-to-one relationship between Product and Salesperson.

Correct Answer: B
Section: (none)

Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/desktop-create-and-manage-relationships

QUESTION 11
You have a Power BI model that contains the following two tables:

- Sales (Sales_ID, DateID, sales_amount)
- Date(DateID, Date, Month, Week, Year)

The tables have a relationship.

You need to create a measure to calculate the sales for same period from the previous year.

Which DAX formula should you use?

A. `SUM(sales[sales_amount]) - CALCULATE(SUM(sales[sales_amount]), DATESYID('Date'[Date]))`
B. `CALCULATE(SUM(sales[sales_amount]), SAMEPERIODLASTYEAR('Date'[Date]))`
C. `SUM(sales[sales_amount]) - CALCULATE(SUM(sales[sales_amount]), SAMEPERIODLASTYEAR('Date'[Date]))`
D. `CALCULATEx(SUM(sales(sales_amount]), DATESYID('Date'[Date]))`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References:
https://msdn.microsoft.com/en-us/library/ee634825.aspx
https://docs.microsoft.com/en-us/power-bi/desktop-quickstart-learn-dax-basics
https://msdn.microsoft.com/en-us/library/ee634972.aspx

QUESTION 12
You plan to develop a Power BI report that has a bar chart to display the number of customers by location.

You have a table named Customer that has the following columns:

- CustomerID
- CustomerName
- Address
- City

- ProvState
- Country

You need to allow users to drill down by location. The report will display the number of each customer by Country, and drill down to ProvState, and then to City.

How should you configure the drill down in the bar chart?

A. In the Legend field, add Country. In the Axis field, add ProvState at the top, followed by City.
B. In the Value field, add Country at the top, followed by ProvState, and then City.
C. In the Value field, add Country. In the Legend field, add ProvState at the top, followed by City.
D. In the Axis field, add Country at the top, followed by ProvState, and then City.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/power-bi/guided-learning/visualizations#step-18
https://docs.microsoft.com/en-us/power-bi/power-bi-visualization-drill-down

QUESTION 13
You have a table named Sales that contains sales data for the United States. A sample of the data in Sales is shown in the following table.

Zone	Year	SalesAmount
Oregon	2015	100000
Oregon	2016	200000
California	2015	300000
California	2016	500000
Washington	2016	400000

When you attempt to create a map that shows SalesAmount by Zone, you discover that the map shows a bubble based on cities instead of states.

You need to ensure that the map shows bubbles based on states.

What should you do?

A. Add a column named Country that contains United States as the value.
B. Add a column for longitude and a column for latitude.
C. Select the Zone field. From the Modeling tab, change the Data Category.
D. Select the Zone field. From the Modeling tab, change the Data Type.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/guided-learning/visualizations#step-5

QUESTION 14
You have a Power BI report that displays a bar chart and a donut chart on the same page. The bar chart shows the total sales by year and the donut chart shows the total sale by category.

You need to ensure that when you select a year on the bar chart, the donut chart remains unchanged.

What should you do?

A. Edit the interactions from the Format menu.
B. Set a visual level filter on the bar chart.
C. Set a visual level filter on the donut chart.
D. Add a slicer to the page that uses the year column.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
References: https://www.excelguru.ca/blog/2016/11/23/visual-interactions-in-power-bi/

QUESTION 15
You have a Power Pivot model that includes a KPI.

You need to create a visualization based on the Power Pivot model as shown in the exhibit. (Click the **Exhibit** button.)

Year	Month	RevenueTY	RevenueTY Goal	RevenueTY Status
2013	August	$4,689,121	$4,521,528	●
	September	$5,284,376	$5,455,457	●
	October	$5,962,371	$6,418,957	●
	November	$5,532,316	$5,770,254	●
	December	$6,714,041	$6,771,982	●
2014	January	$6,748,259	$6,924,711	●
	February	$6,999,557	$7,328,599	●
	March	$8,938,044	$8,196,823	●
	April	$8,518,611	$8,142,711	●
	May	$7,982,229	$7,817,442	●
	June	$9,183,416	$9,227,351	●
	July	$7,451,696	$7,593,963	●
	August	$8,068,372	$7,791,851	●
	September	$7,669,263	$7,919,924	●
	October	$7,813,739	$7,592,288	●
	November	$10,322...	$9,857,259	●

Which type of visualization should you use?

A. matrix
B. KPI
C. multi row card
D. table

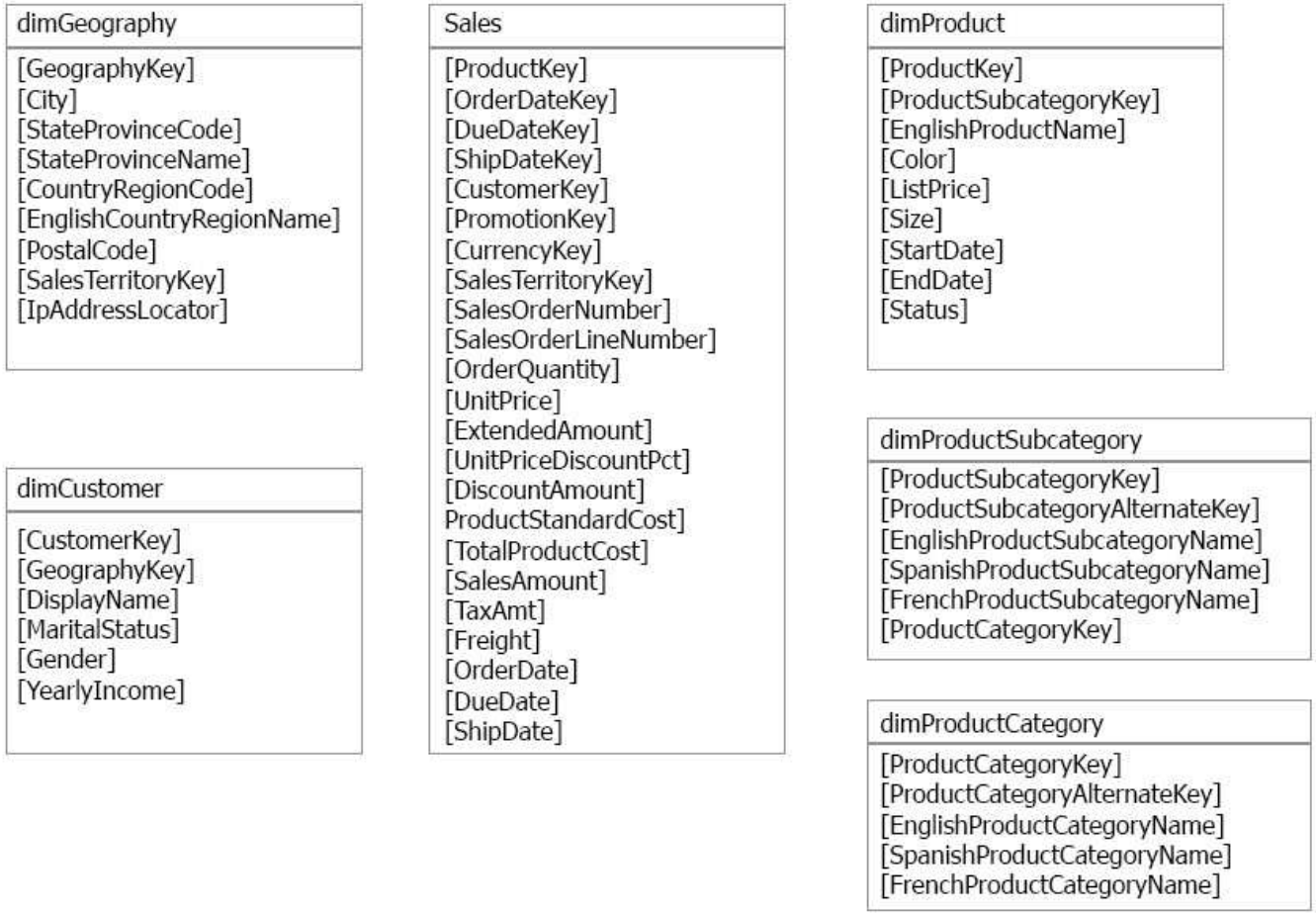
Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
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 **Exhibit** button.)



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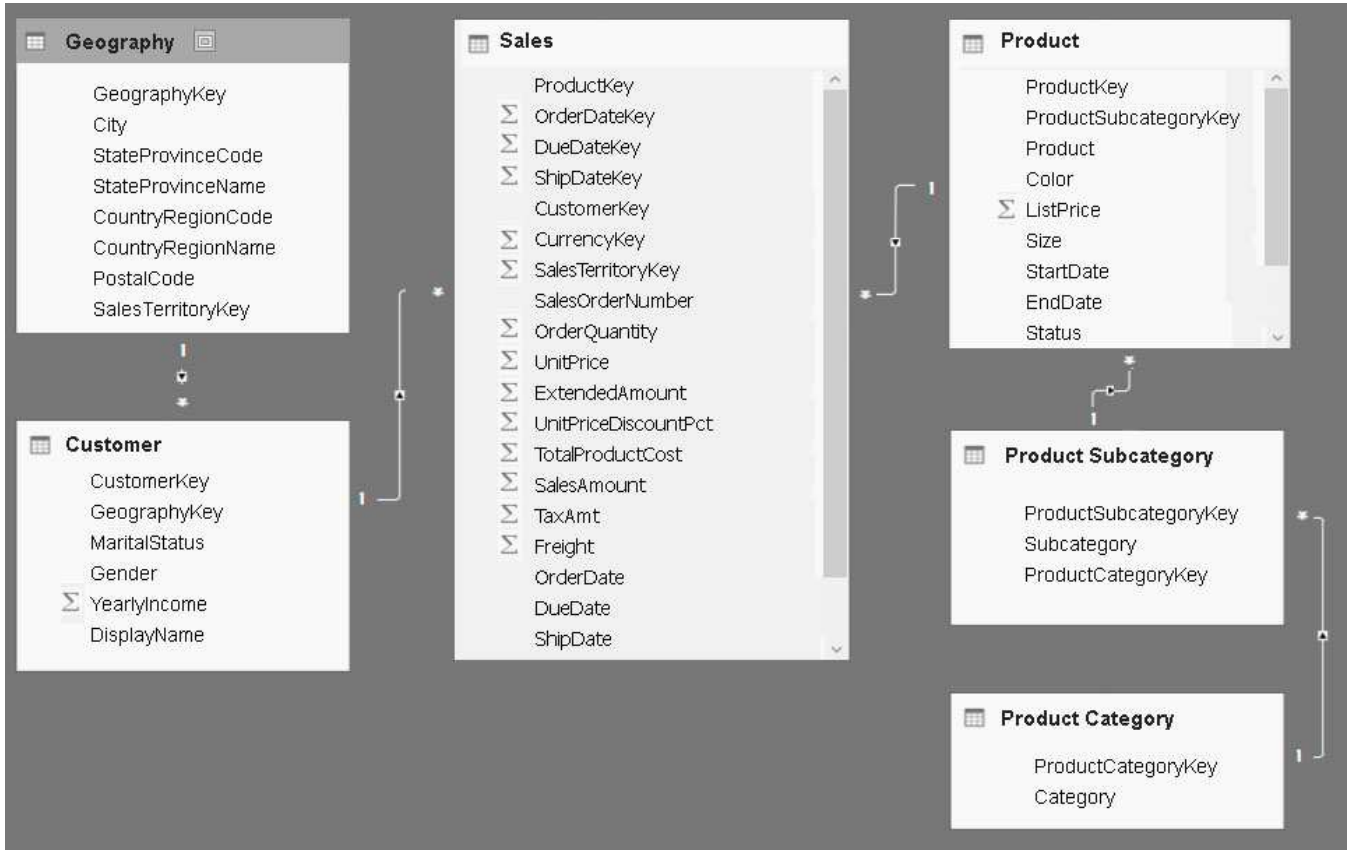
You plan to develop a Power BI model as shown in the Power BI Model exhibit. (Click the **Exhibit** button.)



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 add a measure to rank total sales by product. The results must appear as shown in the following table.

Rank	Product	SalesAmount
1	Product3	13,0000
1	Product2	13,0000
2	Product1	12,0000
3	Product5	10,000
3	Product4	10,000

Which DAX formula should you use?

A. `Product Ranking = RANKX(ALL('Product'), [SalesAmount],,Asc, Dense)`
B. `Product Ranking = RANKX(ALL('Product'), [SalesAmount],,DESC, Skip)`
C. `Product Ranking = RANKX(ALL('Product'), [SalesAmount],,DESC, Dense)`
D. `Product Ranking = RANKX(Product, [SalesAmount],,DESC, Skip)`

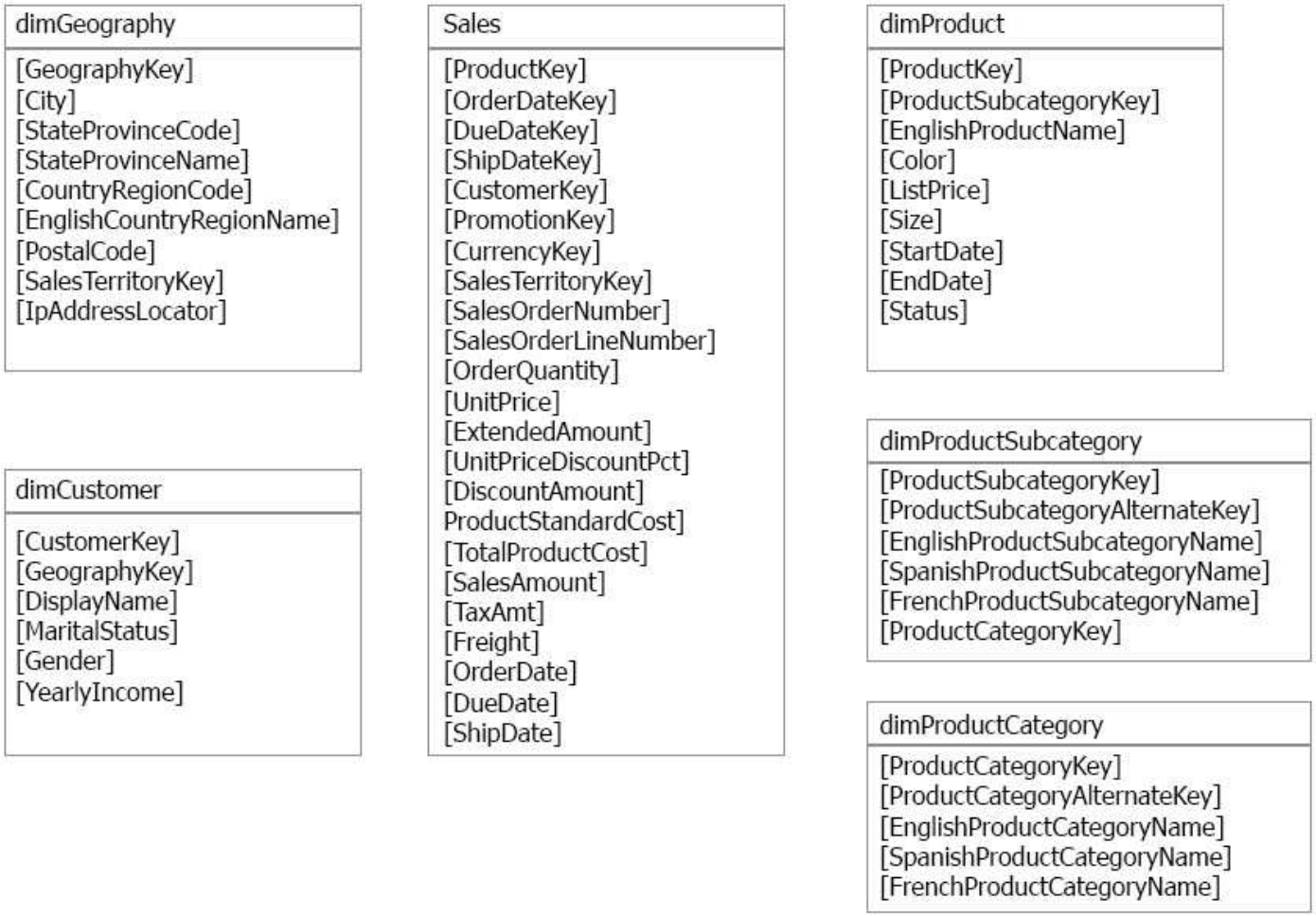
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References: https://msdn.microsoft.com/en-us/library/gg492185.aspx

QUESTION 17
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 **Exhibit** button.)



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

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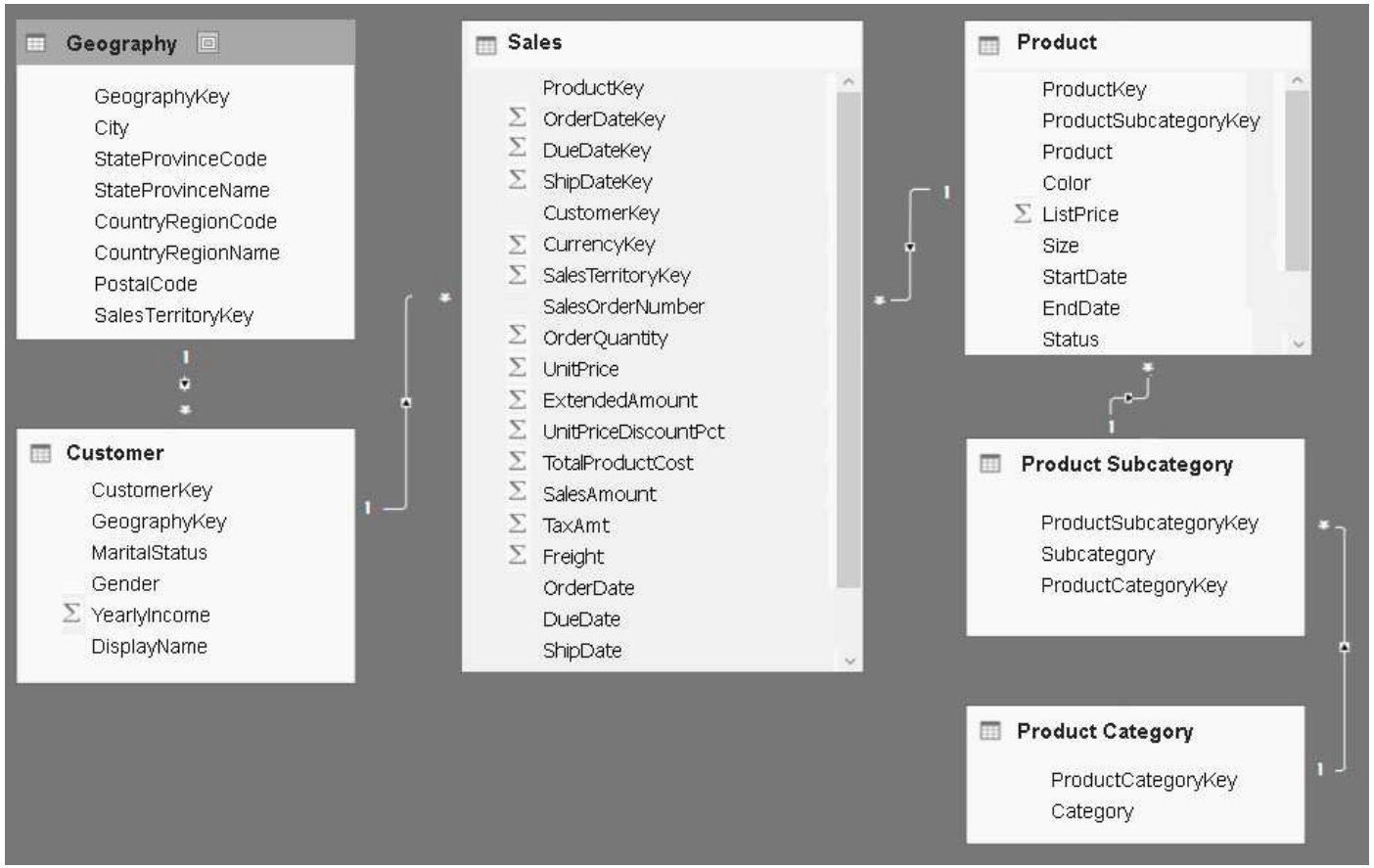


You plan to use Power BI to import data from 2013 to 2015.

Product Subcategory[Subcategory] contains NULL values.

End of Repeated Scenario.

You need to create a measure of Sales[SalesAmount] where Product[Color] is Red or Product[Size] is 50.

Which DAX formula should you use?

A.

```
[Total Sales] :=
CALCULATE (
    SUM([SalesAmount]),
    All('Product'[Color], 'Product'[Size])
)
```

B.

```
[Total Sales] :=
CALCULATE (
    SUM([SalesAmount]),
    'Product'[Color]= "Red" || 'Product'[Size] = 50
)
```

C.

```
[Total Sales] :=
CALCULATE (
    SUM([SalesAmount]),
     FILTER (
        'Product',
        'Product'[Color] = "Red" ||
        'Product'[Size] = 50
    )
)
```

D.

```
[Total Sales] :=
CALCULATE (
    SUM([SalesAmount]),
     FILTER (
        'Product'[Color] = "Red" ||
        'Product'[Size] = 50
    )
)
```

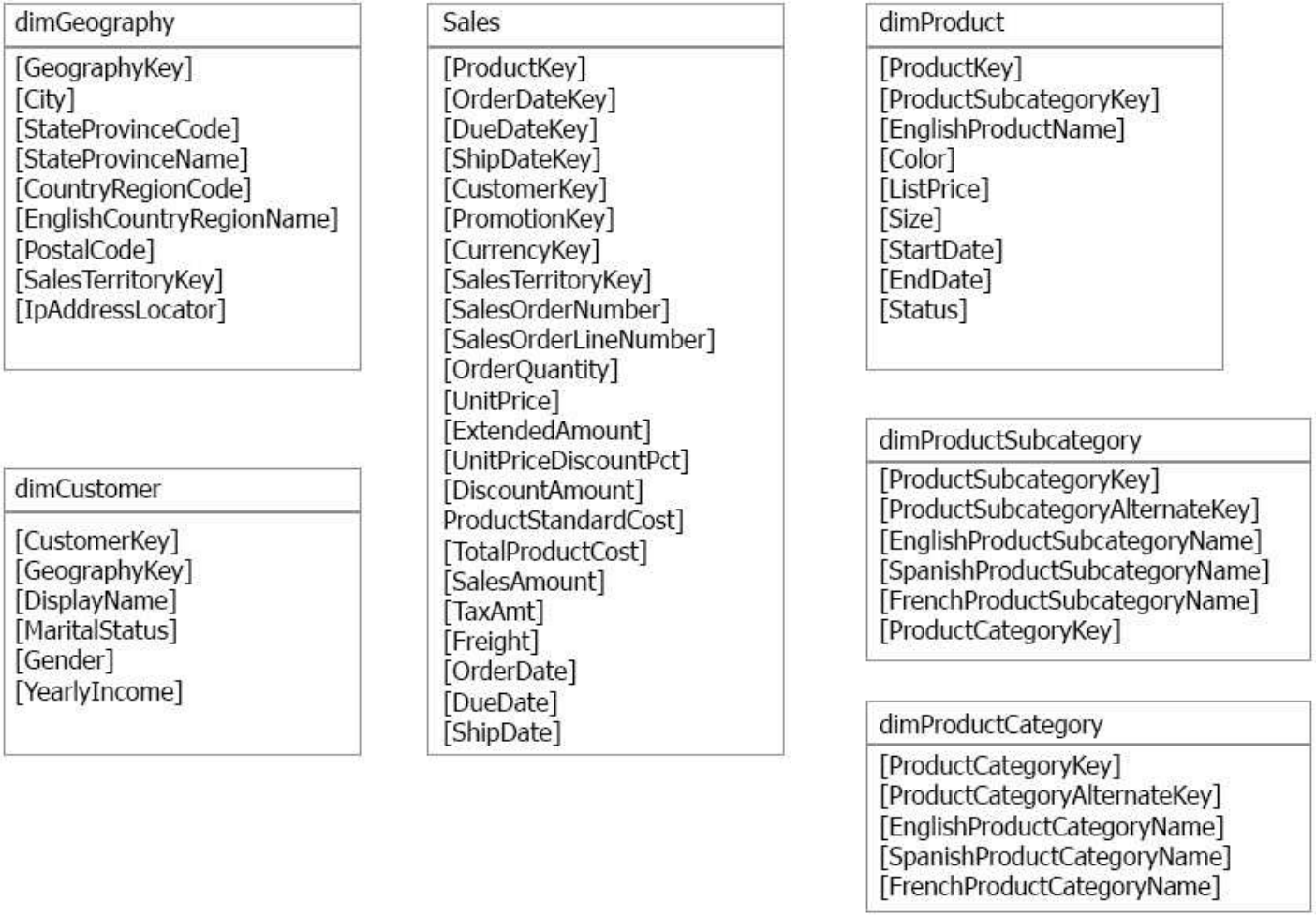
Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References: https://msdn.microsoft.com/query-bi/dax/filter-function-dax

QUESTION 18
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 **Exhibit** button.)



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

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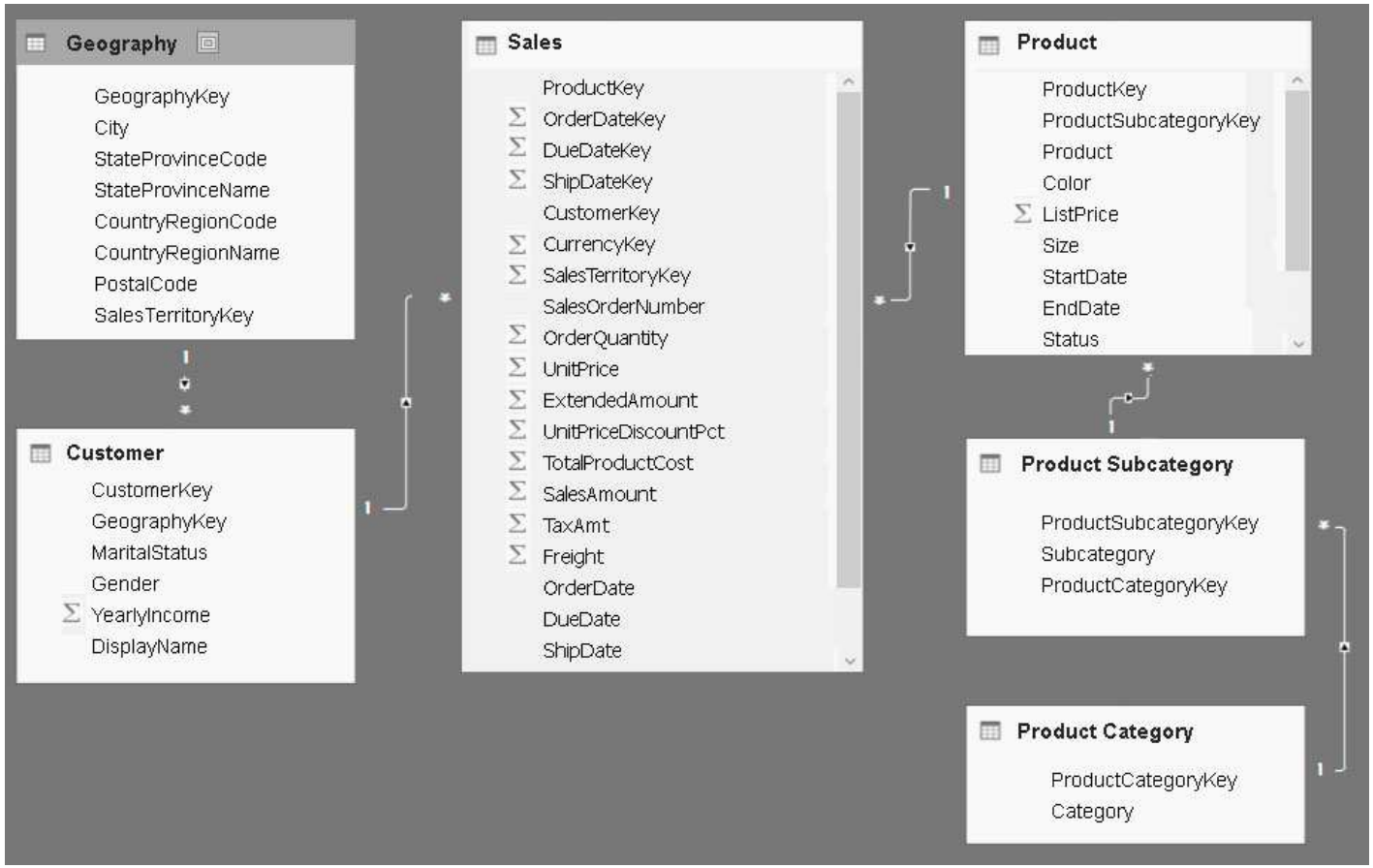

You plan to use Power BI to import data from 2013 to 2015.

Product Subcategory[Subcategory] contains NULL values.

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End of Repeated Scenario.

You implement the Power BI model.

You plan to add a table named Date to the model. The table will have columns for the date, year, month, and end of the last month, and will include data from January 1, 2013 to December 31, 2015.

The Date table and the Sales table will have a relationship.

Which DAX functions should you use to create the columns?

A. CALENDARAUTO, YEAR, MONTH, and EOMONTH
B. CALENDAR, YEAR, MONTH, and ENDOFMONTH
C. CALENDARAUTO, YEAR, MONTH, and ENDOFMONTH
D. CALENDAR, YEAR, MONTH, and EOMONTH

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
References:
https://msdn.microsoft.com/en-us/query-bi/dax/calendar-function-dax
https://msdn.microsoft.com/en-us/query-bi/dax/year-function-dax
https://msdn.microsoft.com/en-us/query-bi/dax/month-function-dax
https://msdn.microsoft.com/en-us/query-bi/dax/eomonth-function-dax

QUESTION 19
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.

Correct Answer: D
Section: (none)
Explanation

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

QUESTION 20
From Power BI Desktop, you create a query that imports the following table.

City
UK - London
France - Paris
Spain - Madrid
Canada - Montreal

You need to configure the table to appear as shown in the following table:

City
London
Paris
Madrid
Montreal

What should you do?

A. From the Format menu, click **Trim**.
B. From the Extract menu, click **Last Characters**.

C. From the Split Column menu, click **By Delimiter**.
D. From the Extract menu, click **Text After Delimiter**.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
References: https://msdn.microsoft.com/en-us/library/mt798301.aspx

QUESTION 21
You plan to create several datasets by using the Power BI service.

You have the files configured as shown in the following table.

File name	File type	Size	Location
Data 1	TSV	50 MB	Microsoft OneDrive
Data 2	XLSX	3 GB	Local
Data 3	XML	100 MB	Microsoft OneDrive for Business
Data 4	CSV	2 GB	Microsoft OneDrive
Data 5	JPG	5 MB	Local

You need to identify which files can be used as datasets.

Which two files should you identify? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Data 1
B. Data 2
C. Data 3
D. Data 4
E. Data 5

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/service-get-data

QUESTION 22
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 an app workspace that contains a report. The report contains sensitive data.

You need to ensure that you can embed the report into a custom application that will be accessed by external users. The external users will **NOT** have a Microsoft Azure Active Directory user account or Power BI licenses.

Solution: From Publish to web, generate an iFrame.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
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 an app workspace that contains a report. The report contains sensitive data.

You need to ensure that you can embed the report into a custom application that will be accessed by external users. The external users will **NOT** have a Microsoft Azure Active Directory user account or Power BI licenses.

Solution: Configure the app workspace to be read-only for members and to run in a shared capacity.

Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
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 an app workspace that contains a report. The report contains sensitive data.

You need to ensure that you can embed the report into a custom application that will be accessed by external users. The external users will **NOT** have a Microsoft Azure Active Directory user account or Power BI licenses.

Solution: Purchase Power BI Premium P1, and then configure the app workspace to run in a dedicated capacity.

Does this meet the goal?

A. Yes
B. No

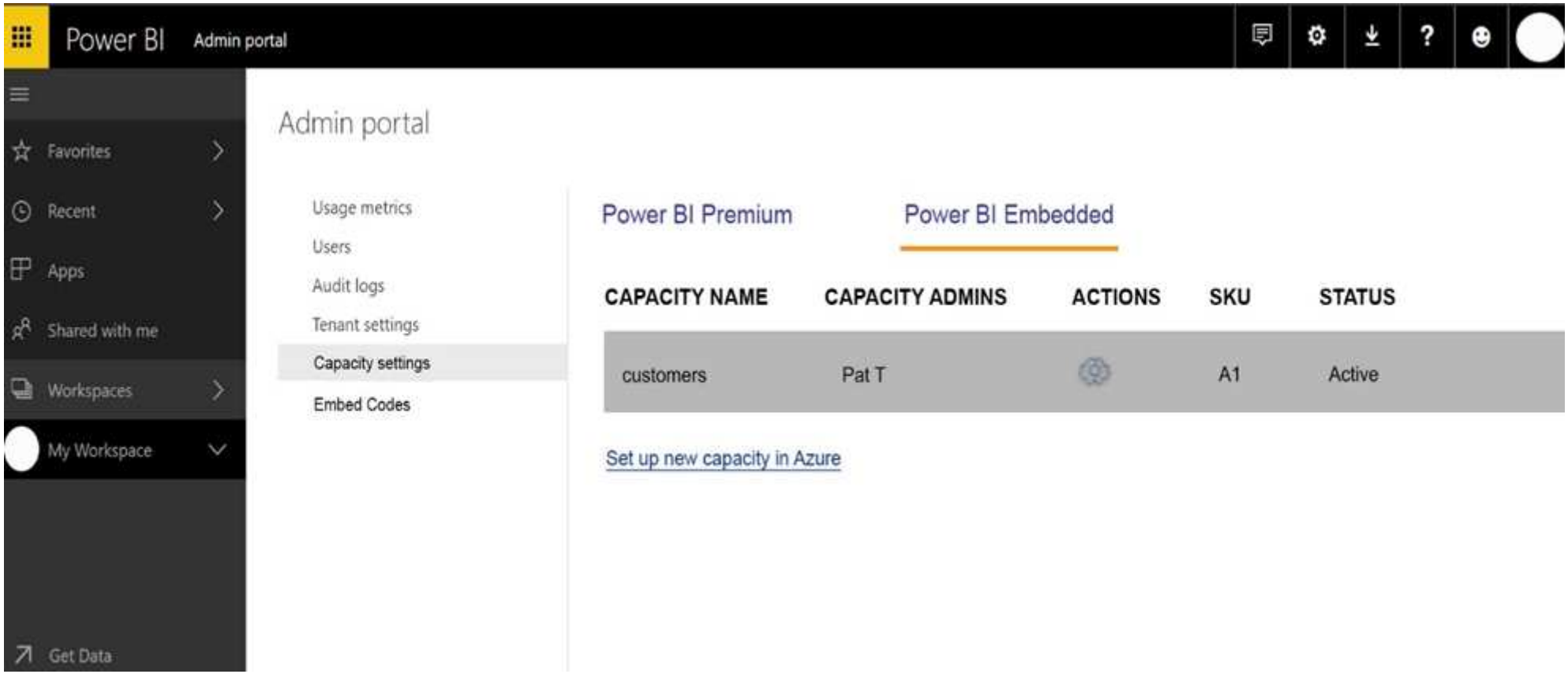
Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
References:

https://docs.microsoft.com/en-us/power-bi/developer/embed-sample-for-customers

QUESTION 25
HOTSPOT

You open the Power BI Admin portal as shown in the following graphic.

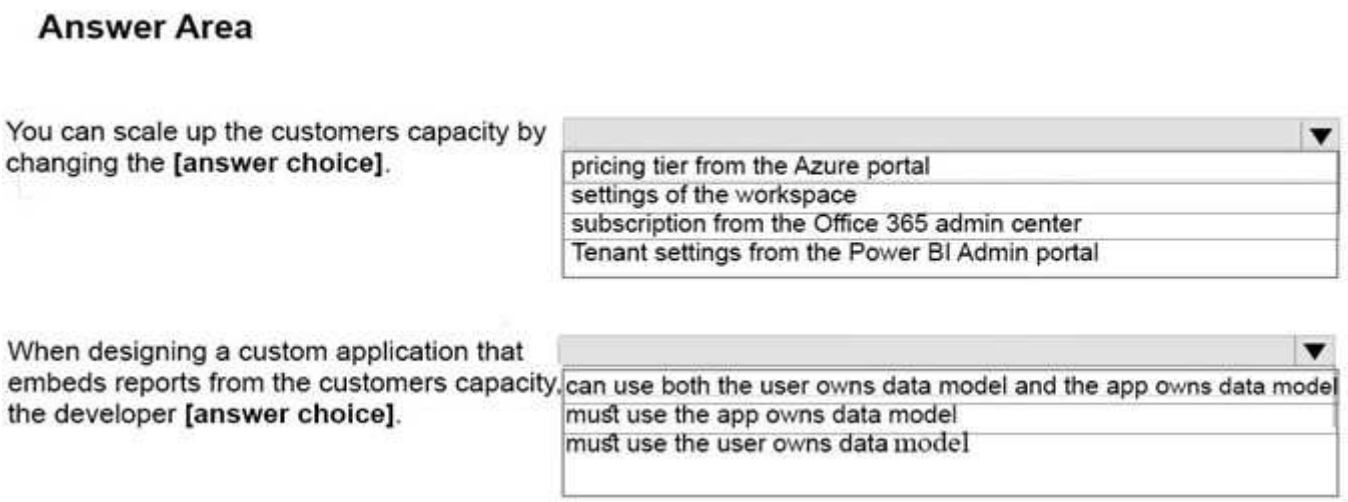


All the app workspaces use the customer's capacity.

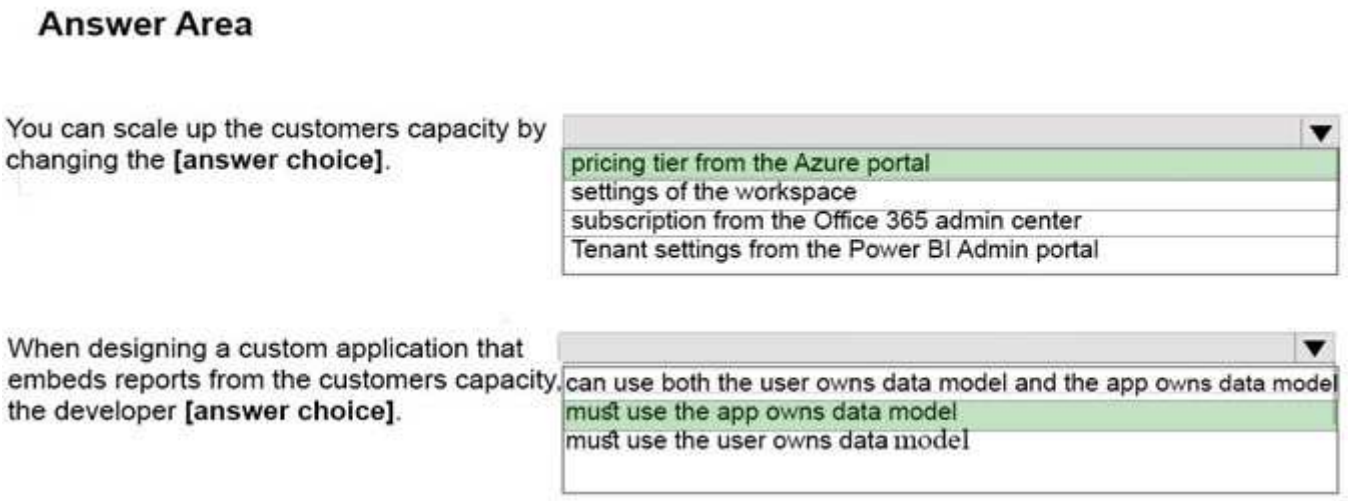
Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Section: (none)
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/azure/power-bi-embedded/scale-capacity
https://docs.microsoft.com/en-us/power-bi/developer/embed-sample-for-customers

QUESTION 26
Your company has several developers who plan to create custom solutions that will interact with the API for the Power BI service.

Which three operations can the developers achieve by using the API? Each correct answer presents a complete solution.

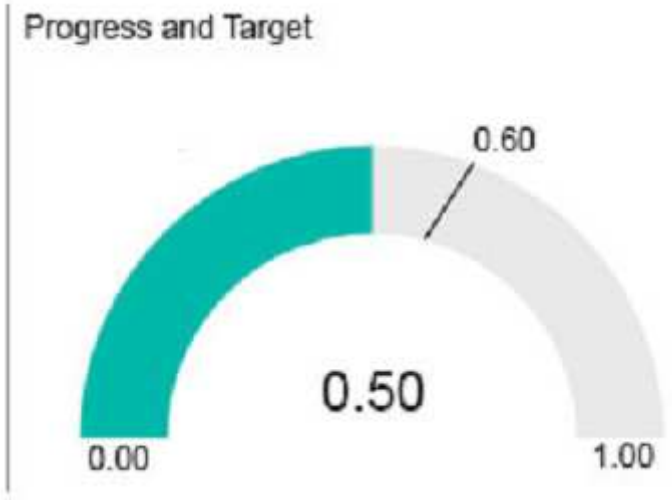
NOTE: Each correct selection is worth one point.

A. Retrieve rows from a dataset
B. Create a dataset
C. Add rows to a dataset
D. Refresh an imported dataset
E. Add a member to a row-level security role

Correct Answer: ABC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
You have the visualization shown in the following exhibit.



You need to display the values as shown in the following exhibit.

What should you do?

A. Create a calculated column that adds the % symbol to the values.

B. From the Modeling tab, change the Data Type to **Percentage**.
C. Edit the query of the data source and change the Data Type to **Percentage**.
D. Create a measure that adds the % symbol to the values,

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
You have a service published to a website.

When you connect to the website, you receive the following data.

```
<service xmlns="http://www.w3.org/2007/app"
 xmlns:atom="http://www.w3.org/2005/Atom"
 xml:base="http://data.nortwindtraders.com/Northwind/Northwind.svc/">
  <workspace>
   <atom:title>Default</atom:title>
   <collection href="Categories">
    <atom:title>Categories</atom:title>
   </collection>
   <collection href="Customers">
    <atom: title>Customers</atom:title>
   </collection>
   <collection href="Order_Details">
    <atom:title>Order_Details</atom:title>
   </collection>
  </workspace>
</service>
```

You need to create a query that retrieves the Categories data and the Customers data.

Which type of source should you use?

A. JSON

B. Text/CSV
C. OData Feed
D. XML

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
You create a KPI visualization in Power BI Desktop that uses the month as the trend axis.

You discover that the data is not sorted by month.

You need to change the sort order of the visualization.

What should you do first?

A. Convert the visualization to a different type.
B. Remove the trend axis from the visualization.
C. Modify the visual level filters.
D. Modify the drill through filters.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30
You have a Microsoft SQL Server Analysis Services (SSAS) cube that contains historical data.

In Power BI Desktop, you have the following query for the cube.

```
let
      Source = AnalysisServices.Database("msi", "Test", [TypedMeas-
ureColumns=true]),
      Model1 = Source{[Id="Model"]}[Data],
      Model2 = Model1{[Id="Model"]}[Data],
      #"Added Items" = Cube.Transform(Model2,
            {
                  ...
            }),
      #"Changed Type" = Table.TransformColumnTypes(#"Added
Items",{{"FactInternetSales.CarrierTrackingNumber", Int64.Type}}),
      #"Removed Duplicates" = Table.Distinct(#"Changed Type", {"Fac-
tInternetSales.CarrierTrackingNumber"}),
      #"Changed Type1" = Table.TransformColumnTypes(#"Removed Dupli-
cates", {{"FactInternetSales.CustomerPONumber", Int64.Type}})
in
      #"Changed Type1"
```

The query retrieves 25,499 records.

When you check the data warehouse that is the source of the cube, you discover that there are 26,423 records.

You need to ensure that the query retrieves all 26,423 records.

What should you do?

A. From Query Editor, refresh all the data.
B. Change the query to use Live connection mode.
C. Delete the Remove Duplicates step.
D. Add an Unpivot Columns step.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
You have a query that retrieves sales data. A sample of the data is shown in the following table.

Date	CustomerId	ProductId	Quantity
10/10/2016	8877	8878	5
null	8877	8879	5
null	8877	8880	5
10/11/2016	5723	1234	2
null	5723	1235	3
null	5723	1236	5
null	5723	1237	10
10/12/2016	4356	4401	11
null	5723	4908	2

You need to ensure that the values in the Date column contain a date. Null values must be replaced with the date from the previous row.

What should you click on the Transform tab in Query Editor?

A. **Forma**t, and then **Clean**
B. **Date**, and then **Earliest**
C. **Fill**, and then **Down**
D. **Replace Values**, and then **Replace Errors**

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References:
https://www.excelcampus.com/library/fill-down-blank-null-cells-power-query/

QUESTION 32
Your organization has a Microsoft Office 365 subscription.

When the users attempt to access the Power BI Service, they receive the error message shown in the exhibit. (Click the **Exhibit** button.)

You need to ensure that all the users can access the Power BI service.

What should you do first?

A. From the Microsoft Azure Active Directory admin center, assign a Power BI (free) license to each user.
B. From the Power BI Admin portal, modify the Tenant settings.
C. From Microsoft Azure PowerShell, run the `Set-MsolCompanySettings` cmdlet.
D. From the properties of each dashboard, modify the Share dashboard settings.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
You need to run the following cmdlet: Set-MsolCompanySettings -AllowAdHocSubscriptions $true

QUESTION 33
You plan to use Power BI Desktop to import 100 CSV files.

The files contain data from different stores. The files have the same structure and are stored in a network share.

You need to import the CSV files into one table. The solution must minimize administrative effort.

What should you do?

A. Add a folder data source and use the **Combine Files** command.
B. Add a folder data source and use the **Merge Queries** command.
C. Add a Microsoft Excel data source and use the **Merge Queries** command.
D. Add text/CSV data sources and use the **Append Queries** command.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/desktop-combine-binaries

QUESTION 34
You have a Power BI app named App1. The privacy for the App1 app workspace is set to Private.

A user named User1 reports that App1 does not appear in the My organization AppSource. App1 appears in the My organization AppSource for your account.

You need to ensure that User1 sees App1 from the My organization AppSource.

What should you do?

A. From the app workspace, click Update app, configure the Access setting, and then click Update app.
B. From the app workspace, share the dashboard.
C. From the app workspace settings, add a member.
D. From the app workspace, click Update app, configure the Content settings, and then click Update app.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35

You have an app workspace that contains two datasets named dataset1 and dataset2. Dataset1 connects to a Microsoft Azure SQL database. Dataset2 connects to a Microsoft Excel file stored in Microsoft OneDrive for Business.

You create a report named Report1 that uses dataset1.

You pin Report1 to a dashboard named Dashboard1.

You publish the app workspace to all the users in your organization.

You need to delete dataset2 from the app workspace.

What should you do first?

A. Delete Dashboard1.
B. Delete Report1.
C. Unpublish the app.
D. Configure the refresh settings for Dataset2.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
You create a report in the Power BI service.

You plan to provide external users with access to the report by publishing the report to a public blog.

You need to ensure that the report in the blog post will be updated as the data is refreshed.

What should you do in the Power BI service?

A. Publish the app workspace to the entire organization. In the blog post, use the URL of the workspace.
B. Share the report. In the blog post, use the URL of the dashboard.
C. Publish the report to the web. In the blog post, use the embed code URL.
D. In the blog post, use the URL of the report.

Correct Answer: C

Section: (none)
Explanation

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

QUESTION 37
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?

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
You have a Power BI model that contains the following two tables:
- Assets (AssetID, AssetName, Purchase_DateID, Value)

- Date (DateID, Date, Month, Week, Year)

The tables have a relationship. Date is marked as a date table in the Power BI model.

You need to create a measure to calculate the percentage that the total assets value increased since one year ago.

Which DAX formula should you use?

A. **(sum(Assets[Value]) – CALCULATE(sum(Assets[Value]), SAMEPERIODLASTYEAR('Date'[Date])))/CALCULATE(sum(Assets[Value])), SAMEPERIODLASTYEAR('Date'[Date])))**
B. **CALCULATE(sum(Assets[Value]), SAMEPERIODLASTYEAR('Date'[Date]))/ (sum(Assets[Value])**
C. **CALCULATE(sum(Assets[Value]),DATESYTD(('Date'[Date]))/ (sum(Assets[Value])**
D. **(sum(Assets[Value]) – CALCULATE(sum(Assets[Value]), SAMEPERIODLASTYEAR('Date'[Date]))/**

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
You need to create a dashboard in the Power BI service to display data from a PubNub source.

What should you do?

A. Add a Microsoft SQL Server Analysis Services (SSAS) data source that uses Connect live and create a report. Pin the report to a dashboard.
B. Create an app workspace and publish the workspace to a dashboard.
C. Add a Microsoft Azure SQL database data source that uses DirectQuery and create a report. Pin the report to a dashboard.
D. Add a custom streaming data tile to a dashboard.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
Your company has a custom line-of-business application named SalesApp.

The developers of SalesApp want to push data into the Power BI service to create several visualizations.

You need to ensure that the developers can push the data from SalesApp to the Power BI service.

What should you do?

A. Go to portal.azure.com and create a web app.
B. Go to dev.powerbi.com/apps and register an application.
C. Go to app.powerbi.com/admin-portal and click Publish to web.
D. Go to app.powerbi.com and create an app workspace.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
References: https://docs.microsoft.com/en-us/power-bi/developer/walkthrough-push-data-register-app-with-azure-ad

QUESTION 41
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 query for a table named Sales. Sales has a column named CustomerID. The Data Type of CustomerID is Whole Number.

You refresh the data and find several errors. You discover that new entries in the Sales table contain nonnumeric values.

You need to ensure that nonnumeric values in the CustomerID column are set to 0.

Solution: From Query Editor, select the CustomerID column. Click **Replace Errors…** and enter a value of **0**

Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
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`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
From the Home tab in Power BI Desktop, you click **Enter Data** and create a table named Sales that contains the following data.

Region	Sales
Canada	100
Canada	900
Italy	500
Spain	800
US	200
US	1000

You add Region and Sales to visualization and the visualization displays the following data.

Sales	Region
1000	Canada
500	Italy
800	Spain
1200	US

What causes the visualization to display four rows of data instead of six?

A. the Data Category of Region
B. the Default Summarization on Region
C. the Default Summarization on Sales
D. the Data Category of Sales

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
You have a table named Sales. A sample of the data in Sales is shown in the following table.

SalesOrderID (WholeNumber)	ProductName (Text)	OrderQty (Whole Number)	OrderDate (Date)	UnitPrice (Decimal Number)	TotalPrice (Decimal Number)
71774	Bike	1	May 1, 2017	356.898	356.898
71774	Car	1	May 1, 2017	356.898	356.898
71775	Train	1	May 2, 2017	1430.442	1430.442
71775	Puzzle	3	May 2, 2017	63.9	191.7
71775	Skateboard	4	May 3, 2017	32.394	129.576
71776	Doll	1	May 4, 2017	63.9	63.9

You create a stacked column chart visualization that displays ProductName by Date.

You discover that the axis for the visualization displays all the individual dates.

You need to ensure that the visualization displays ProductName by year and that you can drill down to see ProductName by week and day.

What should you do first?

A. Create a new table that has columns for the date, year, week, and day.
B. Create a new hierarchy in the Sales table.
C. Format the visualization and set the type of the X-Axis to **Categorical**.
D. Configure a visual filter for the Date column that uses an advanced filter.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
You have a Power BI report that is configured to use row-level security (RLS).

You have the following roles:

- A manager role that limits managers to see only the sales data from the stores they manage
- A region role that limits users to see only the data from their respective region

You plan to use Power BI Embedded to embed the report into an application. The application will authenticate the users.

You need to ensure that RLS is enforced when accessing the embedded report.

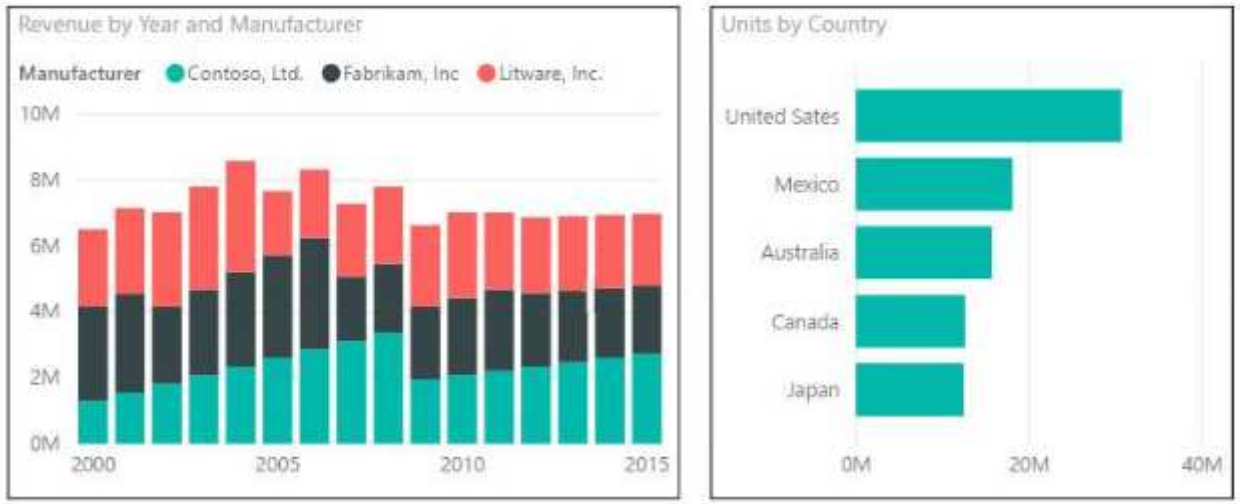
What should you do?

A. From dev.powerbi.com/apps, register the new application and enable the Read All Reports API access.
B. In the access token for the application, include the user name and the role name.
C. From dev.powerbi.com/apps, register the new application and enable the Read All Groups API access.
D. In the access token for the application, include the report URL and the Microsoft Azure Active Directory domain name.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
You are creating a report in Power BI Desktop that has two visualizations on a page as shown in the following exhibit.



You need to ensure that when you click the bar of a country, only the values for that country are shown on the Revenue by Year and Manufacturer chart.

A. Click the **Revenue by Year and Manufacturer** chart. On the Format tab, click **Edit Interactions**. On the Units by Country chart, click **Filter**.
B. Click the **Revenue by Year and Manufacturer** chart. On the Format tab, click **Edit Interactions**. On the Units by Country chart, click **Highlight**.
C. Click the **Units by Country** chart. On the Format tab, click **Edit Interactions**. On the Revenue by Year and Manufacturer chart, click **Filter**.
D. Click the **Units by Country** chart. On the Format tab, click **Edit Interactions**. On the Revenue by Year and Manufacturer chart, click **Highlight**.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/power-bi/service-reports-visual-interactions

QUESTION 47
Your company has a security policy stating that proprietary data must not be transferred over the Internet.

During a security audit, auditors discover that executives use the Power BI service for reporting.

You need to recommend a solution to ensure that the company adheres to the security policy.

What should you include in the recommendation?

A. Microsoft SQL Server column encryption
B. Microsoft Azure ExpressRoute
C. a site-to-site VPN to Microsoft Azure
D. the on-premises gateway for Power BI

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
References:
https://docs.microsoft.com/en-us/power-bi/service-admin-power-bi-expressroute

QUESTION 48
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.

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.

You are modifying the model to report on the number of orders.

You need to calculate the number of orders.

What should you do?

A. Create a calculated measure that uses the `COUNTA(Order_ID)` DAX formula.
B. Create a calculated column that uses the `COUNTA(Order_ID)` DAX formula.
C. Create a calculated column that uses the `SUM(Order_ID)` DAX formula.
D. Create a calculated measure that uses the `SUM(Order_ID)` DAX formula.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 49
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.

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.

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.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
You plan to use Power BI Desktop optimized for Power BI Report Server to create a report. The report will be published to Power BI Report Server.

You need to ensure that all the visualization in the report can be consumed by users.

Which three types of visualizations should you include in the report? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. bubble maps
B. custom visuals
C. R visuals
D. breadcrumbs
E. funnel charts

Correct Answer: ABE
Section: (none)
Explanation

Explanation/Reference:
References:

https://docs.microsoft.com/en-us/power-bi/report-server/install-powerbi-desktop

QUESTION 51
You plan to create a dashboard in the Power BI service that will retrieve data from a tabular database in Microsoft SQL Server Analysis Services (SSAS). The dashboard will be shared between the users in your organization.

The Analysis Services database has a DirectQuery connection to the SQL Server database that contains the source data.

You need to ensure that the users will see the current data when they view the dashboard.

How should you configure the connection to the data source?

A. Deploy an on-premises data gateway. Connect to the data by using the Connect live option.
B. Deploy an on-premises data gateway. Connect to the data by using the DirectQuery Data Connectivity mode.
C. Deploy an on-premises data gateway (personal mode). Connect to the data by using the Connect live option.
D. Deploy an on-premises data gateway (personal mode). Connect to the data by using the DirectQuery Data Connectivity mode.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

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