

## Exam Questions PL-300

Microsoft Power BI Data Analyst

<https://www.2passeasy.com/dumps/PL-300/>



**NEW QUESTION 1**

- (Exam Topic 1)

You need to create a relationship between the Weekly\_Returns table and the Date table to meet the reporting requirements of the regional managers. What should you do?

- A. In the Weekly\_Returns table, create a new calculated column named date-id in a format of yyyyymmdd and use the calculated column to create a relationship to the Date table.
- B. Add the Weekly\_Returns data to the Sales table by using related DAX functions.
- C. Create a new table based on the Date table where date-id is unique, and then create a many-to-many relationship to Weekly\_Return.

**Answer:** A

**Explanation:**

Scenario: Region managers require a visual to analyze weekly sales and returns. To relate the two tables we need a common column.

**NEW QUESTION 2**

- (Exam Topic 1)

You need to create a visualization to meet the reporting requirements of the sales managers.

How should you create the visualization? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Visualization type: Card  
Donut chart  
Gauge  
Key influencers  
KPI

Indicator: Date[month]  
Sales[sales\_amount]  
Sales[sales\_id]  
Targets[sales\_target]  
Weekly\_Returns[total\_returns] These are the selections for Indicator

Trend axis: Date[month]  
Sales[sales\_amount]  
Sales[sales\_id]  
Targets[sales\_target]  
Weekly\_Returns[total\_returns]

Target goals: Date[month]  
Sales[sales\_amount]  
Sales[sales\_id]  
Targets[sales\_target]  
Weekly\_Returns[total\_returns]

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Scenario: The sales managers require a visual to analyze sales performance versus sales targets. Box 1: KPI

A Key Performance Indicator (KPI) is a visual cue that communicates the amount of progress made toward a measurable goal.

Box 2: Sales[sales\_amount]

Box 3: Date[month]

Time > FiscalMonth. This value will represent the trend. Box 4: Targets[sales\_target]

Reference:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-kpi>

**NEW QUESTION 3**

- (Exam Topic 1)

You need to address the data concerns before creating the data model. What should you do in Power Query Editor?

- A. Select Column distribution.
- B. Select the sales\_amount column and apply a number filter.
- C. Select Column profile, and then select the sales\_amount column.
- D. Transform the sales\_amount column to replace negative values with 0.

**Answer:** C

**NEW QUESTION 4**

- (Exam Topic 2)

You need to recommend a strategy to consistently define the business unit, department, and product category data and make the data usable across reports. What should you recommend?

- A. Create a shared dataset for each standardized entity.
- B. Create dataflows for the standardized data and make the dataflows available for use in all imported datasets.
- C. For every report, create and use a single shared dataset that contains the standardized data.
- D. For the three entities, create exports of the data from the Power BI model to Excel and store the data in Microsoft OneDrive for others to use as a source.

**Answer: B**

**NEW QUESTION 5**

- (Exam Topic 2)

You need to grant access to the business unit analysts.

What should you configure? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

Permissions required in powerbi.com:

Access permissions to an app  
 The Member role to the workspace  
 The Viewer role to the workspace

Permissions for the profit and loss dataset:

Build  
 Delete  
 Reshare

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Box 1: The Viewer role to the workspace

The Viewer role gives a read-only experience to its users. They can view dashboards, reports, or workbooks in the workspace, but can't browse the datasets or dataflows. Use the Viewer role wherever you would previously use a classic workspace set to "Members can only view Power BI content".

Capability	Admin	Member	Contributor	Viewer
Update and delete the workspace.	X			
Add/remove people, including other admins.	X			
Add members or others with lower permissions.	X	X		
Publish and update an app.	X	X		
Share an item or share an app.	X	X		
Allow others to reshare items.	X	X		
Create, edit, and delete content in the workspace.	X	X	X	
Publish reports to the workspace, delete content.	X	X	X	
View an item.	X	X	X	X
Create a report in another workspace based on a dataset in this workspace.	X	X	X	X <sup>1</sup>
Copy a report.	X	X	X	X <sup>1</sup>

Box 2: Build

The analysts must be able to build new reports from the dataset that contains the profit and loss data.

Scenario: The reports must be made available to the board from powerbi.com.

The analysts responsible for each business unit must see all the data the board sees, except the profit and loss data, which must be restricted to only their business unit's data. The analysts must be able to build new reports from the dataset that contains the profit and loss data, but any reports that the analysts build must not be included in the quarterly reports for the board. The analysts must not be able to share the quarterly reports with anyone.

Reference:

<https://www.nickyv.com/2019/08/the-new-power-bi-workspace-viewer-role-explained.html>

**NEW QUESTION 6**

- (Exam Topic 3)

You need to design the data model and the relationships for the Customer Details worksheet and the Orders table by using Power BI. The solution must meet the report requirements.

For each of the following statement, select Yes if the statement is true, Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
A relationship must be created between the CustomerID column in the Customer Details worksheet and the CustomerID column in the Orders table.	<input type="radio"/>	<input type="radio"/>
The Data Type of the columns in the relationship between the Customer Details worksheet and the Orders table must be set to <b>Text</b> .	<input type="radio"/>	<input type="radio"/>
The Region field used to filter the Top Customers report must come from the Orders table.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A relationship must be created between the CustomerID column in the Customer Details worksheet and the CustomerID column in the Orders table.	<input checked="" type="radio"/>	<input type="radio"/>
The Data Type of the columns in the relationship between the Customer Details worksheet and the Orders table must be set to <b>Text</b> .	<input type="radio"/>	<input checked="" type="radio"/>
The Region field used to filter the Top Customers report must come from the Orders table.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

NEW QUESTION 7

- (Exam Topic 3)

You need to design the data model to meet the report requirements. What should you do in Power BI Desktop?

- A. From Power Query, use a DAX expression to add columns to the Orders table to calculate the calendar quarter of the OrderDate column, the calendar month of the OrderDate column, the calendar quarter of the ShippedDate column, and the calendar month of the ShippedDate column.
- B. From Power Query, add columns to the Orders table to calculate the calendar quarter and the calendar month of the OrderDate column.
- C. From Power BI Desktop, use the Auto date/time option when creating the reports.
- D. From Power Query, add a date table.
- E. Create an active relationship to the OrderDate column in the Orders table and an inactive relationship to the ShippedDate column in the Orders table.

Answer: B

Explanation:

Use Power Query to calculate calendar quarter and calendar month. Scenario:

- > A single dataset must support all three reports:
  - The Top Customers report will show the top 20 customers based on the highest sales amounts in a selected order month or quarter, product category, and sales region.
  - The Top Products report will show the top 20 products based on the highest sales amounts sold in a selected order month or quarter, sales region, and product category.
- > The data model must minimize the size of the dataset as much as possible, while meeting the report requirements and the technical requirements.

NEW QUESTION 8

- (Exam Topic 3)

You need to create the Top Customers report.

Which type of filter should you use, and at which level should you apply the filter? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Filter type:

Top N

Basic

Advanced

Level:

Page

Visual

Report

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface Description automatically generated with low confidence

Box 1: Top N

Scenario: The Top Customers report will show the top 20 customers based on the highest sales amounts in a selected order month or quarter, product category, and sales region.

Once you drag to SKU to Visual level filter you should get Top N option Note: The two most common filter types: automatic and manual.

Then there are more advanced filters. Box 2: Visual

Once you drag to SKU to Visual level filter you should get Top N option. Reference:

<https://powerbidocs.com/2020/01/21/power-bi-top-n-filters/>

**NEW QUESTION 9**

- (Exam Topic 3)

You need to create the dataset. Which dataset mode should you use?

- A. DirectQuery
- B. Import
- C. Live connection
- D. Composite

**Answer:** A

**NEW QUESTION 10**

- (Exam Topic 4)

You are developing a report page. Some users will navigate the report by using a keyboard, and some users will consume the report by using a screen reader.

You need to ensure that the users can consume the content on a report page in a logical order. What should you configure in Microsoft Power BI Desktop?

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

**Answer:** C

**Explanation:**

If you find yourself unable to navigate to an object or visual while using a keyboard, it may be because the report author has decided to hide that object from the tab order. Report authors commonly hide decorative objects from the tab order. If you find that you cannot tab through a report in a logical manner, you should contact the report author. Report authors can set the tab order for objects and visuals.

Reference:

<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-consuming-tools>

**NEW QUESTION 10**

- (Exam Topic 4)

You build a report about warehouse inventory data. The dataset has more than 10 million product records from 200 warehouses worldwide. You have a table named Products that contains the columns shown in the following table.

Name	Sample data
ProductDescription	Bikes > Adventure Works > Mountain Bikes > Super Carbon Bike > 26in wheels 42in frame
ProductCategory	Bikes
Manufacturer	Adventure Works
ProductSubcategory	Mountain Bikes
ProductSpecification	26in wheels 42in frame

Warehouse managers report that it is difficult to use the report because the report uses only the product name in tables and visuals. The product name is contained within the ProductDescription column and is always the fourth value.

You need to modify the report to support the warehouse managers requirement to explore inventory levels at different levels of the product hierarchy. The solution must minimize the model size.

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

Actions	Answer Area
Create a product hierarchy of Manufacturer, ProductSpecifications, ProductName, ProductSubcategory, and ProductCategory.	
Replace the use of ProductDescription in the report with the product hierarchy.	
Transform the ProductDescription column to contain only the text between the first and fourth > symbol.	
Add the product hierarchy as an extra field in visuals where ProductDescription is used.	
Add a column named ProductName that contains only the text between the third and fourth > symbol in the ProductDescription column.	
Add a column named ProductName that contains all the text after the third > symbol in the ProductDescription column.	
Create a product hierarchy of ProductCategory, ProductSubcategory, Manufacturer, ProductName, and ProductSpecifications.	

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Actions**

- 3 Replace the use of ProductDescription in the report with the product hierarchy
- Transform the ProductDescription column to contain only the text between the first and fourth > symbol
- Add the product hierarchy as an extra field in visuals where ProductDescription is used.
- 1 Add a column named ProductName that contains only the text between the third and fourth > symbol in the ProductDescription column.
- Add a column named ProductName that contains all the text after the third > symbol in the ProductDescription column.
- 2 Create a product hierarchy of ProductCategory, ProductSubcategory, Manufacturer, ProductName, and ProductSpecifications.

**NEW QUESTION 11**

- (Exam Topic 4)

Note: This question is a part of a series of questions that present 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.)

dimGeography
[GeographyKey]
[City]
[StateProvinceCode]
[StateProvinceName]
[CountryRegionCode]
[EnglishCountryRegionName]
[PostalCode]
[SalesTerritoryKey]
[IpAddressLocator]

Sales
[ProductKey]
[OrderDateKey]
[DueDateKey]
[ShipDateKey]
[CustomerKey]
[PromotionKey]
[CurrencyKey]
[SalesTerritoryKey]
[SalesOrderNumber]
[SalesOrderLineNumber]
[OrderQuantity]
[UnitPrice]
[ExtendedAmount]
[UnitPriceDiscountPct]
[DiscountAmount]
ProductStandardCost
[TotalProductCost]
[SalesAmount]
[TaxAmt]
[Freight]
[OrderDate]
[DueDate]
[ShipDate]

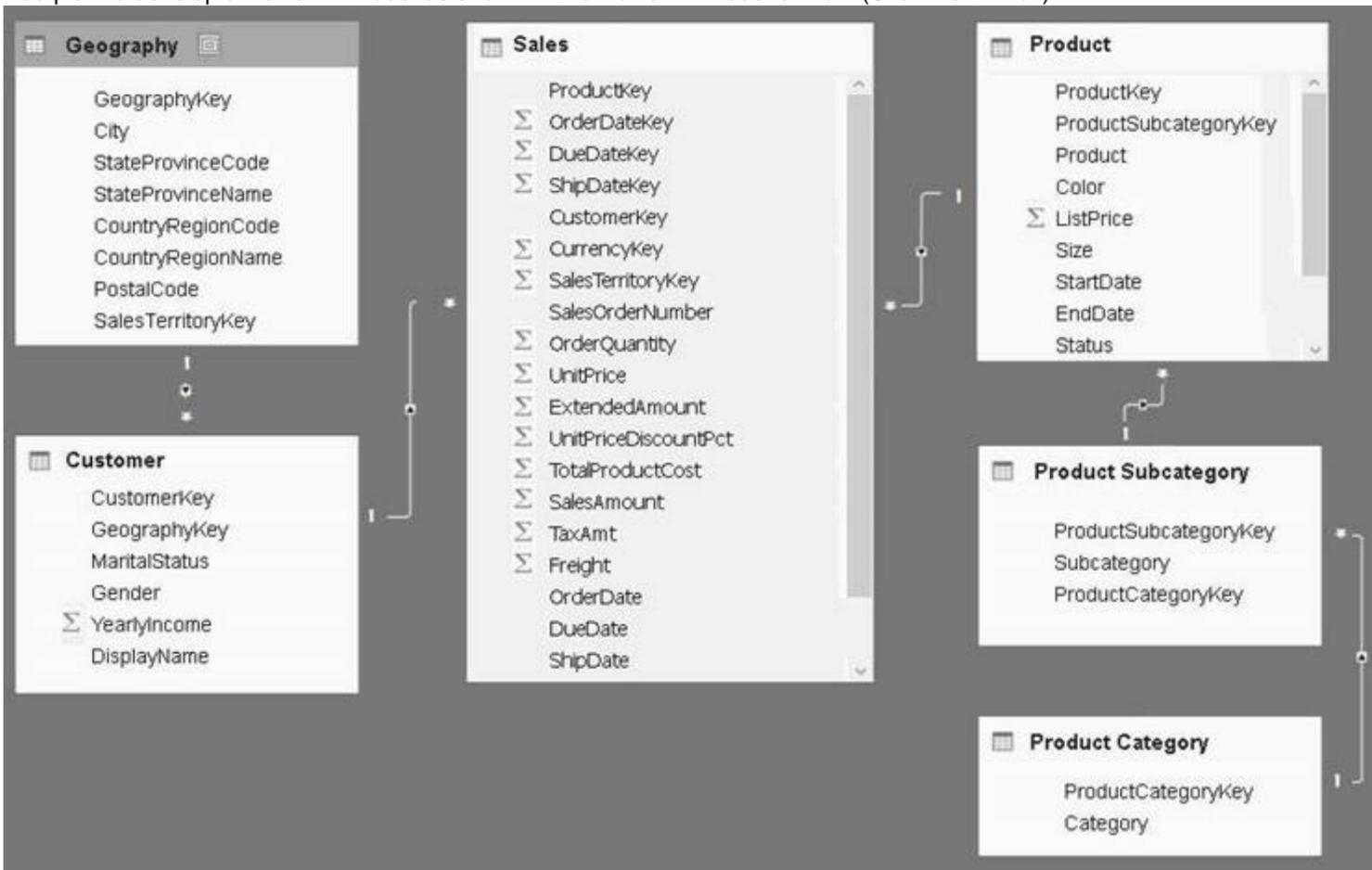
dimProduct
[ProductKey]
[ProductSubcategoryKey]
[EnglishProductName]
[Color]
[ListPrice]
[Size]
[StartDate]
[EndDate]
[Status]

dimCustomer
[CustomerKey]
[GeographyKey]
[DisplayName]
[MaritalStatus]
[Gender]
[YearlyIncome]

dimProductSubcategory
[ProductSubcategoryKey]
[ProductSubcategoryAlternateKey]
[EnglishProductSubcategoryName]
[SpanishProductSubcategoryName]
[FrenchProductSubcategoryName]
[ProductCategoryKey]

dimProductCategory
[ProductCategoryKey]
[ProductCategoryAlternateKey]
[EnglishProductCategoryName]
[SpanishProductCategoryName]
[FrenchProductCategoryName]

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



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 add another table named Territory to the model. A sample of the data is shown in the following table.

TerritoryKey	TerritoryName
1	United States
1	USA
2	Canada
2	Can
3	United Kingdom
3	UK

You need to create a relationship between the Territory table and the Sales table. Which function should you use in the query for Territory before you create the relationship?

- A. Table.RemoveMatchingRows
- B. Table.Distinct

- C. Table.InDistinct
- D. Table.ReplaceMatchingRows

Answer: B

**Explanation:**

References: <https://msdn.microsoft.com/en-us/library/mt260775.aspx>

**NEW QUESTION 16**

- (Exam Topic 4)

You have the visual shown in the Original exhibit. (Click the Original tab.)



You need to configure the visual as shown in the Modified exhibit. (Click the Modified tab.)



What should you add to the visual?

- A. a measure
- B. a trendline
- C. a forecast
- D. an Average line

Answer: C

**Explanation:**

Explore forecast results by adjusting the desired confidence interval or by adjusting outlier data to see how they affect results.

Timeline Description automatically generated with low confidence

Reference:

<https://powerbi.microsoft.com/fr-fr/blog/introducing-new-forecasting-capabilities-in-power-view-for-office-365>

**NEW QUESTION 21**

- (Exam Topic 4)

You have a Microsoft Power BI dashboard. The report used to create the dashboard uses an imported dataset from a Microsoft SQL Server data source. The dashboard is shown in the exhibit. (Click the Exhibit tab.)



What occurred at 12:03:06 PM?

- A. A user pressed F5
- B. A new transaction was added to the data source.
- C. A user added a comment to a tile.
- D. The dashboard tile cache refreshed.

**Answer: D**

**Explanation:**

Reference:  
<https://docs.microsoft.com/en-us/power-bi/connect-data/refresh-data>

**NEW QUESTION 22**

- (Exam Topic 4)

Note: This question is a part of a series of questions that present 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.)

dimGeography
[GeographyKey]
[City]
[StateProvinceCode]
[StateProvinceName]
[CountryRegionCode]
[EnglishCountryRegionName]
[PostalCode]
[SalesTerritoryKey]
[IpAddressLocator]

Sales
[ProductKey]
[OrderDateKey]
[DueDateKey]
[ShipDateKey]
[CustomerKey]
[PromotionKey]
[CurrencyKey]
[SalesTerritoryKey]
[SalesOrderNumber]
[SalesOrderLineNumber]
[OrderQuantity]
[UnitPrice]
[ExtendedAmount]
[UnitPriceDiscountPct]
[DiscountAmount]
ProductStandardCost]
[TotalProductCost]
[SalesAmount]
[TaxAmt]
[Freight]
[OrderDate]
[DueDate]
[ShipDate]

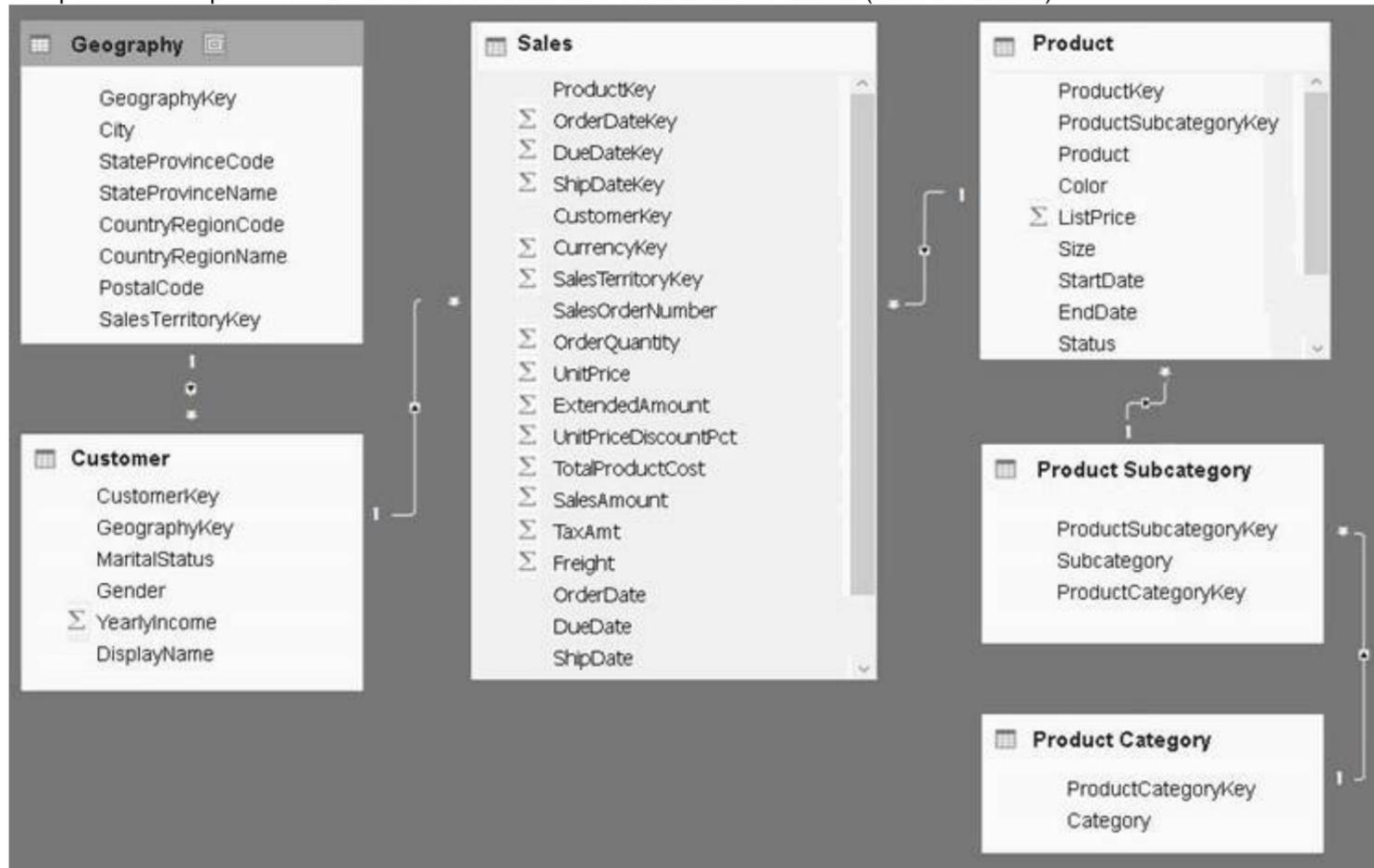
dimProduct
[ProductKey]
[ProductSubcategoryKey]
[EnglishProductName]
[Color]
[ListPrice]
[Size]
[StartDate]
[EndDate]
[Status]

dimCustomer
[CustomerKey]
[GeographyKey]
[DisplayName]
[MaritalStatus]
[Gender]
[YearlyIncome]

dimProductSubcategory
[ProductSubcategoryKey]
[ProductSubcategoryAlternateKey]
[EnglishProductSubcategoryName]
[SpanishProductSubcategoryName]
[FrenchProductSubcategoryName]
[ProductCategoryKey]

dimProductCategory
[ProductCategoryKey]
[ProductCategoryAlternateKey]
[EnglishProductCategoryName]
[SpanishProductCategoryName]
[FrenchProductCategoryName]

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



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 edit the Product Category table query to match the desired Power BI model.

How should you complete the advanced query? 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.

Values

Answer Area

- Table.Combine
- Table.RemovedColumns
- Table.RemoveRows
- Table.RenameColumns
- Table.ReorderColumns
- Table.SelectColumns

```
let
    Source= Sql.Databases ("localhost"),
    DB1= Source {[Name= "DB1"]} [Data],
    dbo_DimProductCategory= DB1{[Schema= "dbo, Item= "DimProductCategory"]} [Data],
    #"Var1" = Value
    (dbo_DimProductCategory, {"ProductCategoryAlternateKey",
    "SpanishProductCategoryName", "FrenchProductCategoryName"}),
    #"Var2" = Value
    (#"Var1", {{ "EnglishProductCategoryName", "Category"}, {"DimProductSubcategory", "Subcategory"}})
in
    #"Var2"
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Graphical user interface, application Description automatically generated

References:

<https://msdn.microsoft.com/en-us/library/mt260776.aspx> <https://msdn.microsoft.com/en-us/library/mt260808.aspx>

**NEW QUESTION 23**

- (Exam Topic 4)

You have a Power BI dashboard that monitors the quality of manufacturing processes. The dashboard contains the following elements:

- > A line chart that shows the number of defective products manufactured by day.
- > A KPI visual that shows the current daily percentage of defective products manufactured. You need to be notified when the daily percentage of defective products manufactured exceeds 3%. What should you create?

- A. a Q&A visual
- B. a subscription
- C. a smart narrative visual
- D. an alert

Answer: D

**NEW QUESTION 27**

- (Exam Topic 4)

You have an API that returns more than 100 columns. The following is a sample of column names.

- > client\_notified\_timestamp
- > client\_notified\_source
- > client\_notified\_sourceid
- > client\_notified\_value
- > client\_responded\_timestamp
- > client\_responded\_source
- > client\_responded\_sourceid
- > client\_responded\_value

You plan to include only a subset of the returned columns.

You need to remove any columns that have a suffix of sourceid.

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

NOTE: Each correct selection is worth one point.

**Answer Area**

```

let
    Source = ...,
    rawData = Source{[tableId= "clientData"]}[Data],
    removeSources = 
        Table.CombineColumn(
            Table.RemoveColumns(
                Table.FromList(
                    List.Select(
                        Table.ColumnNames(rawData),
                        List.Contains(
                            Text.EndsWith(
                                Text.From(
                                    Text.StartsWith(
                                        _, "sourceid")
                                    )
                                )
                            )
                        )
                    )
                )
            )
        )
in
    removeSources
    
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Table.RemoveColumns  
 When you do "Remove Columns" Power Query uses the Table.RemoveColumns function  
 Box 2: List.Select  
 Get a list of columns. Box 3: Text.EndsWith

**NEW QUESTION 31**

- (Exam Topic 4)

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 create a parameter named DataSourceExcel that holds the file name and location of a Microsoft Excel data source.

You need to update the query to reference the parameter instead of multiple hard-coded copies of the location within each query definition.

Solution: You add a Power Apps custom visual to the report. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 32**

- (Exam Topic 4)

You have a Power BI report that uses a dataset based on an Azure Analysis Services live connection. You need to ensure that users can use Q&A from the Power BI service for the dataset.

What should you do?

- A. From the Power BI service, add an enterprise gateway to the dataset.
- B. From Power BI Desktop, add synonyms and suggested questions.
- C. From Power BI Desktop, add a Q&A visual to the report.
- D. From the Power Bi service, select Turn on Q& A for this dataset.

**Answer:** D

**NEW QUESTION 37**

- (Exam Topic 4)

You have multiple dashboards.

You need to ensure that when users browse the available dashboards from powerbi.com. they can see which dashboards contain Personally Identifiable Information (PII). The solution must minimize configuration effort and impact on the dashboard design.

What should you use?

- A. Active Directory groups
- B. tiles

- C. data classifications
- D. comments

Answer: A

**NEW QUESTION 41**

- (Exam Topic 4)

You are creating a quick measure as shown in the following exhibit.

## Quick measures

### Calculation

Rolling average

Calculate the average of base value over a certain number of periods before and/or after each date.

[Learn more](#)

### Base value

Add data fields here

### Date

Add data fields here

### Period

Days

### Periods before

1

### Periods after

0

### Fields

Search

- Customer
- Product
- Sales
- Date
  - Gross Margin
  - Month
  - MonthNumberOfYear
  - Quarter
  - Sales\_SRC
  - Time Intelligence
- Total Cost
- Total Order Qty
- Total Sales
- Total Sales rolling average
- Unit Price
- Year

You need to create a monthly rolling average measure for Sales over time-How should you configure the quick measure calculation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Base value:   
 Total Cost  
 Total Order Qty  
 Total Sales  
 Year

Date:   
 Month  
 Total Sales  
 Year

Period:   
 Months  
 Quarters  
 Years

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: Total Sales

We select the field Total Sales Box 2: Date

Select a date field. Box 3: Month Monthly periods. Reference:

<https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-quick-measures>

#### NEW QUESTION 45

- (Exam Topic 4)

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

You have a clustered bar chart that contains a measure named Salary as the value and a field named Employee as the axis. Salary is present in the data as numerical amount representing US dollars.

You need to create a reference line to show which employees are above the median salary. Solution: You create a constant line and set the value to .5.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

Instead create a percentile line by using the Salary measure and set the percentile to 50%.

Note: The 50th percentile is also known as the median or middle value where 50 percent of observations fall below.

Reference:

[https://dash-intel.com/powerbi/statistical\\_functions\\_percentile.php](https://dash-intel.com/powerbi/statistical_functions_percentile.php)

#### NEW QUESTION 46

- (Exam Topic 4)

You import two Microsoft Excel tables named Customer and Address into Power Query. Customer contains the following columns:

- > Customer ID
- > Customer Name
- > Phone
- > Email Address
- > Address ID

Address contains the following columns:

- > Address ID
- > Address Line 1
- > Address Line 2
- > City
- > State/Region
- > Country
- > Postal Code

The Customer ID and Address ID columns represent unique rows.

You need to create a query that has one row per customer. Each row must contain City, State/Region, and Country for each customer.

What should you do?

- A. Merge the Customer and Address tables.
- B. Transpose the Customer and Address tables.
- C. Group the Customer and Address tables by the Address ID column.
- D. Append the Customer and Address tables.

**Answer:** A

#### Explanation:

There are two primary ways of combining queries: merging and appending.

- > When you have one or more columns that you'd like to add to another query, you merge the queries.
- > When you have additional rows of data that you'd like to add to an existing query, you append the query.

Reference:

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

#### NEW QUESTION 49

- (Exam Topic 4)

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

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

You have a Power BI model that contains two tables named Sales and Date. Sales contains four columns named TotalCost, DueDate, ShipDate, and OrderDate.

Date contains one column named Date.

The tables have the following relationships:

- > Sales[DueDate] and Date[Date]
- > Sales[ShipDate] and Date[Date]
- > Sales[OrderDate] and Date[Date]

The active relationship is on Sales[DueDate].

You need to create measures to count the number of orders by [ShipDate] and the orders by [OrderDate]. You must meet the goal without duplicating data or loading additional data.

Solution: You create measures that use the CALCULATE, COUNT, and USERELATIONSHIP DAX functions.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

References:

<https://docs.microsoft.com/en-us/dax/calculate-function-dax> <https://docs.microsoft.com/en-us/dax/count-function-dax> <https://docs.microsoft.com/en-us/dax/userrelationship-function-dax>

**NEW QUESTION 53**

- (Exam Topic 4)

You have a table that contains sales data and approximately 1,000 rows.

You need to identify outliers in the table. Which type of visualization should you use?

- A. area chart
- B. donut chart
- C. scatter plot
- D. pie chart

**Answer:** C

**Explanation:**

Outliers are those data points that lie outside the overall pattern of distribution & the easiest way to detect outliers is through graphs. Box plots, Scatter plots can help detect them easily.

Reference:

<https://towardsdatascience.com/this-article-is-about-identifying-outliers-through-funnel-plots-using-the-microso>

**NEW QUESTION 55**

- (Exam Topic 4)

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 create a parameter named DataSourceExcel that holds the file name and location of a Microsoft Excel data source.

You need to update the query to reference the parameter instead of multiple hard-coded copies of the location within each query definition.

Solution: You create a new query that references DataSourceExcel. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead modify the source step of the queries to use DataSourceExcel as the file path.

Note: Parameterising a Data Source could be used in many different use cases. From connecting to different data sources defined in Query Parameters to load different combinations of columns.

Reference:

<https://www.biinsight.com/power-bi-desktop-query-parameters-part-1/>

**NEW QUESTION 58**

- (Exam Topic 4)

You have a Microsoft SharePoint Online site that contains several document libraries. One of the document libraries contains manufacturing reports saved as Microsoft Excel files. All the manufacturing reports have the same data structure.

You need to load only the manufacturing reports to a table for analysis. What should you do in Microsoft Power BI Desktop?

- A. Get data from a SharePoint Online folder, enter the site URL, and then select Combine & Load.
- B. Get data from a SharePoint Online list and enter the site UR
- C. Edit the query and filter by the path to the manufacturing reports library.
- D. Get data from a SharePoint Online folder and enter the site UR
- E. Edit the query and filter by the path to the manufacturing reports library.
- F. Get data from a SharePoint Online list, enter the site URL, and then select Combine & Load.

**Answer:** C

**Explanation:**

Example:

My SharePoint site root url is <https://powerbipanama.sharepoint.com/>, but all of my files are actually in another site that starts with

<https://powerbipanama.sharepoint.com/sites/externalsales/> URL.

In order to use the correct URL, we need to be in the folder of the data that we're trying to get and check the url that our browser shows. If it has the if it starts with the format of <https://<site address>/sites/<sitename>> then we need to use that url, otherwise we use the much simpler <https://<site address>>

In my own case, I'll be using the <https://powerbipanama.sharepoint.com/sites/externalsales> url in order to connect to my site.

Reference:

<https://powerbi.microsoft.com/sv-se/blog/combining-excel-files-hosted-on-a-sharepoint-folder/>

**NEW QUESTION 62**

- (Exam Topic 4)

You have a Microsoft Power BI data model that contains three tables named Sales, Product, and Date. The Sales table has an existing measure named [Total Sales] that sums the total sales from the Sales table.

You need to write a calculation that returns the percentage of total sales that a selected ProductCategoryName value represents. The calculation must respect any slicers on ProductCategoryName and must show the percentage of visible total sales. For example, if there are four ProductCategoryName values, and a user filters one out, a table showing ProductCategoryName and the calculation must sum up to 100 percent.

How should you complete the calculation? 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.

**Values**

**Answer Area**

- ALL
- ALLSELECTED
- CALCULATE
- CALCULATETABLE
- CURRENTGROUP
- DIVIDE
- SUMMARIZE
- TOPN

```
Product Category % of Total 2 =
    [Total Sales],
    ( [Total Sales] ,
    (
    Product[ProductCategoryName] ) ) )
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Divide, Calculate, AllSelected. Reference:  
<https://docs.microsoft.com/en-us/dax/allselected-function-dax>

**NEW QUESTION 64**

- (Exam Topic 4)

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

You have several reports and dashboards in a workspace.

You need to grant all organizational users read access to a dashboard and several reports. Solution: You assign all the users the Viewer role to the workspace. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

The Viewer role gives a read-only experience to its users. They can view dashboards, reports, or workbooks in the workspace, but can't browse the datasets or dataflows. Use the Viewer role wherever you would previously use a classic workspace set to "Members can only view Power BI content".

Reference:

<https://powerbi.microsoft.com/en-us/blog/announcing-the-new-viewer-role-for-power-bi-workspaces/>

**NEW QUESTION 66**

- (Exam Topic 4)

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 create a parameter named DataSourceExcel that holds the file name and location of a Microsoft Excel data source.

You need to update the query to reference the parameter instead of multiple hard-coded copies of the location within each query definition.

Solution: In the Power Query M code, you replace references to the Excel file with DataSourceExcel. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Instead modify the source step of the queries to use DataSourceExcel as the file path.

Note: Parameterising a Data Source could be used in many different use cases. From connecting to different data sources defined in Query Parameters to load different combinations of columns.

Reference:

<https://www.biinsight.com/power-bi-desktop-query-parameters-part-1/>

**NEW QUESTION 71**

- (Exam Topic 4)

ion have a Power BI dataset that contains a table named Temperature Readings. Temperature Readings contains the columns shown in the following table.

Name	Data type	Value example
DateTime	DateTime	4-Aug-2020 13:30:01
Longitude	Decimal	10.049567988755534
Latitude	Decimal	53.462766759577057
TempCelsius	Decimal	12.5

The table has 12 million rows. All the columns are needed for analysis. You need to optimize the dataset to decrease the model size. The solution must not affect the precision of the data. What should you do?

- A. Split the DateTime column into separate date and time columns.
- B. Disable the Power Query load.
- C. Round the Longitude column two decimal places.
- D. Change the data type of the TempCelsius column to Integer

**Answer: B**

**Explanation:**

Disable Power Query load.

Power Query queries that are intended support data integration with other queries should not be loaded to the model. To avoid loading the query to the model, take care to ensure that you disable query load in these instances.

Reference:

<https://docs.microsoft.com/en-us/power-bi/guidance/import-modeling-data-reduction#disable-power-query-quer>

**NEW QUESTION 73**

- (Exam Topic 4)

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 Microsoft Excel workbook that is saved to Microsoft SharePoint Online. The workbook contains several Power View sheets.

You need to recreate the Power View sheets as reports in the Power BI service.

Solution: From the Power BI service, get the data from SharePoint Online, and then click Connect Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

We need to click "Import", not "Connect". References:

<https://docs.microsoft.com/en-us/power-bi/service-excel-workbook-files>

**NEW QUESTION 76**

- (Exam Topic 4)

You need to create a measure that will return the percentage of late orders.

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**

```
Late Orders Percent =
VAR OrderCount =
    COUNTROWS ( 'Orders' )
VAR LateOrders =
    CALCULATE (
        COUNTROWS ( 'Orders' ),
        FILTER ( 'Orders', Orders[ShippedDate] > Orders[RequiredDate] )
    )
```

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Graphical user interface Description automatically generated

**NEW QUESTION 77**

- (Exam Topic 4)

You have a Microsoft Excel workbook that contains two tables.

From Power BI, you create a dashboard that displays data from the tables. You update the tables each day.

You need to ensure that the virtualizations in the dashboard are updated daily.

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

Actions	Answer Area
For each dataset, modify the Schedule Refresh settings.	
Download and install an on-premises data gateway (personal).	
For each dataset, modify the Gateway Connection settings.	➤
Add subscriptions for the reports.	⬅
Download and install Power BI Desktop.	⬆
	⬇

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, email Description automatically generated  
 References: <https://docs.microsoft.com/en-us/power-bi/refresh-scheduled-refresh>

**NEW QUESTION 78**

- (Exam Topic 4)

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 79**

- (Exam Topic 4)

You have a report that includes a card visualization.

You need to apply the following conditional formatting to the card while minimizing design effort. For values that are greater than or equal to 100, the font of the data label must be dark red.

For values that are less than 100, the font of the data label must be dark gray. Which type of format should you use?

- A. Color scale
- B. Rules
- C. Field value

**Answer:** C

**NEW QUESTION 82**

- (Exam Topic 4)

You are building a dataset from a JSON file that contains an array of documents.

You need to import attributes as columns from all the documents in the JSON file. The solution must ensure that date attributes can be used as date hierarchies in Microsoft Power BI reports.

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

**Actions**

**Answer Area**

- Expand the columns.
- Expand the records.
- Add columns that use data type conversions.
- Set the data types.
- Convert the list to a table.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- 1- Convert list to table
- 2- Expand Column
- 3- Set Date type

Here is an example: <https://youtu.be/B4kzyxnhQfl> The definition of the function which expand columns:  
<https://docs.microsoft.com/en-us/powerquery-m/table-expandrecordcolumn>

**NEW QUESTION 86**

- (Exam Topic 4)

You have five sales regions. Each region is assigned a single salesperson.

You have an imported dataset that has a dynamic row-level security (RLS) role named Sales. The Sales role filters sales transaction data by salesperson. Salespeople must see only the data from their region.

You publish the dataset to powerbi.com, set RLS role membership, and distribute the dataset and related reports to the salespeople.

A salesperson reports that she believes she should see more data. You need to verify what data the salesperson currently sees. What should you do?

- A. Use the Test as role option to view data as the salesperson's user account.
- B. Use the Test as role option to view data as the Sales role.
- C. Instruct the salesperson to open the report in Microsoft Power BI Desktop.
- D. Filter the data in the reports to match the intended logic in the filter on the sales transaction table.

**Answer:** B

**Explanation:**

Validate the roles within Power BI Desktop

> After you've created your roles, test the results of the roles within Power BI Desktop. From the Modeling tab, select View as.

A picture containing application Description automatically generated The View as roles window appears, where you see the roles you've created. Graphical user interface, text, application Description automatically generated

> Select a role you created, and then select OK to apply that role. The report renders the data relevant for that role.

> You can also select Other user and supply a given user. Graphical user interface, application Description automatically generated

> Select OK. The report renders based on what that user can see.

Reference:

<https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls>

**NEW QUESTION 90**

- (Exam Topic 4)

You build a report to help the sales team understand its performance and the drivers of sales. The team needs to have a single visualization to identify which factors affect success. Which type of visualization should you use?

- A. Key influences
- B. Funnel chart
- C. Q&A
- D. Line and clustered column chart

**Answer:** A

**Explanation:**

The key influencers visual helps you understand the factors that drive a metric you're interested in. It analyzes your data, ranks the factors that matter, and displays them as key influencers.

The key influencers visual is a great choice if you want to:

> See which factors affect the metric being analyzed.

> Contrast the relative importance of these factors. For example, do short-term contracts have more impact on churn than long-term contracts?

Reference:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-influencers>

**NEW QUESTION 91**

- (Exam Topic 4)

You have a collection of reports for the HR department of your company.

You need to create a visualization for the HR department that shows a historic employee counts and predicts trends during the next six months.

Which type of visualization should you use?

- A. scatter chart
- B. ribbon chart
- C. line chart
- D. key influences

**Answer: C**

**Explanation:**

The best data for forecasting is time series data or uniformly increasing whole numbers. The line chart has to have only one line.

Try forecasting: Try the new forecasting capabilities of Power View today on your own data or with the sample report available as part of the Power BI report samples. To view your own data, upload a workbook with a Power View time series line chart to Power BI for Office 365.

Reference:

<https://powerbi.microsoft.com/en-us/blog/introducing-new-forecasting-capabilities-in-power-view-for-office-365>

**NEW QUESTION 94**

- (Exam Topic 4)

You create the following step by using Power Query Editor.

= Table.ReplaceValue(SalesLT\_Address,"1318","1319",Replacer.ReplaceText,{"AddressLine1"})

A row has a value of 21318 Lasalle Street in the AddressLine1 column. What will the value be when the step is applied?

- A. 1318
- B. 1319
- C. 21318 Lasalle Street
- D. 21319 Lasalle Street

**Answer: D**

**Explanation:**

Example:

Replace the text "ur" with the text "or" in the table.

```
Table.ReplaceValue(
    Table.FromRecords({
        [a = 1, b = "hello"],
        [a = 3, b = "wurld"]
    }),
    "ur",
    "or",
    Replacer.ReplaceText,
    {"b"}
)
```

a	b
1	hello
3	world

Reference:

<https://docs.microsoft.com/en-us/powerquery-m/table-replacevalue>

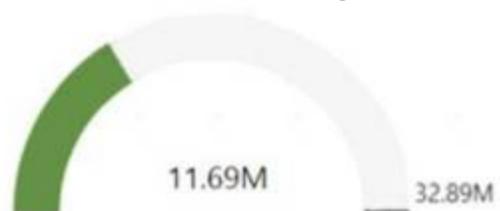
**NEW QUESTION 98**

- (Exam Topic 4)

You have a Power BI model that contains a table named Sales. Sales has the following three measures:

- > A measure named Total Sales Last Year that displays the sales from the previous calendar year. The current value is 32.89 million.
- > A measure named Total Sales This Year that displays the sales from the current calendar year. The current value is 11.69 million.
- > A measure named Total Sales Difference that uses a DAX formula of Sales[Last Year] – Sales[This Year].

You need to create the following visualization.



How should you configure the visualization? To answer, drag the appropriate measures to the correct fields. 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.

Measures

Answer Area

- Total Sales Difference
- Total Sales Last Year
- Total Sales This Year

Value:

Maximum value:

Target value:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Diagram, table Description automatically generated

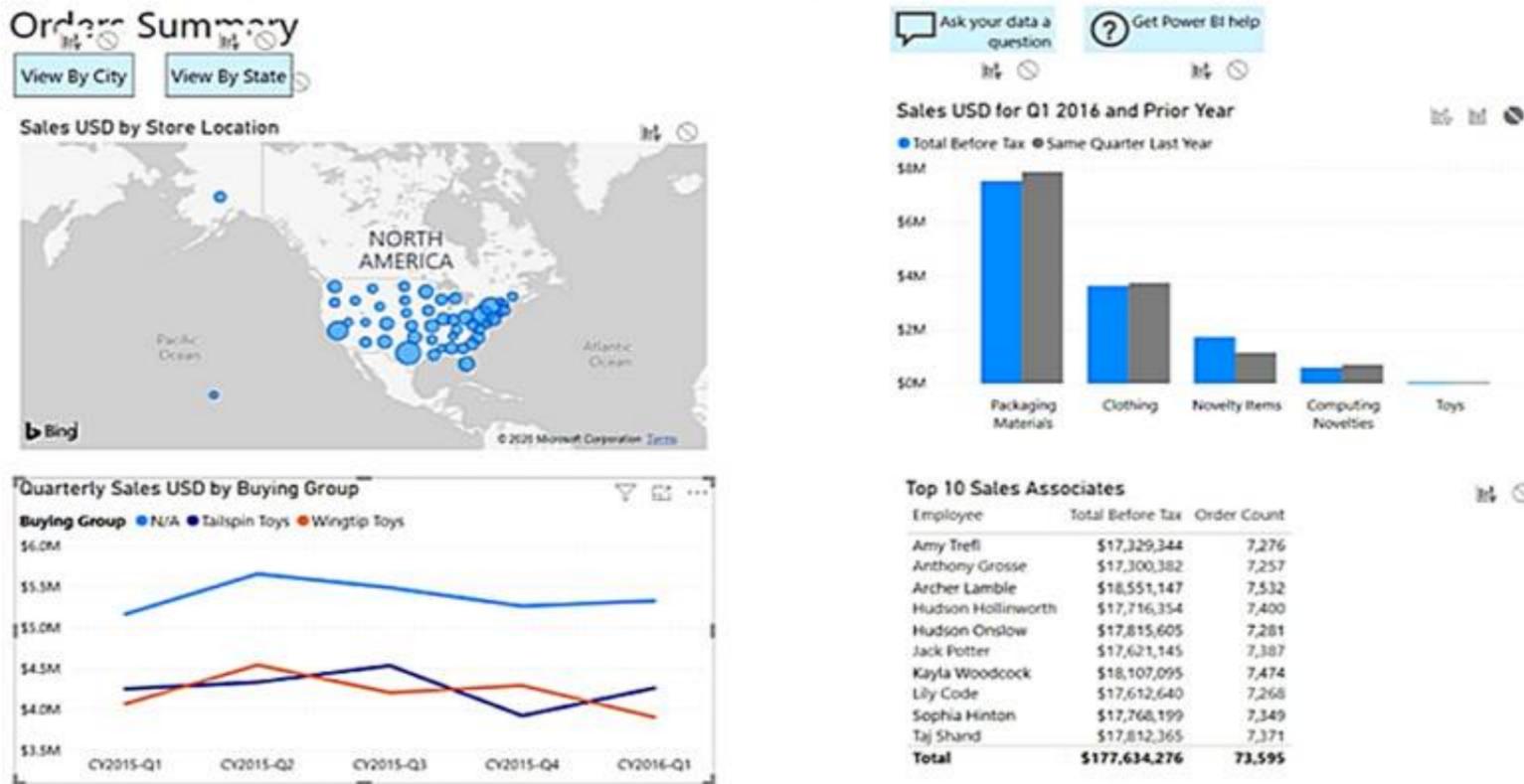
References:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-radial-gauge-charts>

NEW QUESTION 100

- (Exam Topic 4)

You have a report page that contains the visuals shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Answer Area

Selecting a quarter on the line chart will [answer choice] the clustered column chart.

cross-filter  
 cross-highlight  
 not affect

Selecting a data point on the Tailspin Toys line on the line chart will [answer choice] the map.

cross-filter  
 cross-highlight  
 not affect

- A. Mastered
- B. Not Mastered

Answer: A

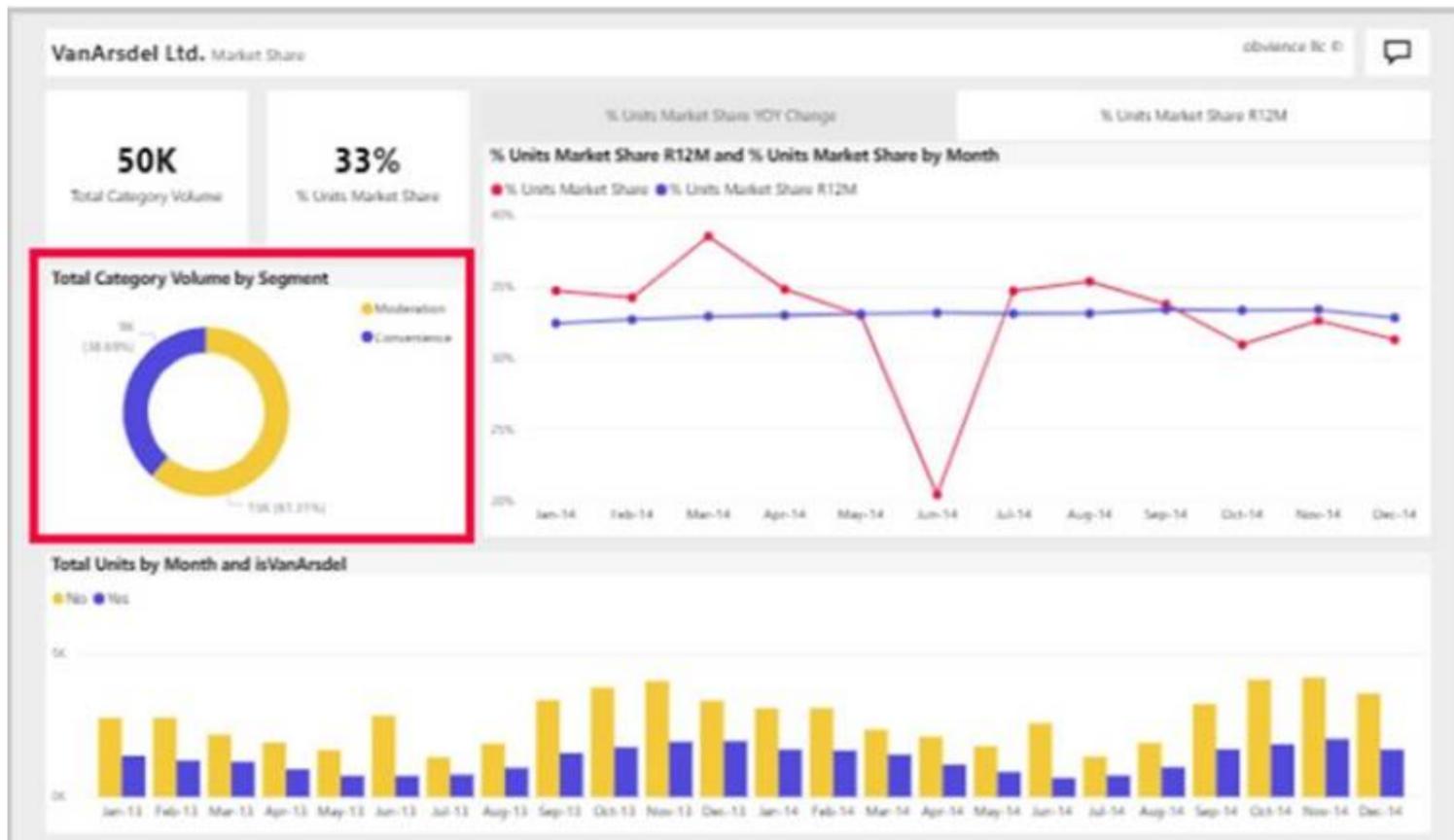
Explanation:

Box 1: cross-filter

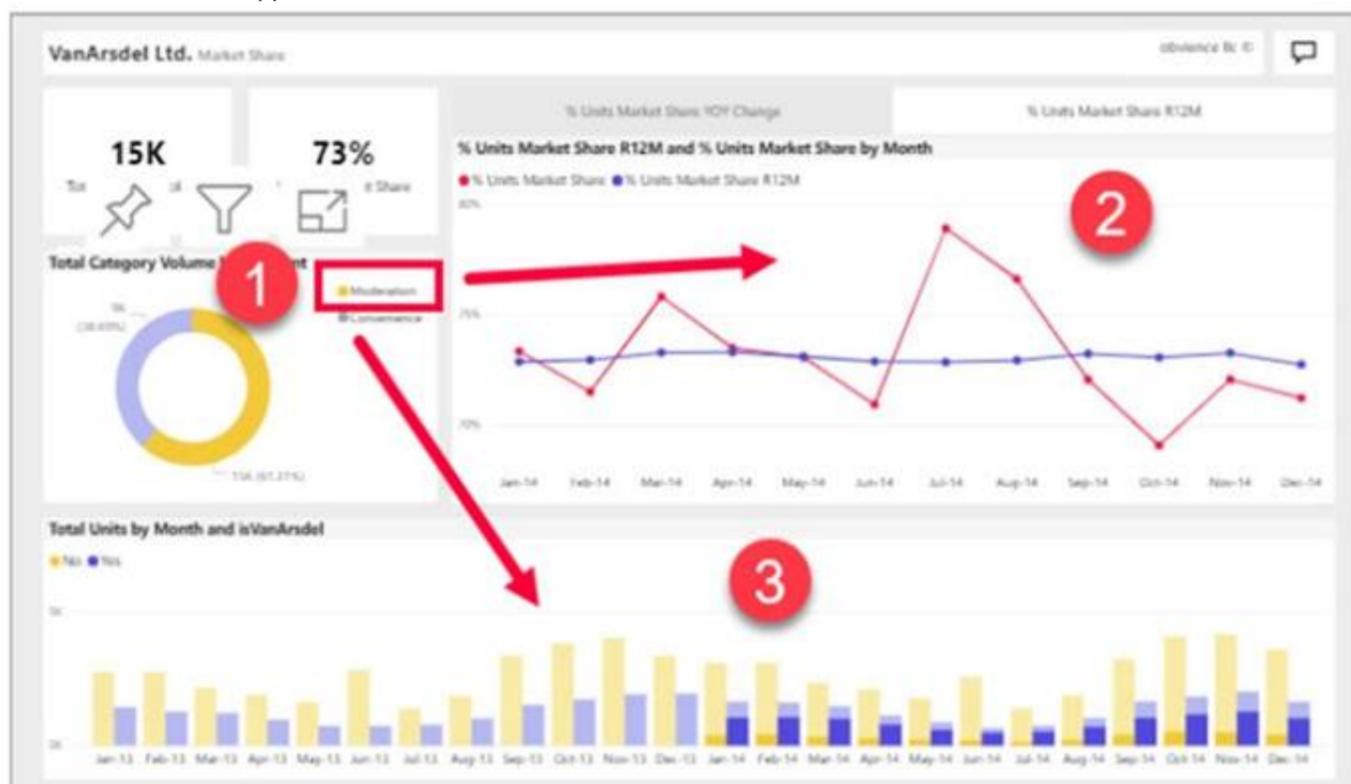
By default, selecting a data point in one visual on a report page will cross-filter or cross-highlight the other visuals on the page.

Box 2: cross-highlight Example:

By default, selecting a data point in one visual on a report page will cross-filter or cross-highlight the other visuals on the page.



\* 1. Let's see what happens when we select Moderation.



\* 2. Cross-filtering removes data that doesn't apply. Selecting Moderation in the doughnut chart cross-filters the line chart. The line chart now only displays data points for the Moderation segment.

\* 3. Cross-highlighting retains all the original data points but dims the portion that does not apply to your selection. Selecting Moderation in the doughnut chart cross-highlights the column chart. The column chart dims all the data that applies to the Convenience segment and highlights all the data that applies to the Moderation segment.

Reference:

<https://docs.microsoft.com/en-us/power-bi/consumer/end-user-interactions>

**NEW QUESTION 101**

- (Exam Topic 4)

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

MonthName	Total Sales	Sales Last Year	% Growth to Last Year
January	£559,263.79	£144,365.51	74.19%
February	£583,915.29	£215,923.28	63.02%
March	£684,091.92	£211,347.46	69.11%
April	£957,686.49	£350,270.97	63.43%
May	£841,473.26	£310,708.65	63.08%
June	£876,911.71	£298,356.83	65.98%
July	£922,410.09	£348,435.28	62.23%
August	£1,002,219.24	£388,213.68	61.26%
September	£1,152,976.22	£407,595.76	64.65%
October	£1,262,647.67	£465,583.06	63.13%
November	£555,548.44	£555,548.44	0.00%
December	£553,615.45	£553,615.45	0.00%
<b>Total</b>	<b>£9,952,759.56</b>	<b>£4,249,964.36</b>	<b>57.30%</b>

The indicator color for Total Sales will be based on % Growth to Last Year. The solution must use the existing calculations only. How should you configure the visual? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

**Answer Area**

Conditional formatting:

- Background color
- Data bars
- Font color
- Icons
- Web URL

Format by:

- Color scale
- Field value
- Rules

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Background color  
 To format the Color column based on its field values, select Conditional formatting for the Color field, and then select Background color or Font color. In the Background color or Font color dialog box, select Field value from the Format by drop-down field. Box 2: Field value  
 With conditional formatting for tables in Power BI Desktop, you can specify customized cell colors, including color gradients, based on field values.  
 Reference:  
<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-conditional-table-formatting>

**NEW QUESTION 103**

- (Exam Topic 4)  
 You have a Power BI tenant. You have reports that use financial datasets and are exported as PDF files. You need to ensure that the reports are encrypted. What should you implement?

- A. dataset certifications
- B. row-level security (RLS)
- C. sensitivity labels
- D. Microsoft Intune policies

**Answer:** C

**Explanation:**

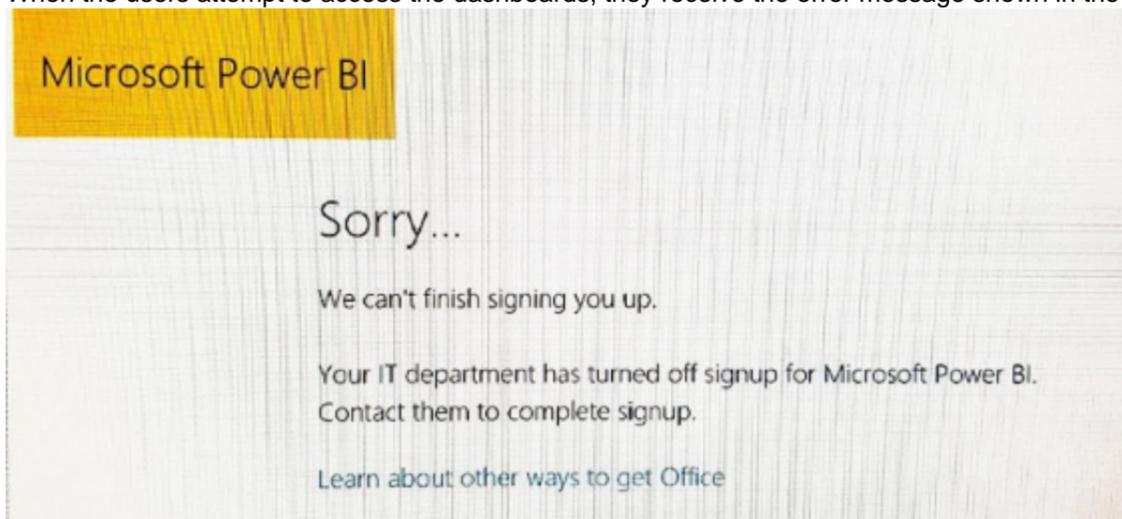
General availability of sensitivity labels in Power BI.  
 Microsoft Information Protection sensitivity labels provide a simple way for your users to classify critical content in Power BI without compromising productivity or the ability to collaborate. Sensitivity labels can be applied on datasets, reports, dashboards, and dataflows. When data is exported from Power BI to Excel, PowerPoint or PDF files, Power BI automatically applies a sensitivity label on the exported file and protects it according to the label's file encryption settings. This way your sensitive data remains protected no matter where it is.  
 Reference:  
<https://powerbi.microsoft.com/en-us/blog/announcing-power-bi-data-protection-ga-and-introducing-new-capabil>

**NEW QUESTION 105**

- (Exam Topic 4)

Your organization has a team of power users who recently created 20 Power BI dashboards. The power users share the dashboards with other users in the organization.

When the users attempt to access the dashboards, they receive the error message shown in the exhibit. (Click the Exhibit.)



You need to ensure that all the users can access the dashboards. What should you do first?

- A. From the Microsoft Office 365 Admin center, and the Power BI (free) subscription, and then assign a license to each user.
- B. From the Power BI Admin portal, modify the Privacy Settings.
- C. From the properties of each dashboard, modify the Share dashboard settings.
- D. Instruct each user to install Microsoft Office 2016.

**Answer:** A

**Explanation:**

References:

<http://www.nubo.eu/en/blog/2016/12/Enable-PowerBI-On-Office-365/>

**NEW QUESTION 107**

- (Exam Topic 4)

You are reviewing a query that produces 10,000 rows in the Power Query Editor. You need to identify whether a column contains only unique values.

Which two Data Preview options can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Column profile
- B. Column distribution
- C. Show whitespace
- D. Column quality
- E. Monospace

**Answer:** AB

**Explanation:**

B: Column distribution: This feature provides a set of visuals underneath the names of the columns that showcase the frequency and distribution of the values in each of the columns. The data in these visualizations is sorted in descending order from the value with the highest frequency.

By hovering over the distribution data in any of the columns, you get information about the overall data in the column (with distinct count and unique values).

A: Column profile: This feature provides a more in-depth look at the data in a column [compared to column distribution]. Apart from the column distribution chart, it contains a column statistics chart.

Reference:

<https://docs.microsoft.com/en-us/power-query/data-profiling-tools>

**NEW QUESTION 111**

- (Exam Topic 4)

Your company has employees in 10 states.

The company recently decided to associate each state to one of the following three regions: East, West, and North.

You have a data model that contains employee information by state. The model does NOT include region information.

You have a report that shows the employees by state.

You need to view the employees by region as quickly as possible. What should you do?

- A. Create a new aggregation that summarizes by employee.
- B. Create a new group on the state column and set the Group type to List.
- C. Create a new group on the state column and set the Group type to Bin.
- D. Create a new aggregation that summarizes by state.

**Answer:** B

**Explanation:**

<https://www.mssqltips.com/sqlservertip/4720/binning-and-grouping-data-with-power-bi/>

**NEW QUESTION 113**

- (Exam Topic 4)

Note: This question is a part of a series of questions that present 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.)

dimGeography
[GeographyKey]
[City]
[StateProvinceCode]
[StateProvinceName]
[CountryRegionCode]
[EnglishCountryRegionName]
[PostalCode]
[SalesTerritoryKey]
[IpAddressLocator]

Sales
[ProductKey]
[OrderDateKey]
[DueDateKey]
[ShipDateKey]
[CustomerKey]
[PromotionKey]
[CurrencyKey]
[SalesTerritoryKey]
[SalesOrderNumber]
[SalesOrderLineNumber]
[OrderQuantity]
[UnitPrice]
[ExtendedAmount]
[UnitPriceDiscountPct]
[DiscountAmount]
ProductStandardCost]
[TotalProductCost]
[SalesAmount]
[TaxAmt]
[Freight]
[OrderDate]
[DueDate]
[ShipDate]

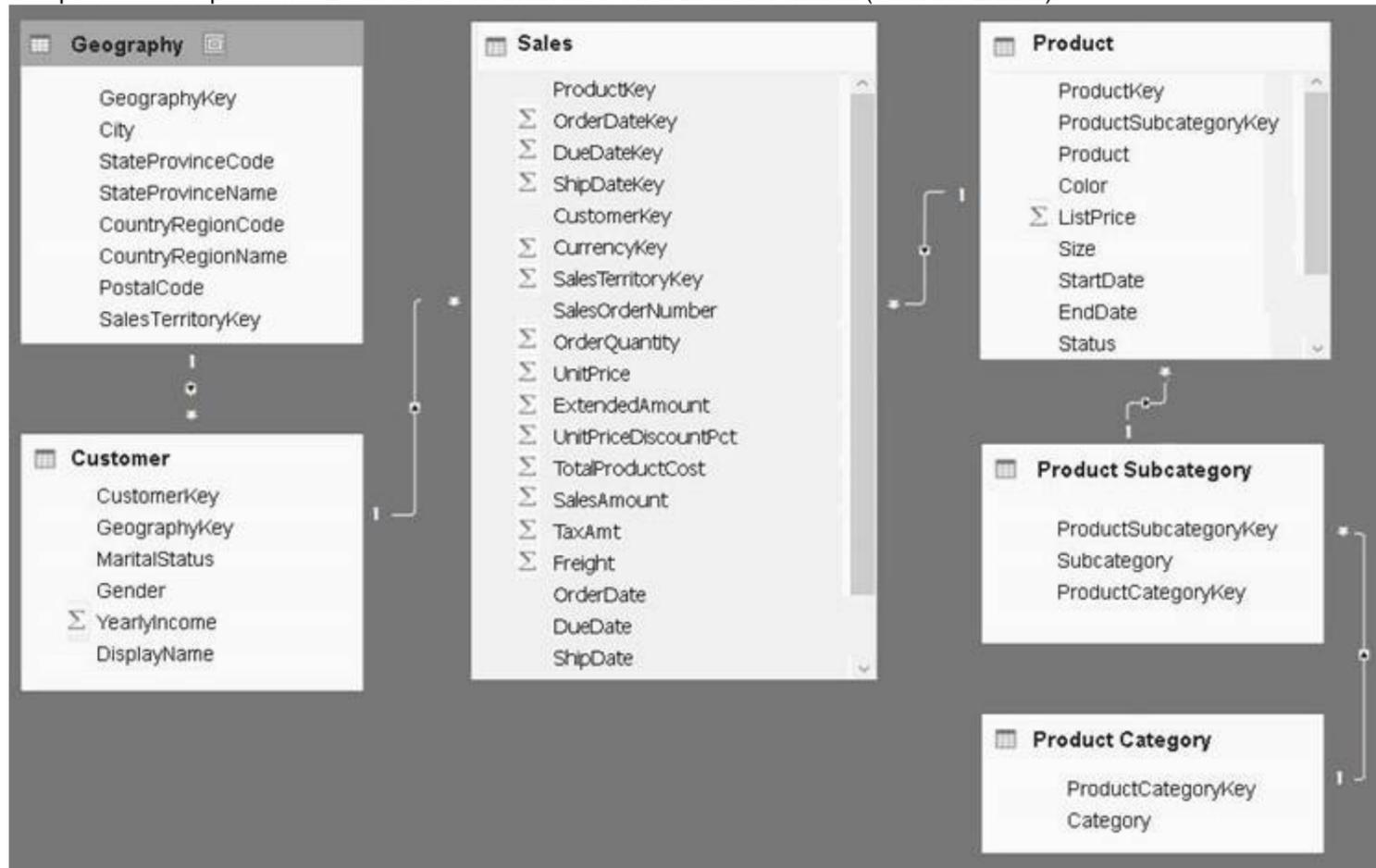
dimProduct
[ProductKey]
[ProductSubcategoryKey]
[EnglishProductName]
[Color]
[ListPrice]
[Size]
[StartDate]
[EndDate]
[Status]

dimCustomer
[CustomerKey]
[GeographyKey]
[DisplayName]
[MaritalStatus]
[Gender]
[YearlyIncome]

dimProductSubcategory
[ProductSubcategoryKey]
[ProductSubcategoryAlternateKey]
[EnglishProductSubcategoryName]
[SpanishProductSubcategoryName]
[FrenchProductSubcategoryName]
[ProductCategoryKey]

dimProductCategory
[ProductCategoryKey]
[ProductCategoryAlternateKey]
[EnglishProductCategoryName]
[SpanishProductCategoryName]
[FrenchProductCategoryName]

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



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 new column to the Product Subcategory table that uses the following formula. =if [Subcategory] =null then "NA" else [Subcategory] Which command should you use in Query Editor?

- A. Column From Examples
- B. Custom Column
- C. Invoke Custom Function
- D. Conditional Column

Answer: D

**Explanation:**

References:  
<http://community.powerbi.com/t5/Desktop/if-then-else/td-p/117999>

**NEW QUESTION 116**

- (Exam Topic 4)

You are preparing a financial report in Power BI.

You connect to the data stored in a Microsoft Excel spreadsheet by using Power Query Editor as shown in the following exhibit.

	Column1	1.2 Column2	1.2 Column3	1.2 Column4	1.2 Column5	1.2 Column6
1	Measure	2016	2017	2018	2019	2020
2	Revenue	0.5	0.6	0.55	0.61	0.42
3	Overheads	0.11	0.330410907	0.167055779	0.360178153	0.183179995
4	Cost of Goods	0.204388253	0.165848321	0.25	0.17	0.109073918

You need to prepare the data to support the following:

- > Visualizations that include all measures in the data over time
- > Year-over-year calculations for all the measures

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

**Actions**

**Answer Area**

- Rename the Attribute column as Year
- Rename the Measure column as Year
- Use the first row as headers
- Use headers as the first row
- Unpivot all the columns other than Measure
- Transpose the table
- Change the data type of the Year column to Date



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Reference:

<https://support.microsoft.com/en-us/office/unpivot-columns-power-query-0f7bad4b-9ea1-49c1-9d95-f588221c7>

**NEW QUESTION 119**

- (Exam Topic 4)

You have a power BI tenant that hosts the datasets shown in the following table.

Name	Contents	Used to generate
Sales	Sales targets Sales data Employee salary data	Daily performance reports Quarterly reports used to calculate bonuses
Operations	Environmental sensor data	Reports that show average sensor readings over time
Finance	Financial transaction data	Budget planning reports Monthly board reports

You have the following requirements:

- The export of reports that contain Personally Identifiable Information (PII) must be prevented.
- Data used for financial decisions must be reviewed and approved before use.

For each of the following statements, select Yes if the statement is true. Otherwise select No. NOTE: Each correct selection is worth one point

**Answer Area**

**Statements**

**Yes No**

- The Sales dataset requires a sensitivity label.  Yes  No
- The Operations dataset requires a sensitivity label and must be certified.  Yes  No
- The Finance dataset requires a sensitivity label and must be certified.  Yes  No

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Answer Area**

Statements	Yes	No
The Sales dataset requires a sensitivity label.	<input checked="" type="radio"/>	<input type="radio"/>
The Operations dataset requires a sensitivity label and must be certified.	<input type="radio"/>	<input checked="" type="radio"/>
The Finance dataset requires a sensitivity label and must be certified.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 120**

- (Exam Topic 4)

You receive revenue data that must be included in Microsoft Power BI reports.

You perform an initial load of the data from a Microsoft Excel source as shown in the following exhibit.

	Column1	Column2	Column3	Column4	Column5	Column6
	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%
	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%
	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%
1	Department	Product	2016	2017	2018	2019
2	Bikes	Carbon mountainbike	1002815	1006482	1007814	1007239
3	Bikes	Aluminium road bike	1007024	1009454	1005842	1007105
4	Bikes	Touring bike	1003676	1005171	1001669	1003244
5	Accessories	Bell	76713	10247	60590	25927
6	Accessories	Bottle holder	26690	29613	67955	71466
7	Accessories	Satnav	83189	40113	71684	24697
8	Accessories	Mobilephone holder	68641	80136	58099	45706

You plan to create several visuals from the data, including a visual that shows revenue split by year and product.

You need to transform the data to ensure that you can build the visuals. The solution must ensure that the columns are named appropriately for the data that they contain.

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**

- Select Use Headers as First Row.
- Select Department and Product and Unpivot Other Columns.
- Select Use First Rows as Headers.
- Rename the third column as Year and the fourth column as Revenue.
- Select Department and Product and Unpivot Columns.
- Rename the third column as Revenue and the fourth column as Year.

**Answer Area**



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Text Description automatically generated with medium confidence

Step 1: Select Use Header as First Row.

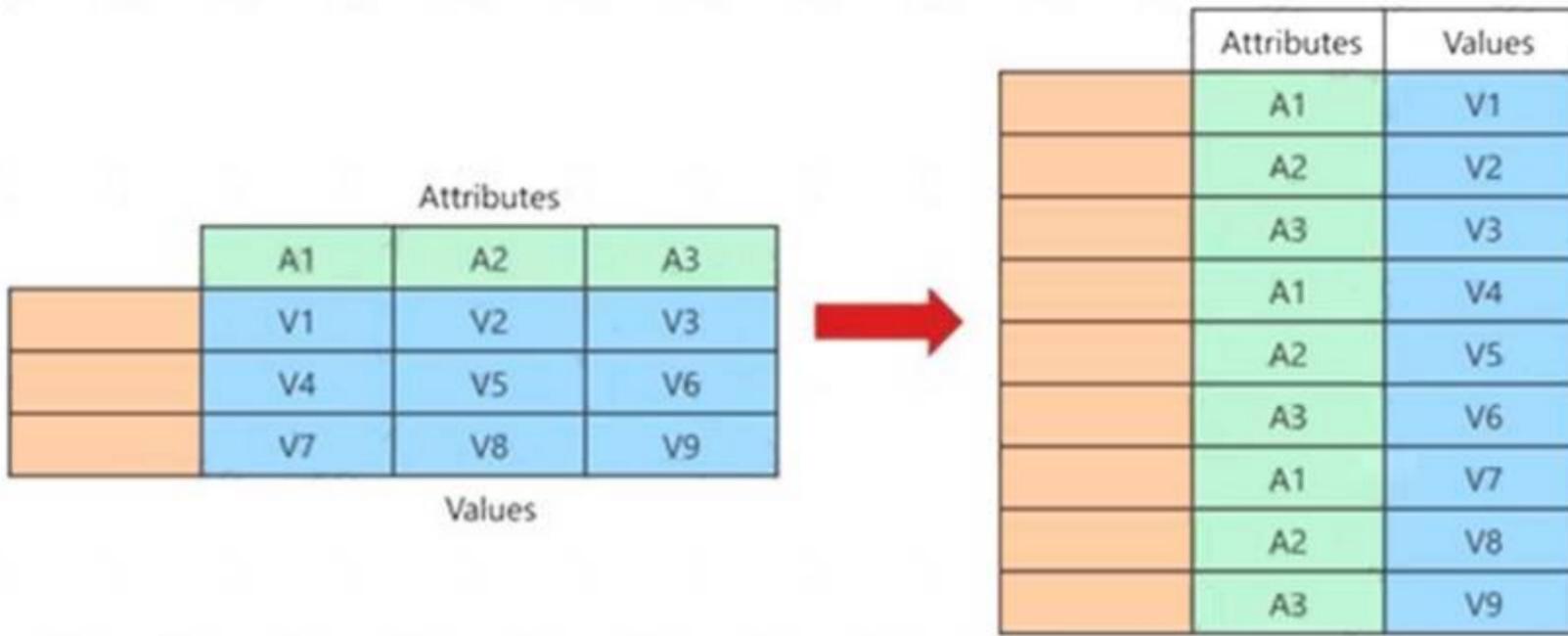
Step 2: Select Department and Product and Unpivot Other Columns

Unpivot Other Columns: This command unpivots unselected columns. Use this command in a query when not all columns are known. New columns added during a refresh operation are also unpivoted.

Step 3: Rename the Attribute column to Year and the Value column to Revenue.

You might want to unpivot data, sometimes called flattening the data, to put it in a matrix format so that all similar values are in one column. This is necessary, for example, to create a chart or a report.

Chart Description automatically generated with medium confidence



When you unpivot, you unpack the attribute-value pairs that represent an intersection point of the new columns and re-orient them into flattened columns: Values (in blue on the left) are unpivoted into a new column (in blue on the right). Attributes (in green on the left) are unpivoted into a new column (in green on the right) and duplicates are correspondingly mapped to the new Values column. Reference: <https://support.microsoft.com/en-us/office/unpivot-columns-power-query-0f7bad4b-9ea1-49c1-9d95-f588221c7>

**NEW QUESTION 125**

- (Exam Topic 4)

You have a query that returns the data shown in the following exhibit.

student	classes
1. Mike A	Math, English, Art
2. Sam B	Physics
3. Kathy S	English, Math

You need to configure the query to display the data as shown in the following exhibit.

student	classes
1. Mike A	Math
2. Mike A	English
3. Mike A	Art
4. Sam B	Physics
5. Kathy S	English
6. Kathy S	Math

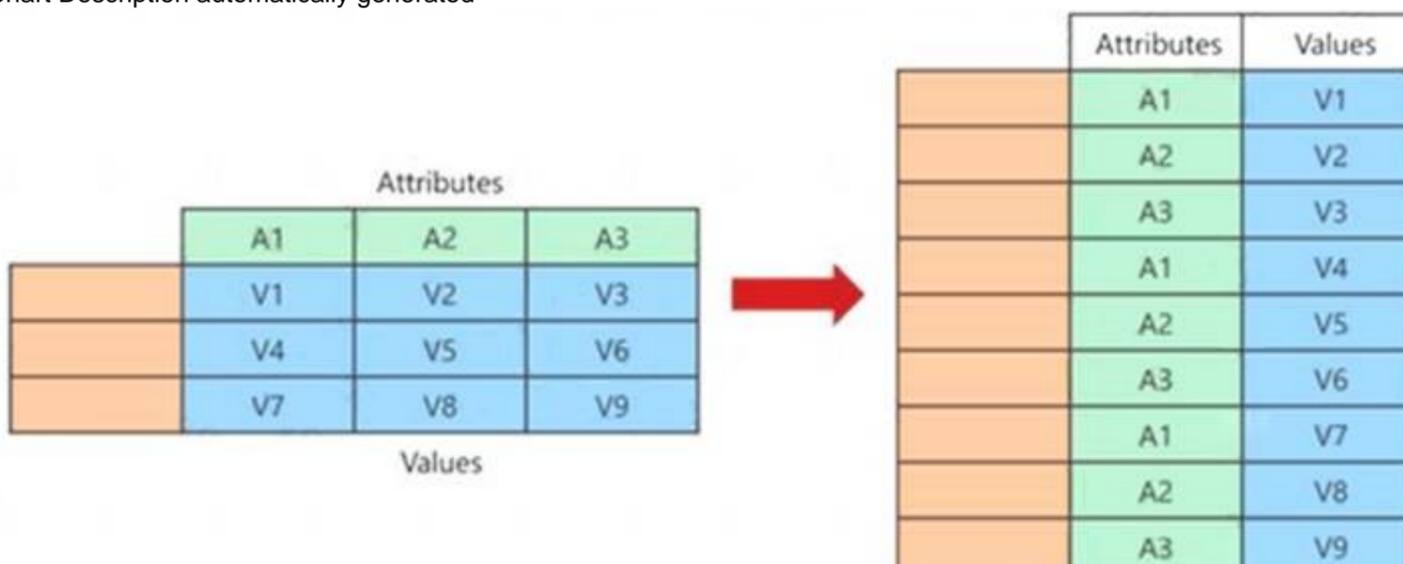
Which step should you use in the query?

- A. =Table.ExpandListColumn(Table.TransformColumnNames(Source, {"classes". Splitter.SplitTextByDelimiter(",", QuoteStyle.None), let itemType = (type nullable text) meta [Serialized.Text = true] in type {itemType}}), "classes")
- B. = Table.Unpivot(Source, {"classes"}, "Attribute", "Value")
- C. = Table.SplitColumn(Source, "classes". Splitter.SplitTextByDelimiter(",", QuoteStyle.None), {"classes.1"})
- D. = Table.SplitColumn(Source, "classes". Splitter.SplitTextByPositions({10}), {"classes.1"})

**Answer: B**

**Explanation:**

Power Query Unpivot columns: You might want to unpivot data, sometimes called flattening the data, to put it in a matrix format so that all similar values are in one column. This is necessary, for example, to create a chart or a report. Chart Description automatically generated



Note:

Syntax: Table.Unpivot(table as table, pivotColumns as list, attributeColumn as text, valueColumn as text) as table

Table.Unpivot translates a set of columns in a table into attribute-value pairs, combined with the rest of the values in each row.

Reference:

<https://docs.microsoft.com/en-us/power-query/unpivot-column> <https://docs.microsoft.com/en-us/powerquery-m/table-unpivot>

#### NEW QUESTION 128

- (Exam Topic 4)

You open a query in Power Query Editor.

You need to identify the percentage of empty values in each column as quickly as possible. Which Data Preview option should you select?

- A. Show whitespace
- B. Column profile
- C. Column distribution
- D. Column quality

**Answer:** D

#### Explanation:

Column quality: In this section, we can easily see valid, Error and Empty percentage of data values associated with the Selected table.

Note: In Power Query Editor, Under View tab in Data Preview Section we can see the following data profiling functionalities:

- > Column quality
- > Column distribution
- > Column profile

Reference:

<https://community.powerbi.com/t5/Community-Blog/Data-Profiling-in-Power-BI-Power-BI-Update-April-2019/>

#### NEW QUESTION 133

- (Exam Topic 4)

You have a report that contains three pages. One of the pages contains a KPI visualization. You need to filter all the visualizations in the report except for the KPI visualization. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Add the same slicer to each page and configure Sync slicers.
- B. Edit the interactions of the KPI visualization.
- C. Configure a page-level filter.
- D. Edit the interactions of the slicer that is on the same page as the KPI visualization.
- E. Configure a report-level filter.

**Answer:** AD

#### Explanation:

Slicers are another way of filtering. They narrow the portion of the dataset that is shown in the other report visualizations.

By default, slicers on report pages affect all the other visualizations on that page, including each other. Use visual interactions to exclude some page visualizations from being affected by others.

Reference:

<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-slicers>

#### NEW QUESTION 134

- (Exam Topic 4)

You have a Microsoft Power BI report. The size of PBIX file is 550 MB. The report is accessed by using an App workspace in shared capacity of powerbi.com.

The report uses an imported dataset that contains one fact table. The fact table contains 12 million rows. The dataset is scheduled to refresh twice a day at 08:00 and 17:00.

The report is a single page that contains 15 AppSource visuals and 10 default visuals.

Users say that the report is slow to load the visuals when they access and interact with the report. You need to recommend a solution to improve the performance of the report.

What should you recommend?

- A. Change any DAX measures to use iterator functions.
- B. Replace the default visuals with AppSource visuals.
- C. Change the imported dataset to DirectQuery.
- D. Remove unused columns from tables in the data model.

**Answer:** C

#### Explanation:

DirectQuery: No data is imported or copied into Power BI Desktop.

Import: The selected tables and columns are imported into Power BI Desktop. As you create or interact with a visualization, Power BI Desktop uses the imported data.

Benefits of using DirectQuery

There are a few benefits to using DirectQuery:

- > DirectQuery lets you build visualizations over very large datasets, where it would otherwise be unfeasible to first import all the data with pre-aggregation.
- > Underlying data changes can require a refresh of data. For some reports, the need to display current data can require large data transfers, making reimporting data unfeasible. By contrast, DirectQuery reports always use current data.

The 1-GB dataset limitation doesn't apply to DirectQuery. Reference:

<https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-use-directquery>

#### NEW QUESTION 135

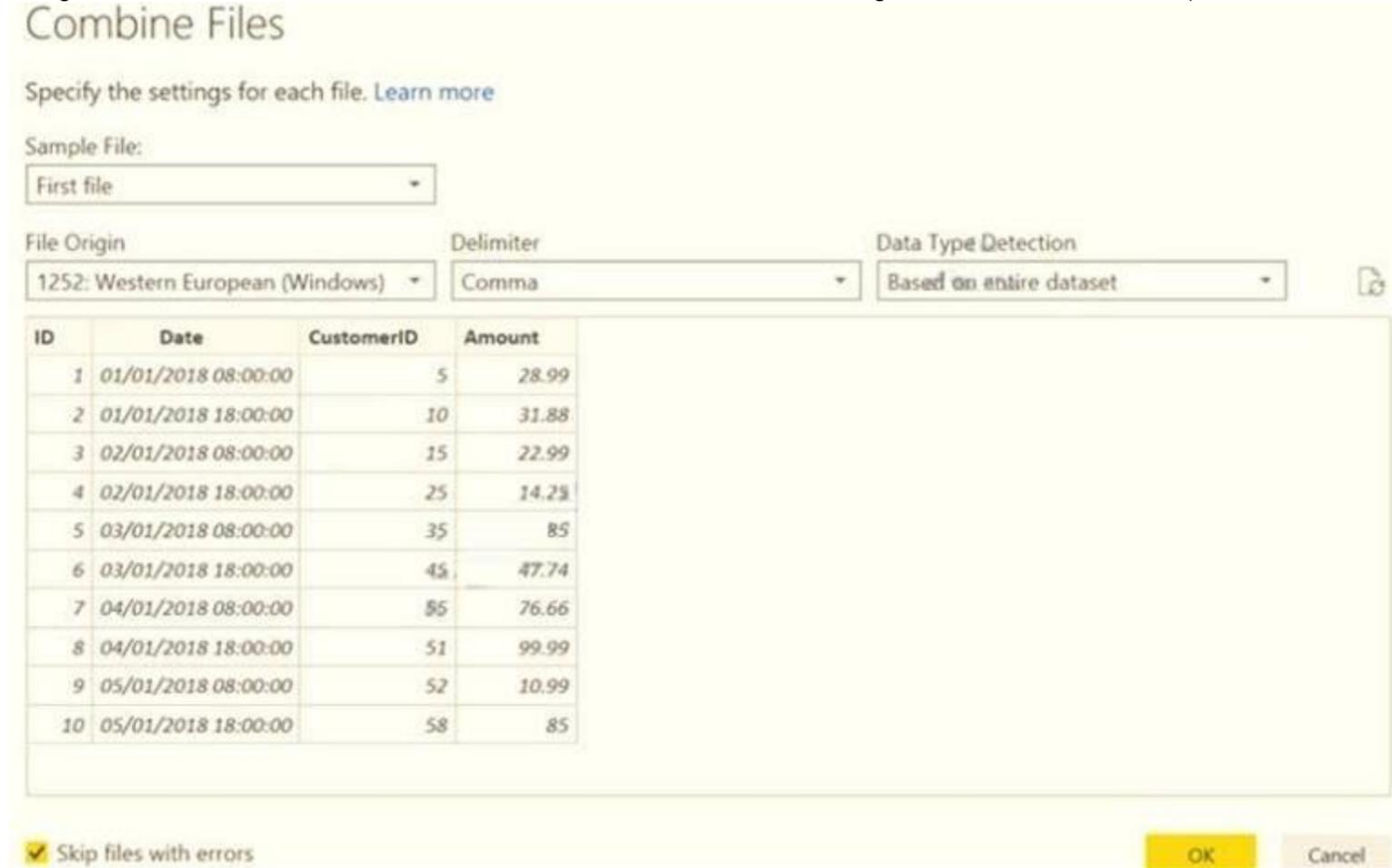
- (Exam Topic 4)

You have a folder of monthly transaction extracts.

You plan to create a report to analyze the transaction data.

You receive the following email message: "Hi. I've put 24 files of monthly transaction data onto the shared drive. File Transactions201901.csv through Transactions201912.csv have the latest set of columns, but files Transactions201801.csv to Transactions201812.csv have an older layout without the extra fields needed for analysis. Each file contains 10 to 50 transactions."

You get data from the folder and select Combine & Load. The Combine Files dialog box is shown in the exhibit. (Click the Exhibit tab.)



For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Answer Area	Statements	Yes	No
	The resulting query will contain all the columns from the 2018 transactions.	<input type="radio"/>	<input type="radio"/>
	The resulting query will contain all the columns from the 2019 transactions.	<input type="radio"/>	<input type="radio"/>
	Setting Data Type Detection to <b>Based on first 200 rows</b> will improve import times.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: Yes

The four columns used in the 2018 transactions are already displayed. Box 2: Yes

The columns used are based on the entire dataset. The additional columns in the 2019 files will be detected. Box 3: Yes

Note: Under the hood, Power BI will automatically detect which delimiter to use, and may even promote the first row as headers. You can manually change the delimiter, or define how Power BI should handle data types. You can set it to automatically detect data types based on first 200 rows, or the entire dataset or you can even opt out the detection of data types.

**NEW QUESTION 139**

- (Exam Topic 4)

You are using existing reports to build a dashboard that will be viewed frequently in portrait mode on mobile phones.

You need to build the dashboard.

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

**Actions**

**Answer Area**

- Pin items from the reports to the dashboard.
- Rearrange, resize, or remove items from the phone view.
- Change the dashboard view to **Phone view**.
- Open the dashboard.
- Create a phone layout for the existing reports.



- A. Mastered
- B. Not Mastered

**Answer:** A

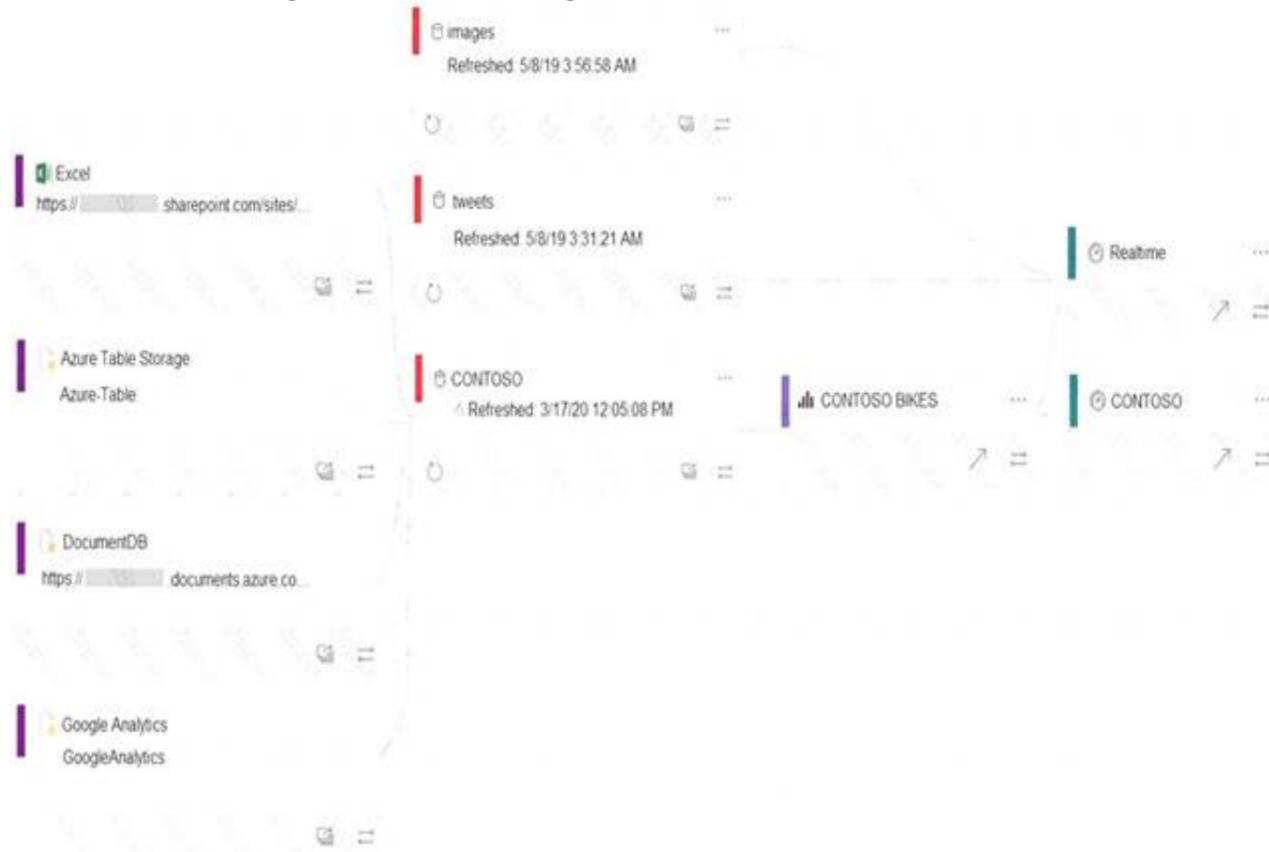
**Explanation:**

- \* 1. Pin items from report to Dashboard.
- \* 2. Open Dashboard.
- \* 3. Change the dashboard view to Phone view.
- \* 4. Rearrange, resize the visuals.

**NEW QUESTION 142**

- (Exam Topic 4)

You have the data lineage shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.  
 NOTE: Each correct selection is worth one point.

The CONTOSO dataset is consumed directly by the

▼

CONTOSO BIKES report

CONTOSO dashboard

Realtime dashboard

The Realtime dashboard depends on

▼

one dataset

two datasets

three datasets

four datasets

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Text, table Description automatically generated with medium confidence

Box 1: CONTOSO BIKES report Box 2: three datasets

Images, tweets and the Contoso datasets.

**NEW QUESTION 147**

- (Exam Topic 4)

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 are modeling data by using Microsoft Power BI. Part of the data model is a large Microsoft SQL Server table named Order that has more than 100 million records.

During the development process, you need to import a sample of the data from the Order table. Solution: You write a DAX expression that uses the FILTER function.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

The filter is applied after the data is imported. Instead add a WHERE clause to the SQL statement. Reference:

<https://docs.microsoft.com/en-us/power-bi/connect-data/service-gateway-sql-tutorial>

**NEW QUESTION 150**

- (Exam Topic 4)

You have a collection of reports for the HR department of your company. The datasets use row-level security (RLS). The company has multiple sales regions that each has an HR manager. You need to ensure that the HR managers can interact with the data from their region only. The HR managers must be prevented from changing the layout of the reports. How should you provision access to the reports for the HR managers?

- A. Create a new workspace, copy the datasets and reports, and add the HR managers as members of the workspace.
- B. Publish the reports to a different workspace other than the one hosting the datasets.
- C. Publish the reports in an app and grant the HR managers access permission.
- D. Add the HR managers as members of the existing workspace that hosts the reports and the datasets.

**Answer:** C

**Explanation:**

Note: Row-level security (RLS) with Power BI can be used to restrict data access for given users. Filters restrict data access at the row level, and you can define filters within roles. In the Power BI service, members of a workspace have access to datasets in the workspace. RLS doesn't restrict this data access.

Reference:

<https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls>

**NEW QUESTION 151**

- (Exam Topic 4)

You need to provide a user with the ability to add members to a workspace. The solution must use the principle of least privilege.

Which role should you assign to the user?

- A. Viewer
- B. Contributor
- C. Member
- D. Admin

**Answer:** C

**Explanation:**

A Member can add members or others with lower permissions. Note:

Capability	Admin	Member	Contributor	Viewer
Update and delete the workspace.	✓			
Add/remove people, including other admins.	✓			
Allow Contributors to update the app for the workspace	✓			
Add members or others with lower permissions.	✓	✓		

**NEW QUESTION 152**

- (Exam Topic 4)

You have a sales system that contains the tables shown in the following table.

Table name	Column name
Sales	sales_ID
	sales_date
	sales_amount
Date	DateID
	Month
	Week
	Year

The Date table is marked as a date table.

DateID is the date data type. You need to create an annual sales growth percentage measure. Which DAX expression should you use?

- A. `SUM(sales[sales_amount]) - CALCULATE(SUM(sales[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))`
- B. `(SUM('Sales'[sales_amount]) - CALCULATE(SUM('Sales'[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))) / CALCULATE(SUM('Sales'[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))`
- C. `CALCULATE(SUM(sales[sales_amount]), DATESYTD('Date'[DateID]))`
- D. `CALCULATE(SUM(sales[sales_amount]), SAMEPERIODLASTYEAR('Date'[DateID]))`

**Answer: B**

**Explanation:**

SAMEPERIODLASTYEAR returns a table that contains a column of dates shifted one year back in time from the dates in the specified dates column, in the current context.

Reference:

<https://docs.microsoft.com/en-us/dax/sameperiodlastyear-function-dax>

**NEW QUESTION 156**

- (Exam Topic 4)

You have a Power BI report. The report contains visualizations that have interactions. You need to identify which visualizations take the longest to complete. What should you use?

- A. SQL Server Profiler
- B. Performance Analyzer in Power BI Desktop
- C. Query Diagnostics in Power BI
- D. Microsoft Edge DevTools

**Answer: B**

**Explanation:**

Use Power BI Desktop Performance Analyzer to optimize reports.

In Power BI Desktop you can find out how each of your report elements, such as visuals and DAX formulas, are performing. Using the Performance Analyzer, you can see and record logs that measure how each of your report elements performs when users interact with them, and which aspects of their performance are most (or least) resource intensive. Reference:

<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-performance-analyzer>

**NEW QUESTION 159**

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