# 70-778.68q

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

**70-778**


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**Analyzing and Visualizing Data with Microsoft Power BI**

**Exam A**

**QUESTION 1**
**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 user named User1. User1 is a member of a security group named Contoso PowerBI.

User1 has access to a workspace named Contoso Workspace.

You need to prevent User1 from exporting data from the visualizations in Contoso Workspace.

Solution: From the Microsoft Office 365 Admin center, you modify the properties of Contoso PowerBI.

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/service-manage-app-workspace-in-power-bi-and-office-365

**QUESTION 2**
**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 user named User1. User1 is a member of a security group named Contoso PowerBI.

User1 has access to a workspace named Contoso Workspace.

You need to prevent User1 from exporting data from the visualizations in Contoso Workspace.

Solution: From the PowerBI setting, you modify the Developer Settings.

Does this meet the goal?



A. Yes
B. No

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 3**
You plan to embed multiple visualizations in a public website.

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

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

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

**NOTE:** Each correct selection is worth one point.

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

**Correct Answer:** BD
**Section: (none)**
**Explanation**

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

**QUESTION 4**
You have a workspace that contains 10 dashboards. A dashboard named Sales Data displays data from two datasets. You discover that users are unable to find data on the dashboard by using natural language queries.

You need to ensure that the users can find data by using natural language queries.

What should you do?

A. From the settings of the workspace, modify the Language Settings.
B. From the Sales Data dashboard, set the dashboard as a Favorite.
C. From the properties of the datasets, modify the Q&A and Cortana settings.
D. From the properties of the dashboard, modify the Q&A settings.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://docs.microsoft.com/en-us/power-bi/service-q-and-a-direct-query#limitations-during-public-preview

**QUESTION 5**
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?

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 6**
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 7**
You have a Power BI dashboard that displays different visualizations of company sales.

You enable Q&A on the dashboard.

You need to provide users with sample questions that they can ask when using Q&A.

Which settings should you modify form the Power BI Settings?

A. Subscriptions
B. Workbooks
C. Dashboards
D. Datasets

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://docs.microsoft.com/en-us/power-bi/service-q-and-a-create-featured-questions

**QUESTION 8**
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 9**
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 10**
You have a Microsoft Excel spreadsheet that contains a table named Sales.

You need to add the Sales table to a Power BI dashboard as a tile.

How should you configure the tile?

A. From the Power BI service, import the data from the Excel workbook.
B. From Excel, publish the workbook to the Power BI service.
C. From the Power BI tab in Excel, pin the table.
D. From the Power BI service, upload the Excel workbook.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://docs.microsoft.com/en-us/power-bi/publisher-for-excel

**QUESTION 11**
DRAG DROP

From Power BI service, you publish an app that contains one dashboard and one report. Q&A is enabled on the dashboard.

In Q&A, a user types the query **count of clients** and fails to receive any results. The user then types the query **count of subscribers** and receives the expected results.

You need to ensure that the user can use both queries to receive the same results.

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.

**Select and Place:**


**Correct Answer:**


**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 12**
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 13**
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?

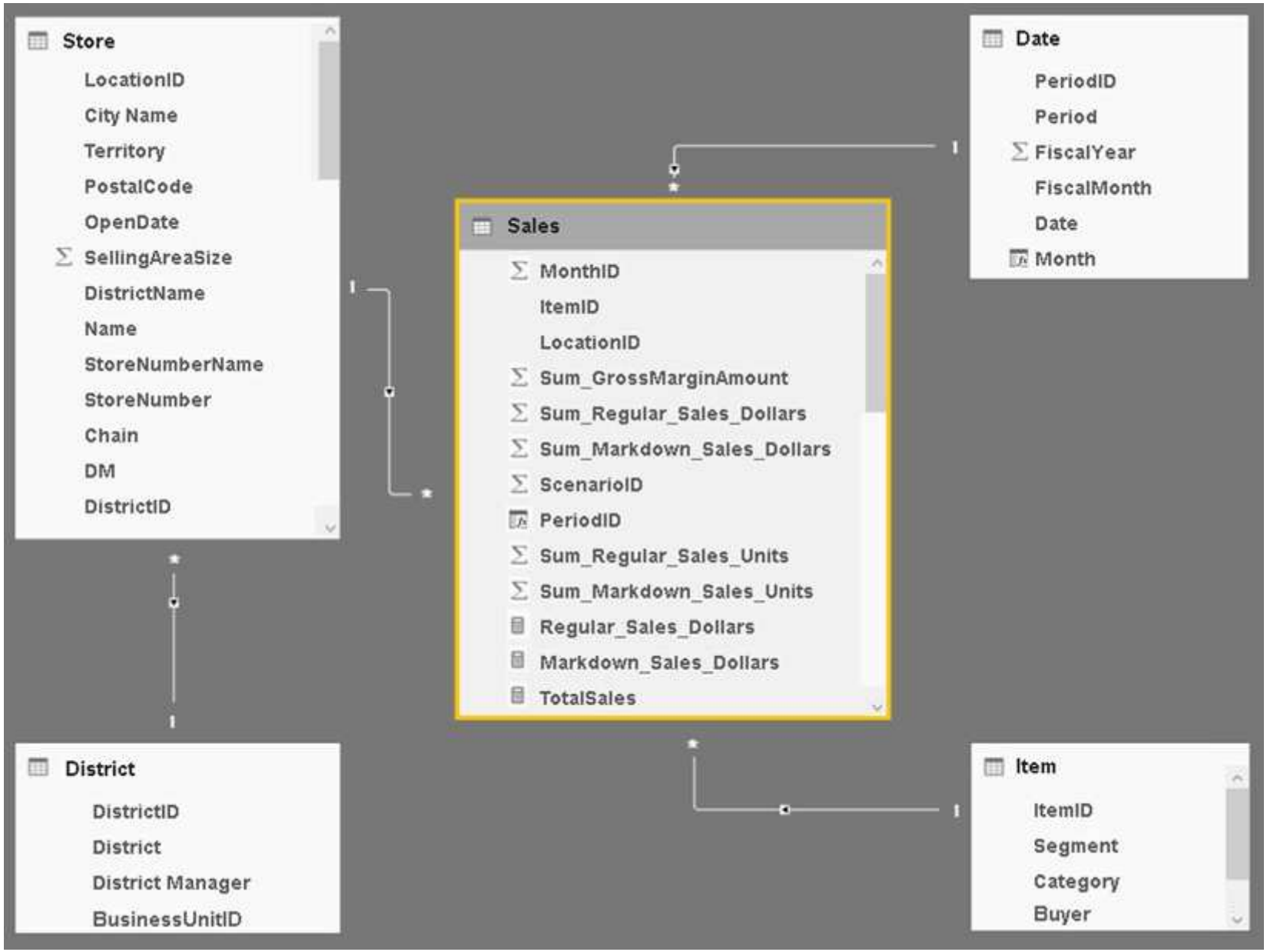
A. Union Fiscal and Date as one table.
B. Add Fiscal to the model and create a one-to-many relationship by using Date[Year] and Fiscal[Year].
C. Add Fiscal to the model and create a one-to-one relationship by using Date[Year] and Fiscal[Year].
D. Merge Fiscal into the Date table.

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**

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

**QUESTION 14**
You plan to create a Power BI report. You have the schema model shown in the exhibit. (Click the **Exhibit** button.)



The model has the following relationships:

- Store to District based on DistrictID
- Sales to Store based on LocationID
- Sales to Date based on PeriodID
- Sales to Item based on ItemID

You configure row-level security (RLS) so that the district managers of the stores only see the sales from the stores they manage.

When the district managers view the Store by Items report, they see items for all the stores.

You need to ensure that the district managers can see items for the stores they manage only.

How should you configure the relationship from Sales to Item?

A. Select **Assume Referential Integrity**.
B. Change the Cardinality to **One to Many (1:*)**.
C. Change the Cross filter direction to **Both**.
D. Change the Cardinality to **One to one (1:1)**.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://powerbi.microsoft.com/en-us/guided-learning/powerbi-admin-rls/

**QUESTION 15**
You use Power BI Desktop to create a visualization for a Microsoft SQL Server data source.

You need to ensure that you can use R visualization.

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

**NOTE:** Each correct selection is worth one point.

A. Download and install Microsoft R Server.
B. Download and install RStudio Server on the computer that has Power BI Desktop installed.
C. Install SQL Server R Services on the server that runs SQL Server.

D. Enable R Scripting on the computer that has Power BI Desktop installed.
E. Download and install Microsoft R on the computer that has Power BI Desktop installed.

**Correct Answer:** E
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://docs.microsoft.com/en-us/power-bi/desktop-r-visuals

**QUESTION 16**
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?

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 17**
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 18**
You plan to deploy a Power BI app workspace that will be viewed by 10,000 users.

You need to ensure that dashboard data can be updated every 30 minutes.



What should you do?

A. Assign each user a Power BI Pro license.
B. Store the dataset in Microsoft Azure Storage that uses the Premium storage tier.
C. Create the app workspace by using an account that is assigned a Power BI Pro license.
D. Configure the app workspace for Premium capacity.

**Correct Answer:** D
**Section: (none)**

**Explanation**

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

**QUESTION 19**
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 20**
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 21**
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 22**
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?

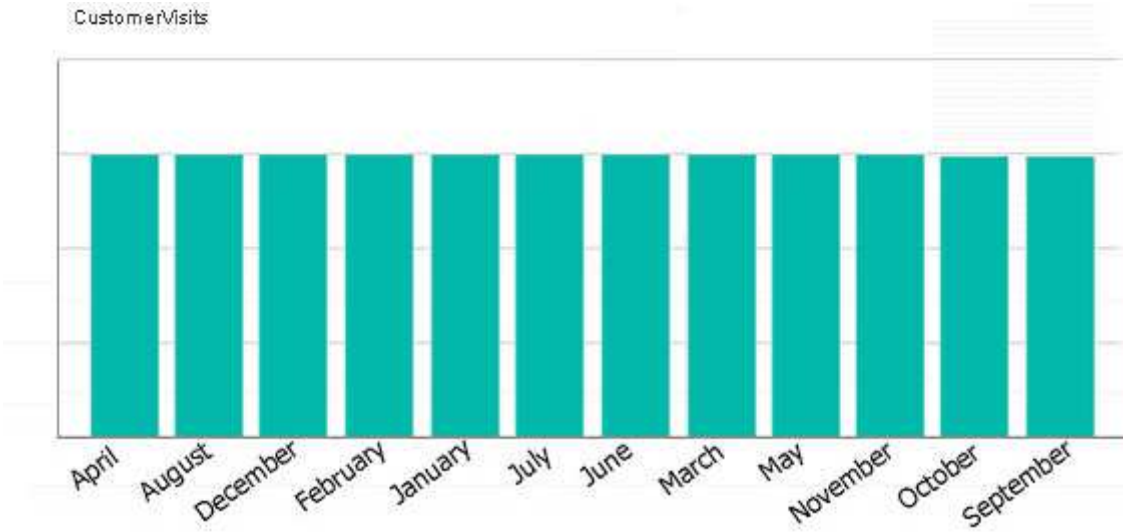
A. Add a column named Country that contains United States as the value.
B. Add a column for longitude and a column for latitude.
C. Select the Zone field. From the Modeling tab, change the Data Category.
D. Select the Zone field. From the Modeling tab, change the Data Type.

**Correct Answer:** C
**Section: (none)**
**Explanation**

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

**QUESTION 23**
You have two tables named CustomerVisits and Date in a Power BI model.

You create a measure to calculate the number of customer visits. You use the measure in the report shown in the exhibit. (Click the **Exhibit** button.)




You discover that the total number of customer visits was 60,000, and that there were only 5,000 customer visits in August.

You need to fix the report to display the correct data for each month.

What should you do?

A. Modify the measure to use the CALCULATE DAX function.
B. Create a relationship between the CustomerVisits table and the Date table.
C. Modify the measure to use the sum DAX function.

D. Create a hierarchy in the Date table.

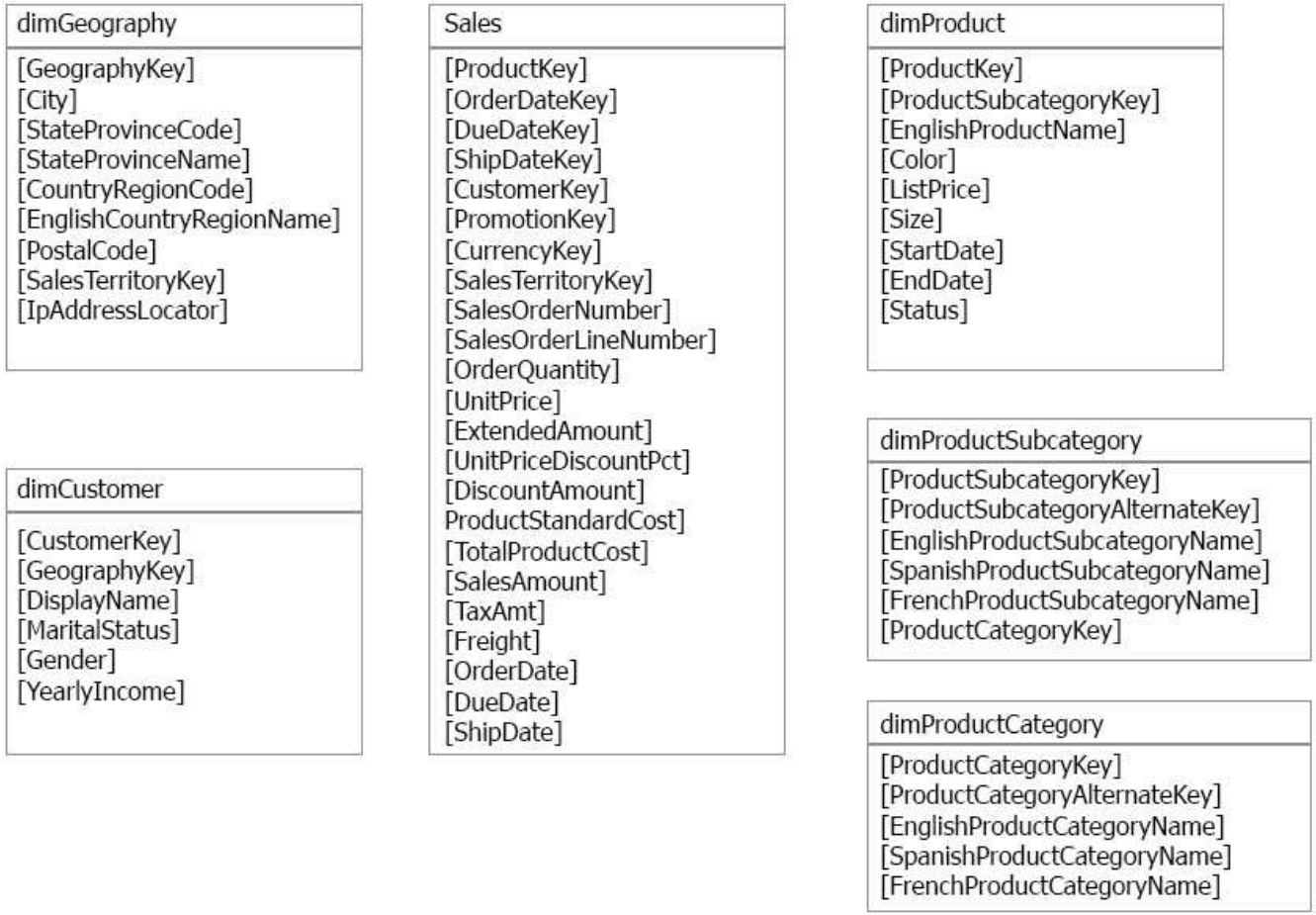
**Correct Answer:** B
**Section: (none)**
**Explanation**

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

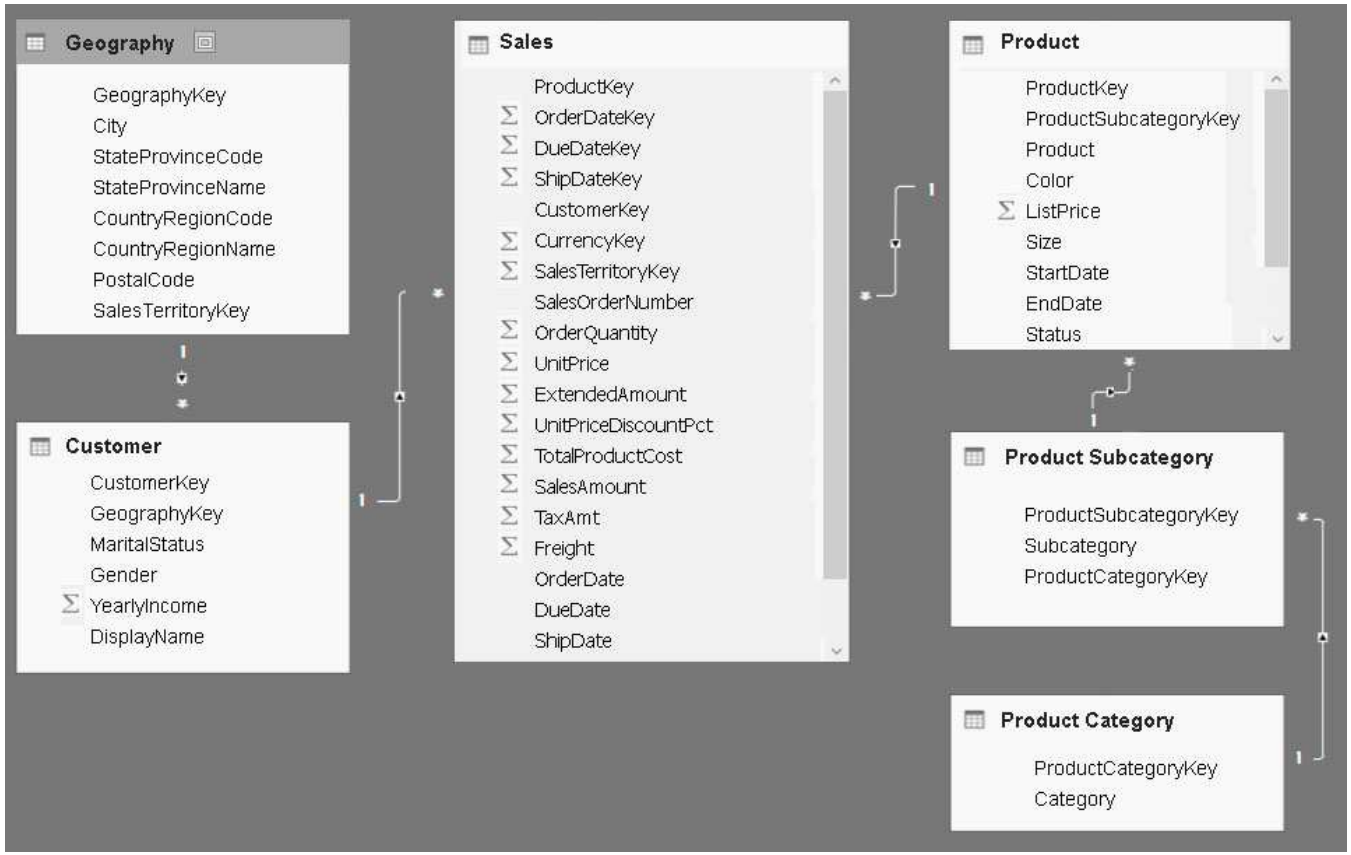
**QUESTION 24**
**Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.**

**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.)




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)`

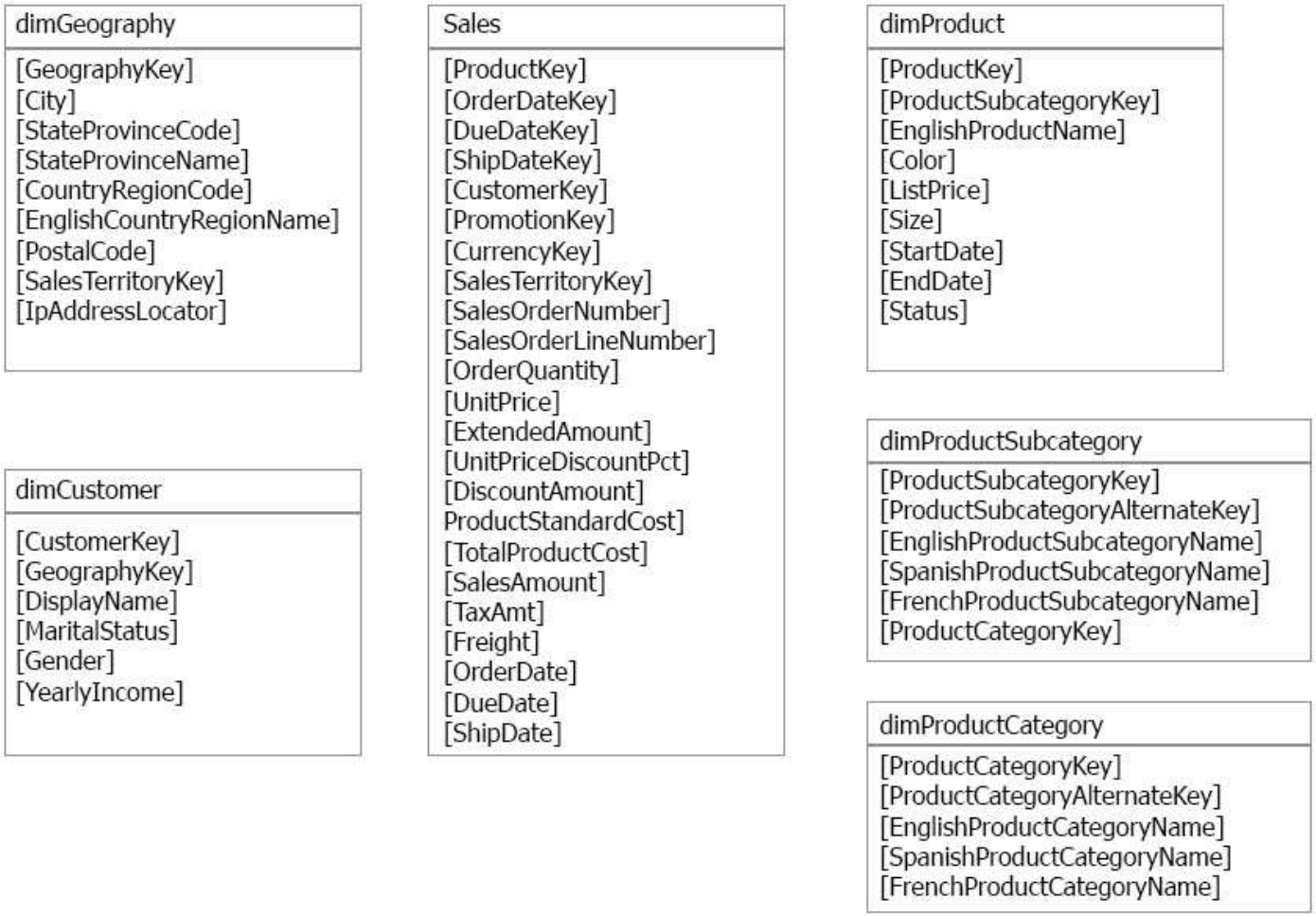
**Correct Answer:** C
**Section: (none)**
**Explanation**

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

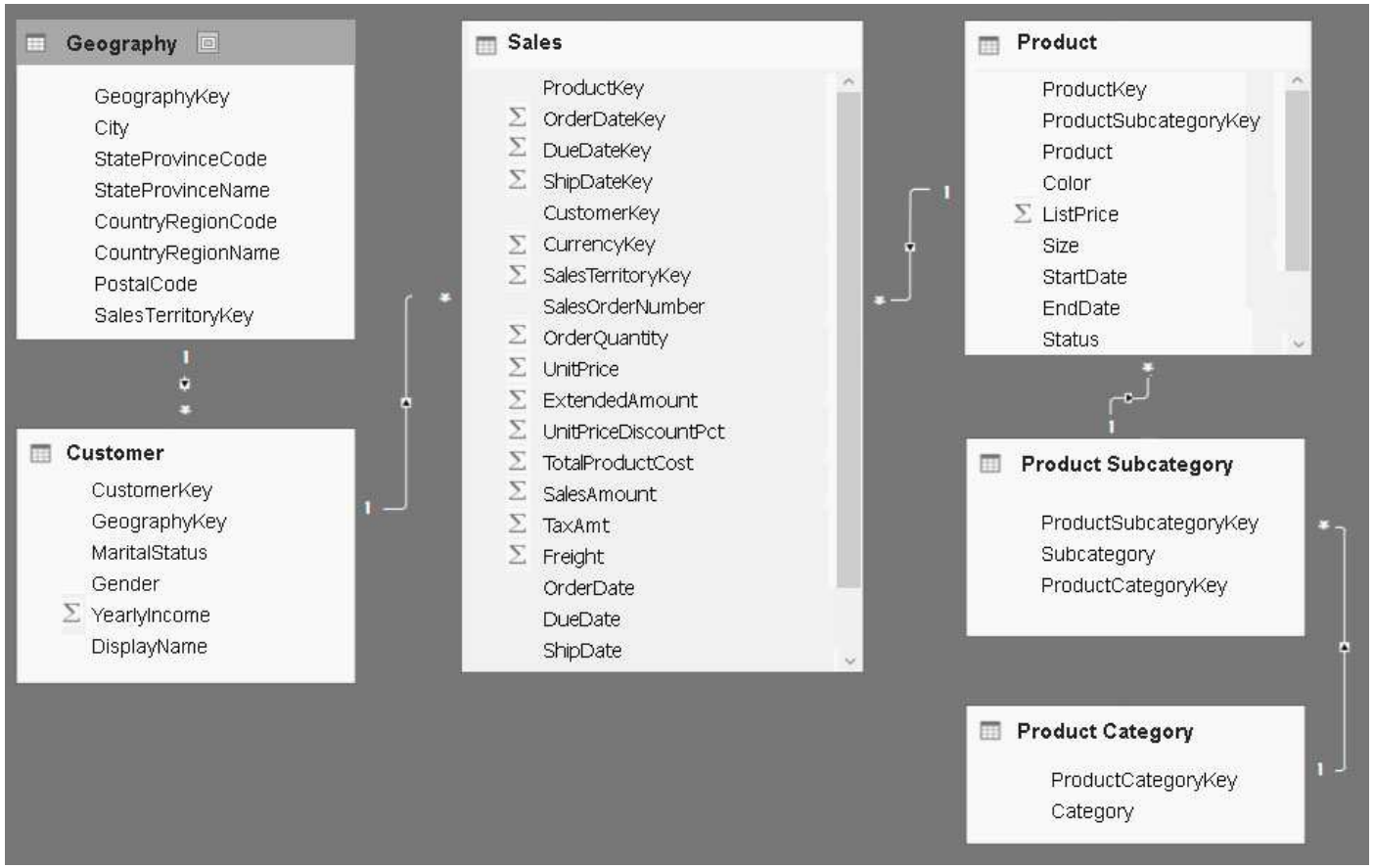
**QUESTION 25**
**Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.**

**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.)




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
    )
)
```

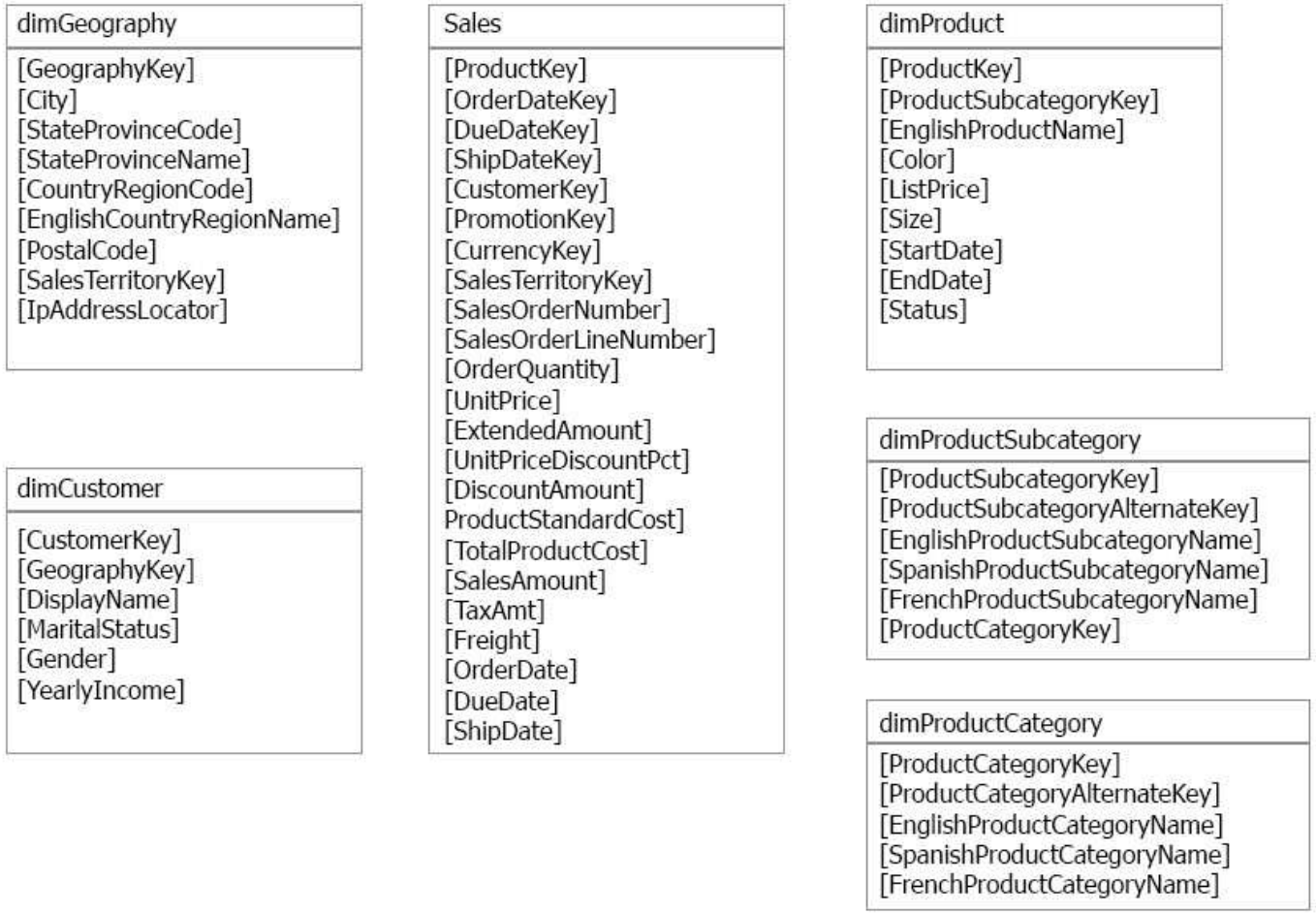
**Correct Answer:** C
**Section: (none)**
**Explanation**

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

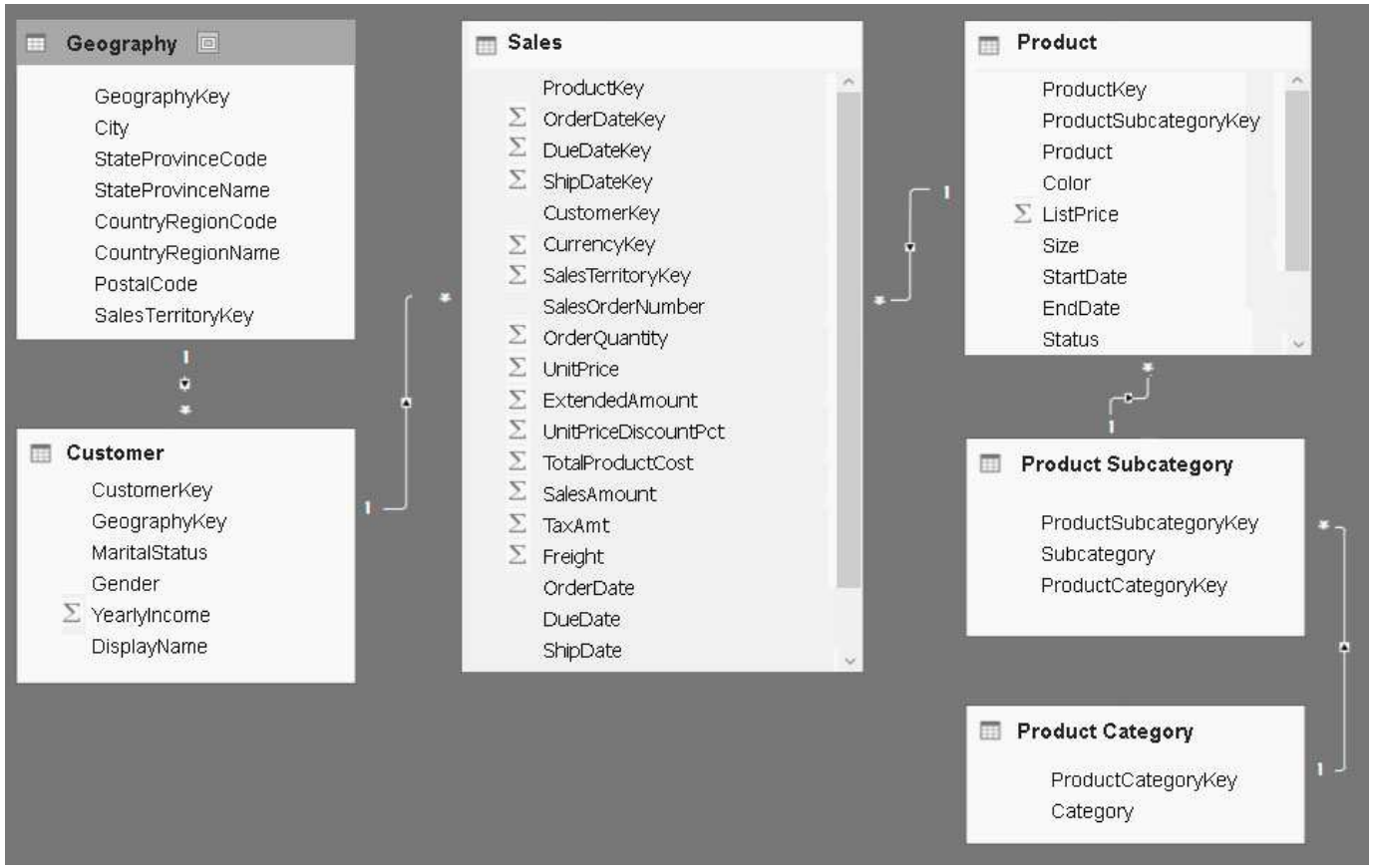
**QUESTION 26**
**Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.**

**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.)




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.Distinct`
B. `Table.IsDistinct`
C. `Table.ReplaceMatchingRows`
D. `Table.RemoveMatchingRows`

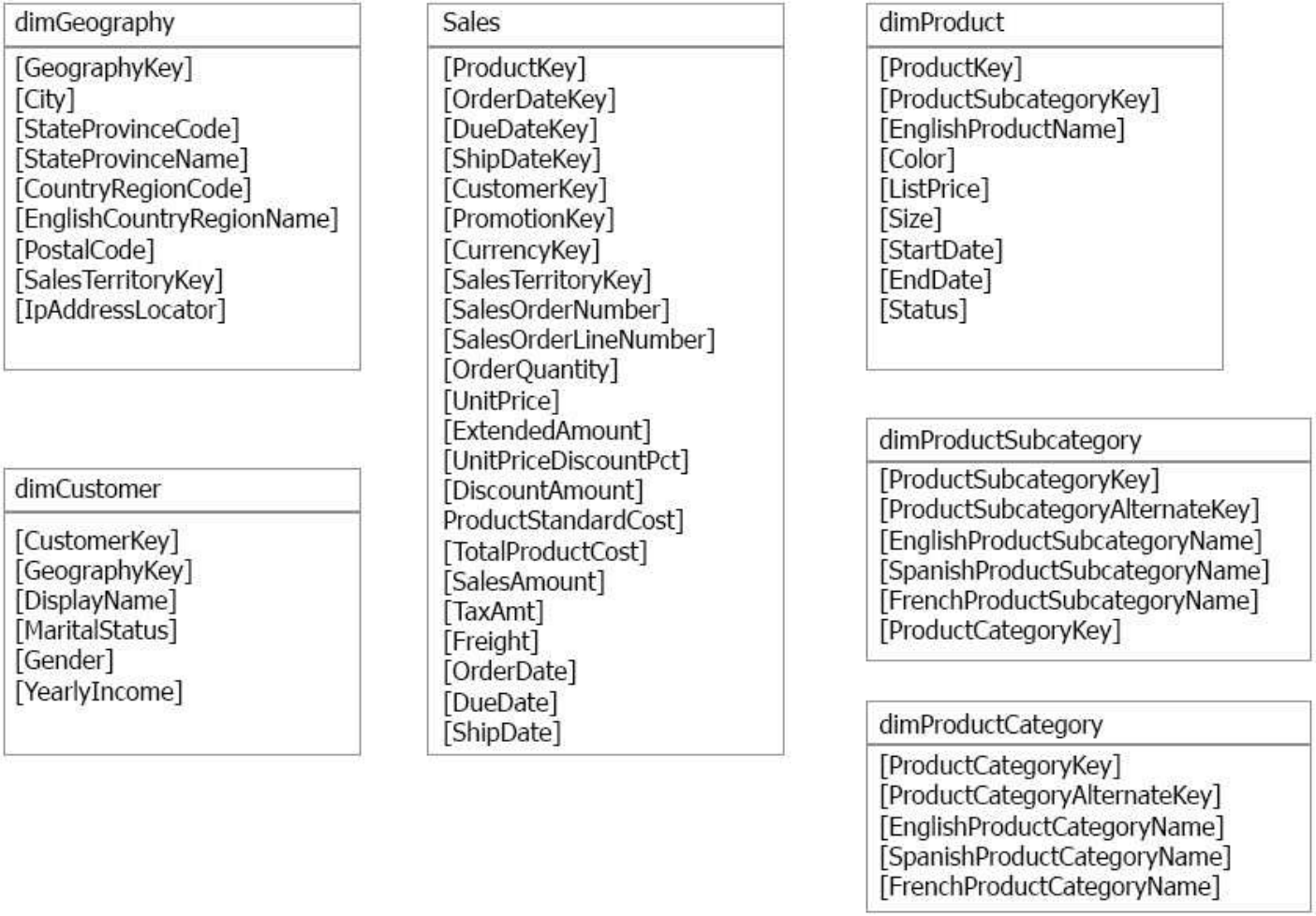
**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://msdn.microsoft.com/en-us/library/mt260775.aspx

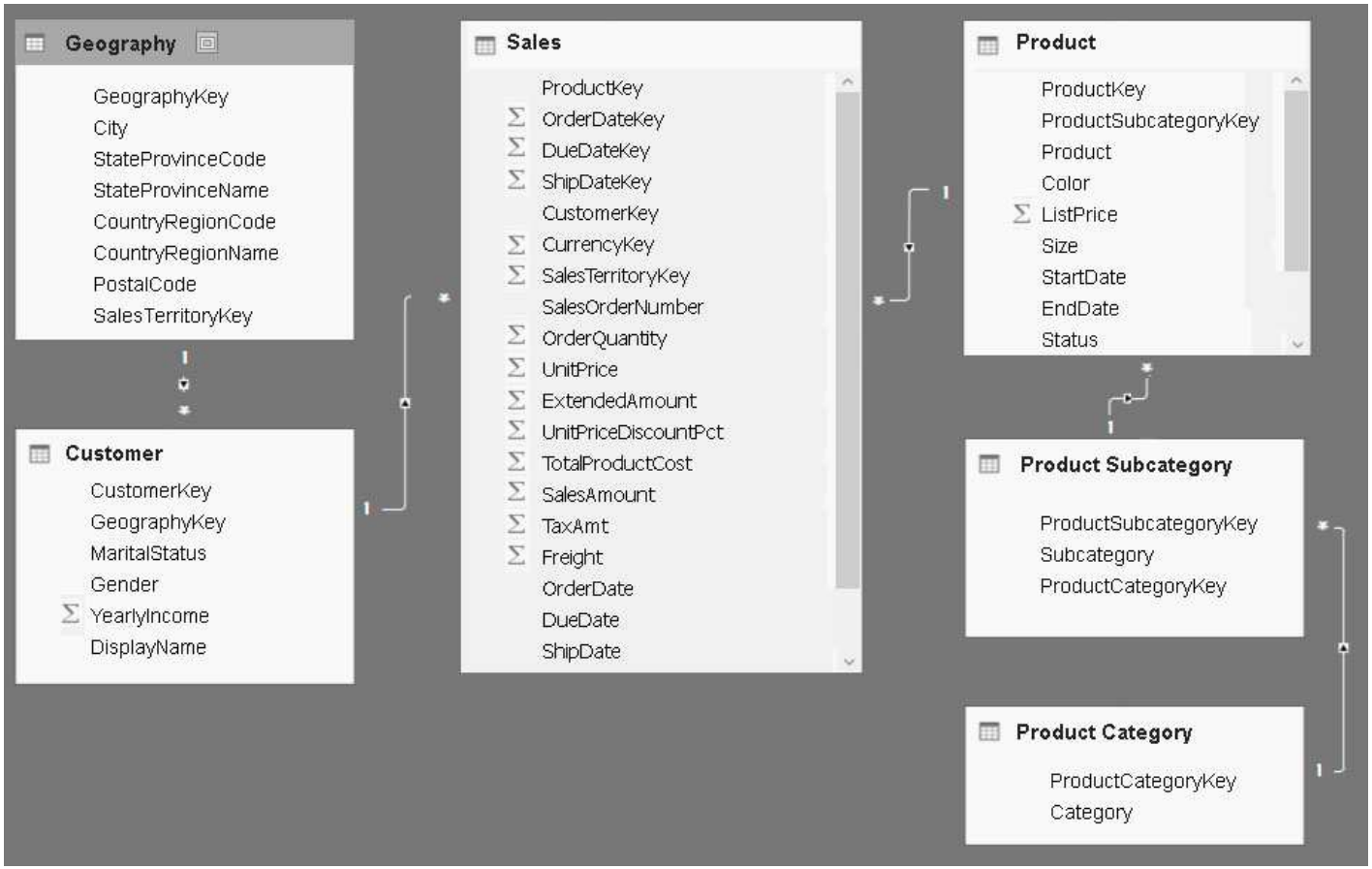
**QUESTION 27**
**Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.**

**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.)




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 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 28**
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 29**
You have a Power BI model that has a date table. A sample of the data shown in the following table.

| Date | Day | Week | Month | Year |
|---|---|---|---|---|
| 2014-12-01 | 1 | 27 | 12 | 2014 |
| 2014-12-02 | 2 | 27 | 12 | 2014 |
| 2014-12-03 | 3 | 27 | 12 | 2014 |
| 2014-12-04 | 4 | 27 | 12 | 2014 |

You need to add a column to display the date in the format of December 01, 2014.

Which DAX formula should you use in Power BI Desktop?

A. **FORMAT([Date], "MMM") & " " & FORMAT([Date], "DD") & ", " & FORMAT([Date], "YYYY")**
B. **FORMAT([Date], "M") & " " & FORMAT([Date], "D") & ", " & [Date].[Year])**
C. **[Date].[Month] & " " & FORMAT([Date], "D") & ", " & [Date].[Year])**
D. **FORMAT([Date], "MMMM DD, YYYY")**

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 30**
HOTSPOT

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

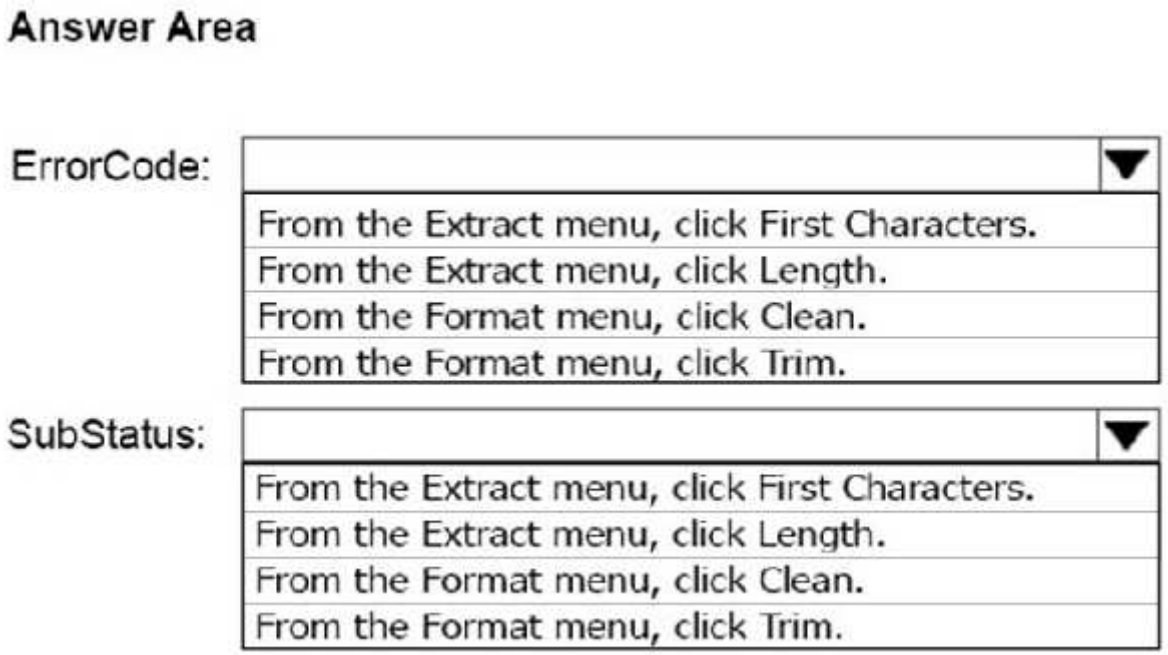
You discover that a column named ErrorCode has several values starting with a space character, and a column named SubStatus contains several non-printable characters.

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

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

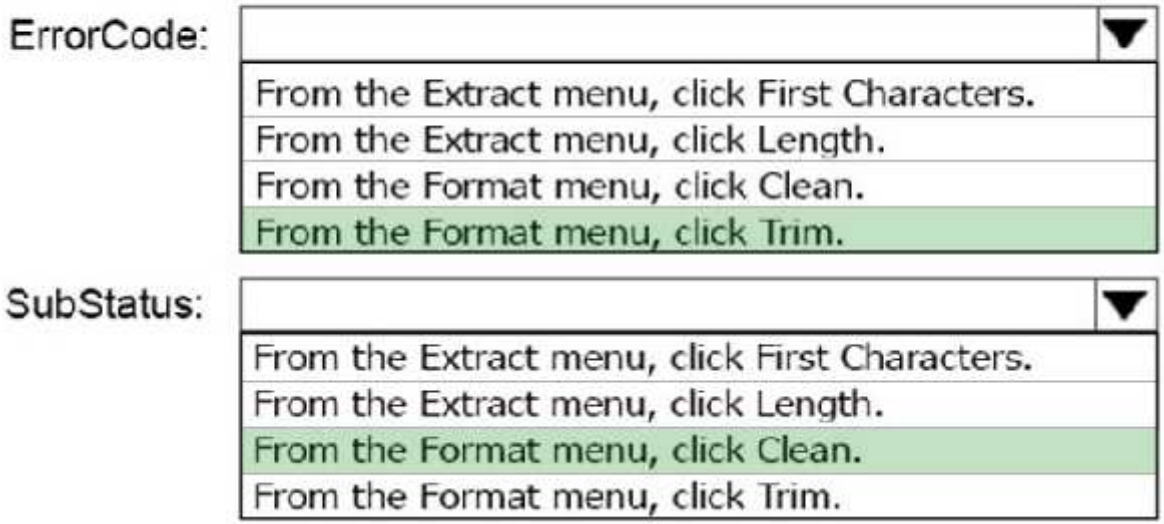
**NOTE:** Each correct selection is worth one point.

**Hot Area:**




**Correct Answer:**

**Answer Area**




**Section: (none)**
**Explanation**

**Explanation/Reference:**
References:
https://msdn.microsoft.com/en-us/library/mt260494.aspx
https://msdn.microsoft.com/en-us/library/mt253328.aspx

**QUESTION 31**
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 32**
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 33**
**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 34**
**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 35**
**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 36**
**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 Excel, click **Publish to Power BI**, and then click **Export**.

Does this meet the goal?

A. Yes
B. No

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 37**
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 38**
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 39**

You have the following two queries in Power BI Desktop:

- A query named Query1 that retrieves a table named SMB_Customers from a Microsoft SQL Server database
- A query named Query2 that retrieves a table named Enterprise_Customers from an Oracle Server database

Both tables have the same columns.

You need to combine the data from SMB_Customers and Enterprise_Customers.

Which command should you use?

A. Combine Files
B. Merge Queries
C. Merge Columns
D. Append Queries

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: http://radacad.com/append-vs-merge-in-power-bi-and-power-query

**QUESTION 40**
You are creating a Power BI Desktop report that has several bar charts and a date slicer.

You need to create a slide show that can be viewed from the Power BI service. Each slide must display the charts filtered for a different year.

What should you do before you publish the report?

A. Configure report level filters, and then create groups that use the List group type.
B. Configure drillthrough filters for each bar chart, and then select **Selection Pane**.
C. Filter the bar charts by using the slicer, and then create bookmarks.
D. Configure page level filters, and then create groups that use the Bin group type.

**Correct Answer:** C
**Section: (none)**
**Explanation**

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

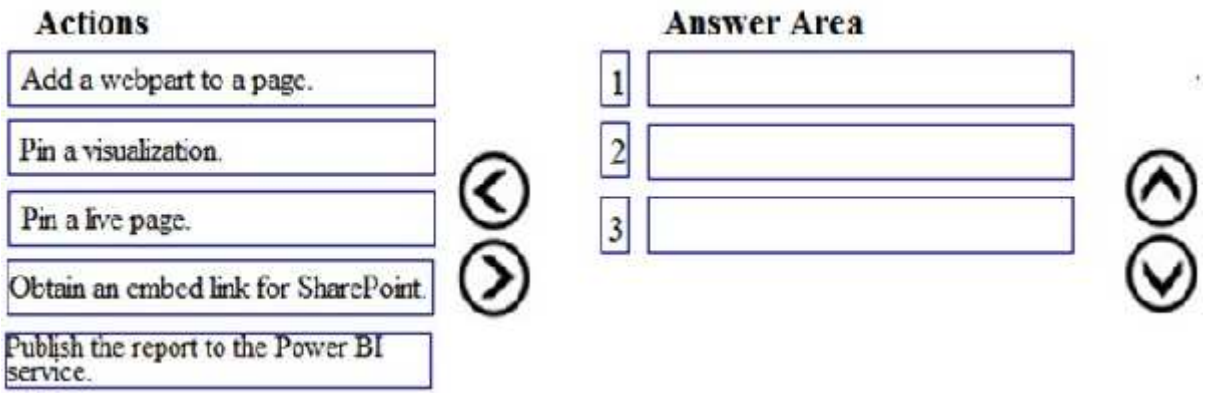
**QUESTION 41**
DRAG DROP

You create a report in Power BI Desktop.

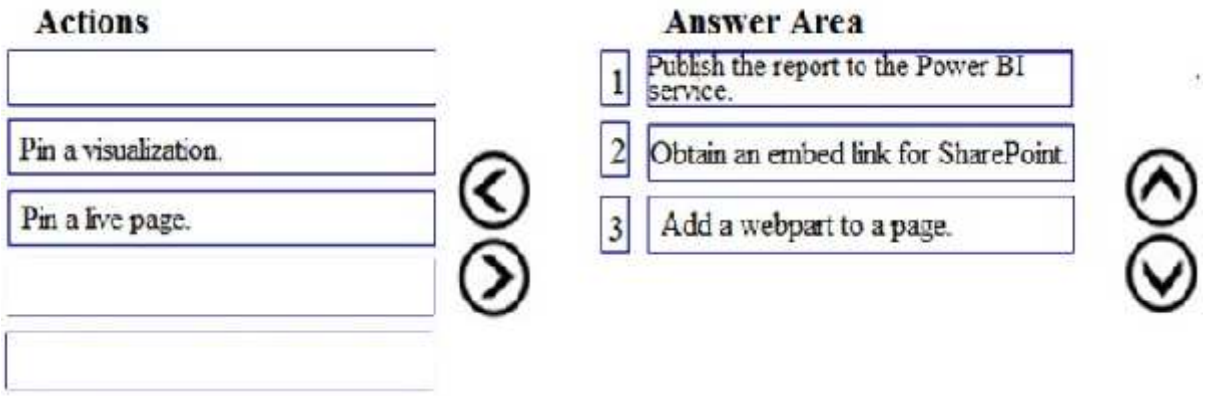
You need to embed the report into a Microsoft SharePoint Online site.

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.

**Select and Place:**




**Correct Answer:**




**Section: (none)**
**Explanation**

**Explanation/Reference:**
References: https://powerbi.microsoft.com/en-us/blog/integrate-power-bi-reports-in-sharepoint-online/

**QUESTION 42**
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 43**
You have a sales report in an app workspace. The report displays a map of sales by location and a bar chart of sales by year. The report has a slicer to filter the data by year.

You need to create a dashboard that contains visualizations. The solution must ensure that you can use the slicer to filter the data by year.

What should you do?

A. Pin each visualization to the dashboard, and then add a web content tile.
B. Add a page level filter, and then pin each visualization to the dashboard.
C. Publish the app workspace.
D. Pin the report as a live page.

**Correct Answer:** D
**Section: (none)**
**Explanation**

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

**QUESTION 44**
A data analyst publishes several Power BI visualizations to a blog.

You discover that some of the visualizations contain data that is considered private by your company.

You need to prevent the visualizations from being published to the blog.

What should you do?

A. From the Power BI Admin portal, disable the Publish to web setting.
B. From the Power BI settings, delete the embedded codes.
C. From the Power BI Admin portal, disable the Share content with external users setting.
D. From the dashboard settings, modify the Share dashboard settings.

**Correct Answer:** A
**Section: (none)**
**Explanation**

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

**QUESTION 45**
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 46**
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 47**
In the Power BI service, you create an app workspace that contains several dashboards.

You need to provide a user named user1@contoso.com with the ability to edit and publish dashboards.

What should you do?

A. Modify the members of the app workspace.
B. Configure security for the dataset used by the app.
C. Share the dashboard, and then modify the Access settings of the dashboard.
D. From the app workspace, click Update app, and then configure the Access settings.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 48**
You embed a Power BI report in a Microsoft SharePoint Online page.

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

User1 is unable to view the report.

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

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

What should you do?

A. Publish the app workspace.
B. Share the 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 49**
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 50**
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 51**
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 52**
**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 53**
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 54**
You have a Power BI Desktop project that uses DirectQuery to access an on-premises Microsoft SQL Server database.

From Power BI Desktop, you can query the database.

When you publish the Power BI Desktop project to the Power BI service, the visualizations cannot display the data.

What should you do to resolve the issue?

A. Locate the published dataset for the project in the Power BI service and configure the data source credentials.
B. Install the on-premises data gateway (personal mode) and republish the project.
C. Install the on-premises data gateway and configure a data source.
D. Configure a Microsoft Azure ExpressRoute connection between the on-premises network and the Power BI service.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References:
https://docs.microsoft.com/en-us/power-bi/service-gateway-sql-tutorial

**QUESTION 55**
**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 need to create a chart that displays a sum of Order[Order_amount] by month for the Order_ship_date column and the Order_date column.

How should you model the data?

A. Create a one-to-many relationship from Date[Date_ID] to Order[Order_date] and another relationship from Date[Date_ID] to Monthly_returns[Date_ID].
B. Add a second Date table named Ship_date to the model. Create a many-to-many relationship from Date[Date_ID] to Order[Order_date] and many-to-many relationship from Ship_date[Date_ID] to Order[Order_ship_date].
C. Add a second Date table named Ship_date to the model. Create a one-to-many relationship from Date[Date_ID] to Order[Order_date] and a one-to-many relationship from Ship_Date[Date_ID] to Order[Order_ship_date].
D. Create a one-to-many relationship from Date[Date_ID] to Order[Order_date] and another relationship from Date[Date_ID] to Order[Order_ship_date].

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 56**
**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 modeling the data in Power BI.

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

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

**NOTE:** Each correct selection is worth one point.

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

**Correct Answer:** BD
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 57**
**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 58**
**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 59**
You plan to create a dashboard in the Power BI service that retrieves data from a Microsoft SQL Server database. The dashboard will be shared between the users in your organization.

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 Import Data Connectivity mode.
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 Import Data Connectivity mode.
D. Deploy an on-premises data gateway (personal mode). Connect to the data by using the DirectQuery Data Connectivity mode.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 60**

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 61**
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.

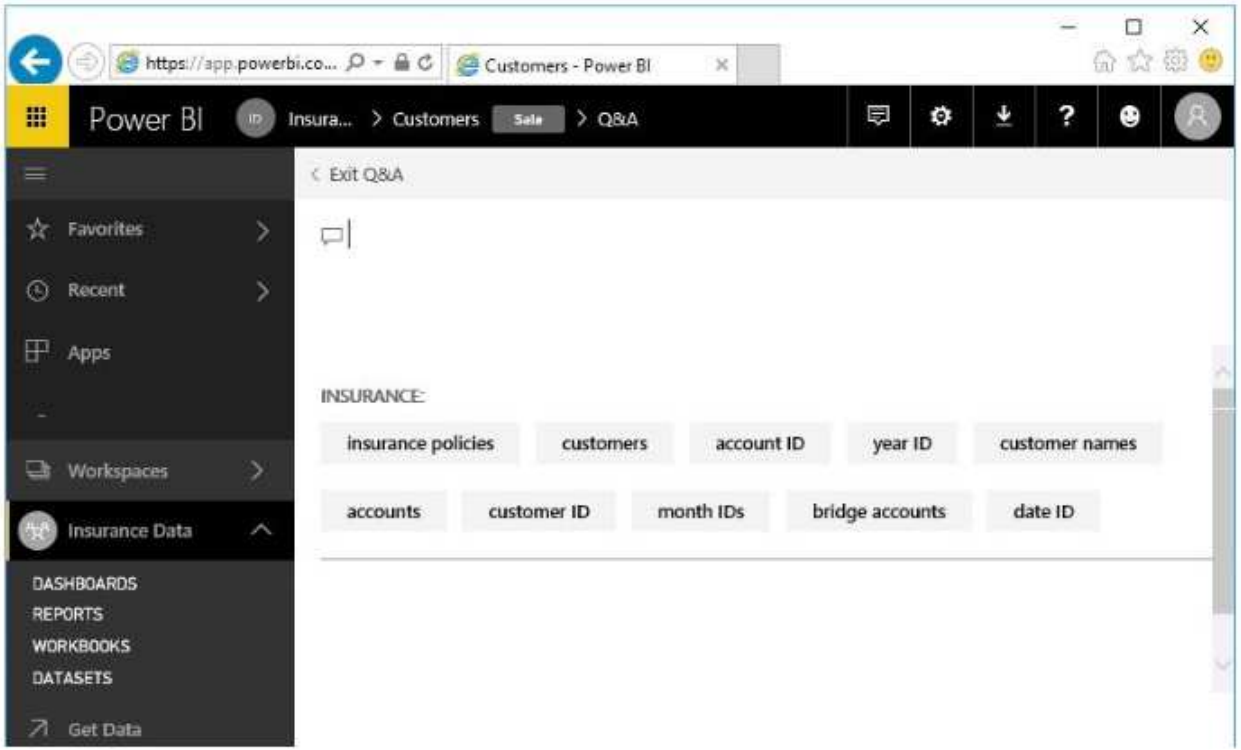
**Correct Answer:** A
**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 62**
HOTSPOT

You open powerbi.com as 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.

**Hot Area:**

**Answer Area**

A tenant administrator created a data classification that has a shorthand of [answer choice].

- Customers
- Insurance
- Insurance Data
- Sale

The dashboard uses a dataset named [answer choice].

- Customers
- Insurance
- Insurance Data
- Sale

**Correct Answer:**

**Answer Area**

A tenant administrator created a data classification that has a shorthand of [answer choice].

- Customers
- Insurance
- Insurance Data
- Sale

The dashboard uses a dataset named [answer choice].

- Customers
- Insurance
- Insurance Data
- Sale

**Section: (none)**
**Explanation**

**Explanation/Reference:**

References:
https://biinsight.com/data-classification-in-power-bi/

**QUESTION 63**
You plan to use Power BI Desktop to create a report. The report will consume data from an on-premises tabular database named SalesDB in Microsoft SQL Server Analysis Services (SSAS). The report will be published to the Power BI service.

You need to ensure that the report published to the Power BI service will access the current data in SalesDB.

What should you do?

A. Deploy an on-premises data gateway and configure the connection to SalesDB to use the Connect live option.
B. Deploy an on-premises data gateway and configure the connection to SalesDB to use the Import Data Connectivity mode.
C. Deploy an on-premises data gateway (personal mode) and configure the connection to SalesDB to use the DirectQuery Data Connectivity mode.
D. Deploy an on-premises data gateway and configure the connection to SalesDB to use the DirectQuery Data Connectivity mode.

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 64**
You plan to join a fact table named ActivityLog to a Date dimension named ActivityDate. The date value in ActivityLog is a datetime column named ActivityStart. The date value in ActivityDate is a number column named DateID. DateID is in the YYYYMMDD format.

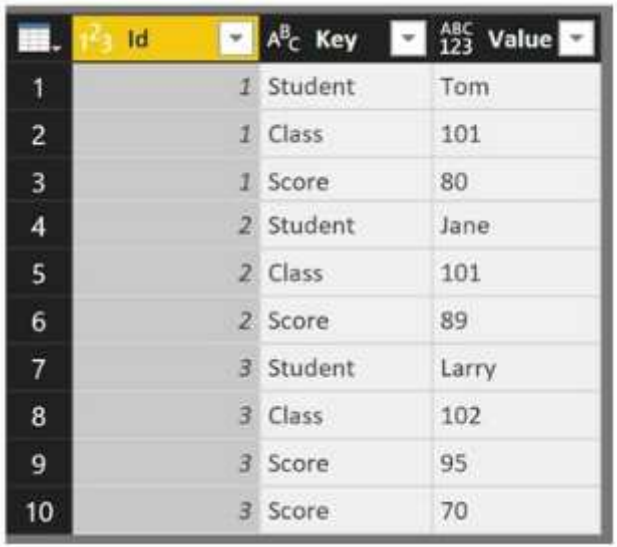
What should you do in the model before you create the relationship?

A. Change the Data Type of ActivityStart to Date.
B. Create a measure in ActivityLog that uses the `FORMAT` DAX function.
C. Change the Data Type of DateID to Date.
D. Create a calculated column in ActivityLog that uses the `FORMAT` DAX function.

**Correct Answer:** D
**Section: (none)**
**Explanation**

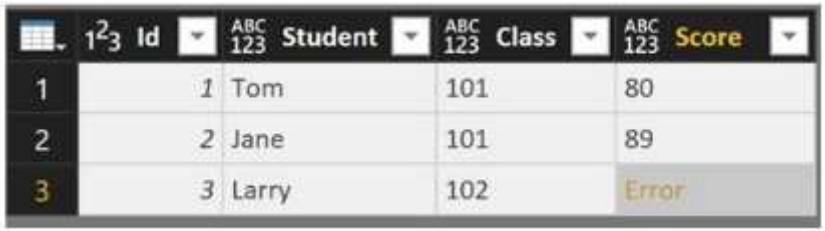
**Explanation/Reference:**

**QUESTION 65**
You have a table in Power BI Desktop as shown in the following exhibit.



| | Id | Key | Value |
|---|---|---|---|
| 1 | 1 | Student | Tom |
| 2 | 1 | Class | 101 |
| 3 | 1 | Score | 80 |
| 4 | 2 | Student | Jane |
| 5 | 2 | Class | 101 |
| 6 | 2 | Score | 89 |
| 7 | 3 | Student | Larry |
| 8 | 3 | Class | 102 |
| 9 | 3 | Score | 95 |
| 10 | 3 | Score | 70 |

You pivot the columns as shown in the following exhibit.



| | Id | Student | Class | Score |
|---|---|---|---|---|
| 1 | 1 | Tom | 101 | 80 |
| 2 | 2 | Jane | 101 | 89 |
| 3 | 3 | Larry | 102 | Error |

You need to resolve the error in row 3. The solution must preserve all the data.

What should you do?

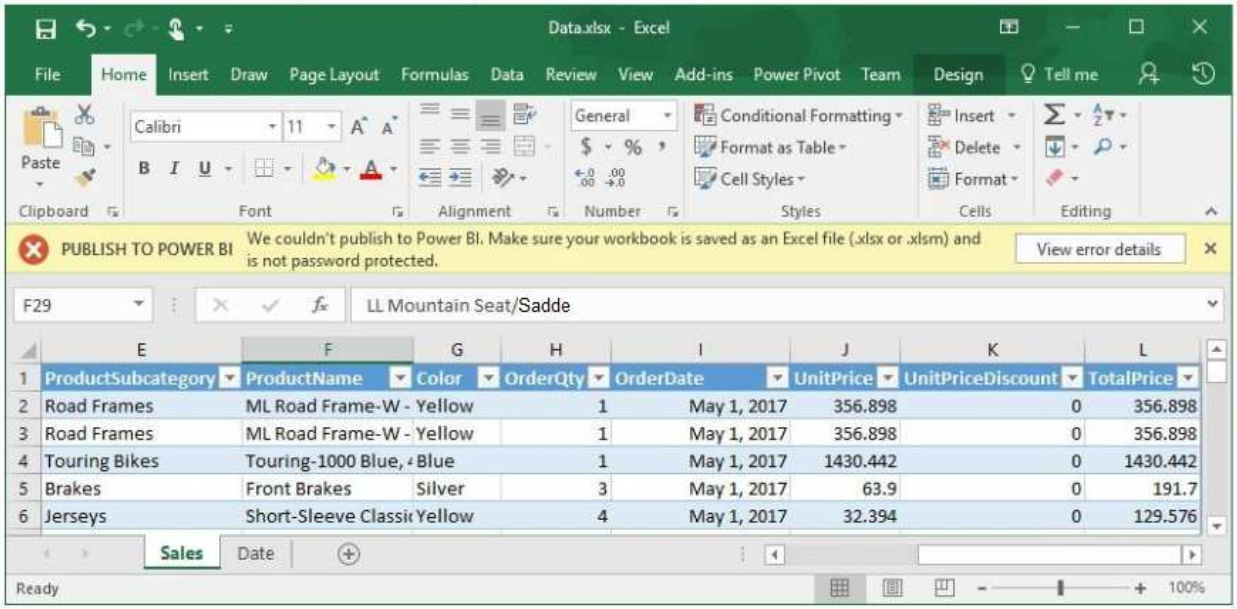
A. Change the Data Type of the Value column.
B. Select the Key column, and then click **Remove Duplicates**.
C. Change the Aggregate Value Function of the pivot.

D. Select the Score column, and then click **Remove Errors**.

**Correct Answer:** C
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 66**
You attempt to publish a Microsoft Excel file to Power BI, and you receive the error message shown in the exhibit. (Click the **Exhibit** button.)




| | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|
| 1 | ProductSubcategory | ProductName | Color | OrderQty | OrderDate | UnitPrice | UnitPriceDiscount | TotalPrice |
| 2 | Road Frames | ML Road Frame-W - | Yellow | 1 | May 1, 2017 | 356.898 | 0 | 356.898 |
| 3 | Road Frames | ML Road Frame-W - | Yellow | 1 | May 1, 2017 | 356.898 | 0 | 356.898 |
| 4 | Touring Bikes | Touring-1000 Blue, | Blue | 1 | May 1, 2017 | 1430.442 | 0 | 1430.442 |
| 5 | Brakes | Front Brakes | Silver | 3 | May 1, 2017 | 63.9 | 0 | 191.7 |
| 6 | Jerseys | Short-Sleeve Classi | Yellow | 4 | May 1, 2017 | 32.394 | 0 | 129.576 |

The file is in c:\data\.

You need to ensure that you can publish the file to Power BI.

What should you do first?

A. Save the file in a Microsoft SharePoint document library.

B. Decrypt the workbook.
C. Add a digital signature to the workbook.
D. Set the file attributes to read-only.

**Correct Answer:** B
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References:
https://docs.microsoft.com/en-us/power-bi/service-publish-from-excel

**QUESTION 67**
You have two tables named Customer and Orders. A sample of the Data in Customer is shown in the following table.

| CustomerID | CustomerName |
|---|---|
| 1 | Customer1 |
| 2 | Customer2 |
| 3 | Customer3 |
| 4 | Customer4 |

A sample of the data in Orders is shown in the following table.

| OrderID | CustomerID | OrderDate | OrderAmount |
|---|---|---|---|
| 1 | 1 | 12-22-2016 | 1000 |
| 2 | 1 | 12-23-2016 | 1200 |
| 3 | 2 | 12-24-2016 | 1100 |
| 4 | 3 | 12-24-2016 | 800 |

You need to create the following new table.

| CustomerID | CustomerName | OrderID | OrderDate | OrderAmount |
|---|---|---|---|---|
| 1 | Customer1 | 1 | 12-22-2016 | 1000 |
| 1 | Customer1 | 2 | 12-23-2016 | 1200 |
| 2 | Customer2 | 3 | 12-24-2016 | 1100 |
| 3 | Customer3 | 4 | 12-24-2016 | 800 |
| 4 | Customer4 | | | |

You must use Customer as the first table.

Which join kind should you use?

A. Right Anti
B. Right Outer
C. Left Anti
D. Left Outer
E. Inner

**Correct Answer:** D
**Section: (none)**
**Explanation**

**Explanation/Reference:**

**QUESTION 68**
**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.**

Your company has 1,000 users in a Microsoft Office 365 subscription.

A Power BI administrator named Admin1 creates 20 dashboards and shares them with 50 users.

You discover that a user named User1 can access all the dashboards.

You need to prevent User1 from accessing all the dashboards.

Solution: From the properties of each dashboard, you modify the Share settings.

Does this meet the goal?

A. Yes
B. No

**Correct Answer:** A
**Section: (none)**
**Explanation**

**Explanation/Reference:**
References:
http://radacad.com/dashboard-sharing-and-manage-permissions-in-power-bi-simple-but-useful