DUMPSARENA

Analyzing Data with Microsoft Power BI

Microsoft DA-100

Version Demo

Total Demo Questions: 10

Total Premium Questions: 143

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Topic Break Down

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QUESTION NO: 1

You have a prospective customer list that contains 1,500 rows of data. The list contains the following fields:

- First name
- Last name
- Email address
- State/Region
- Phone number

You import the list into Power Query Editor.

You need to ensure that the list contains records for each State/Region to which you want to target a marketing campaign.

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

NOTE: Each correct selection is worth one point.

A. Open the Advanced Editor.

B. Select Column quality.

C. Enable Column profiling based on entire dataset.

D. Select Column distribution.

E. Select Column profile.

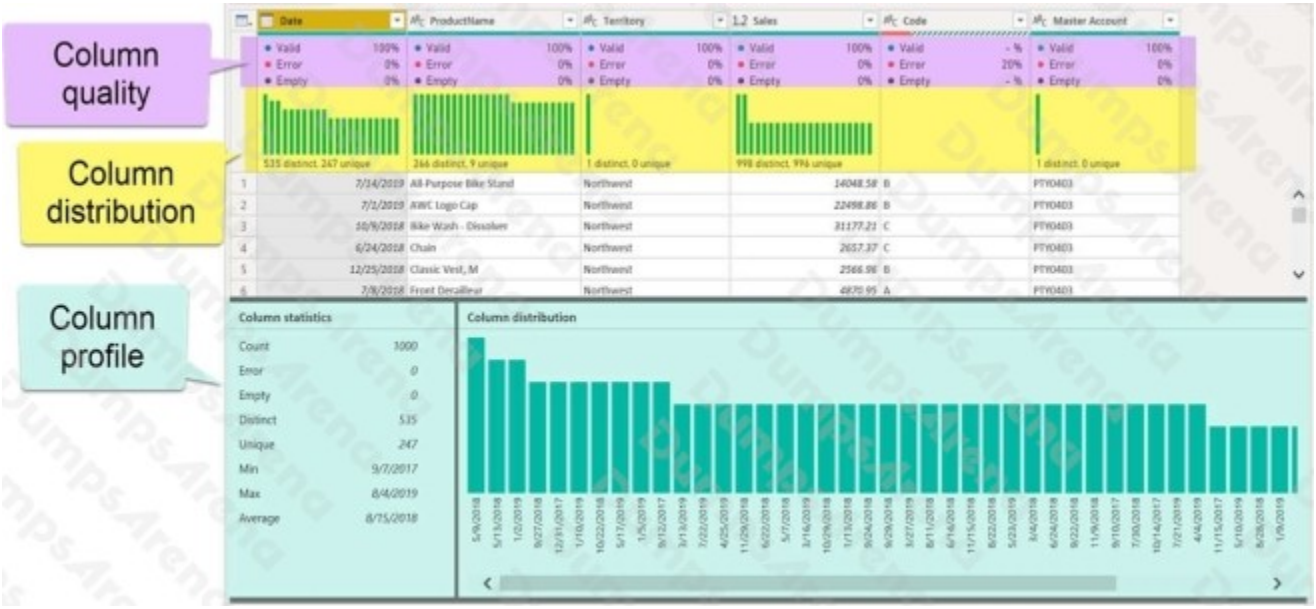
ANSWER: D E

Explanation:

Data Profiling, Quality & Distribution in Power BI / Power Query features

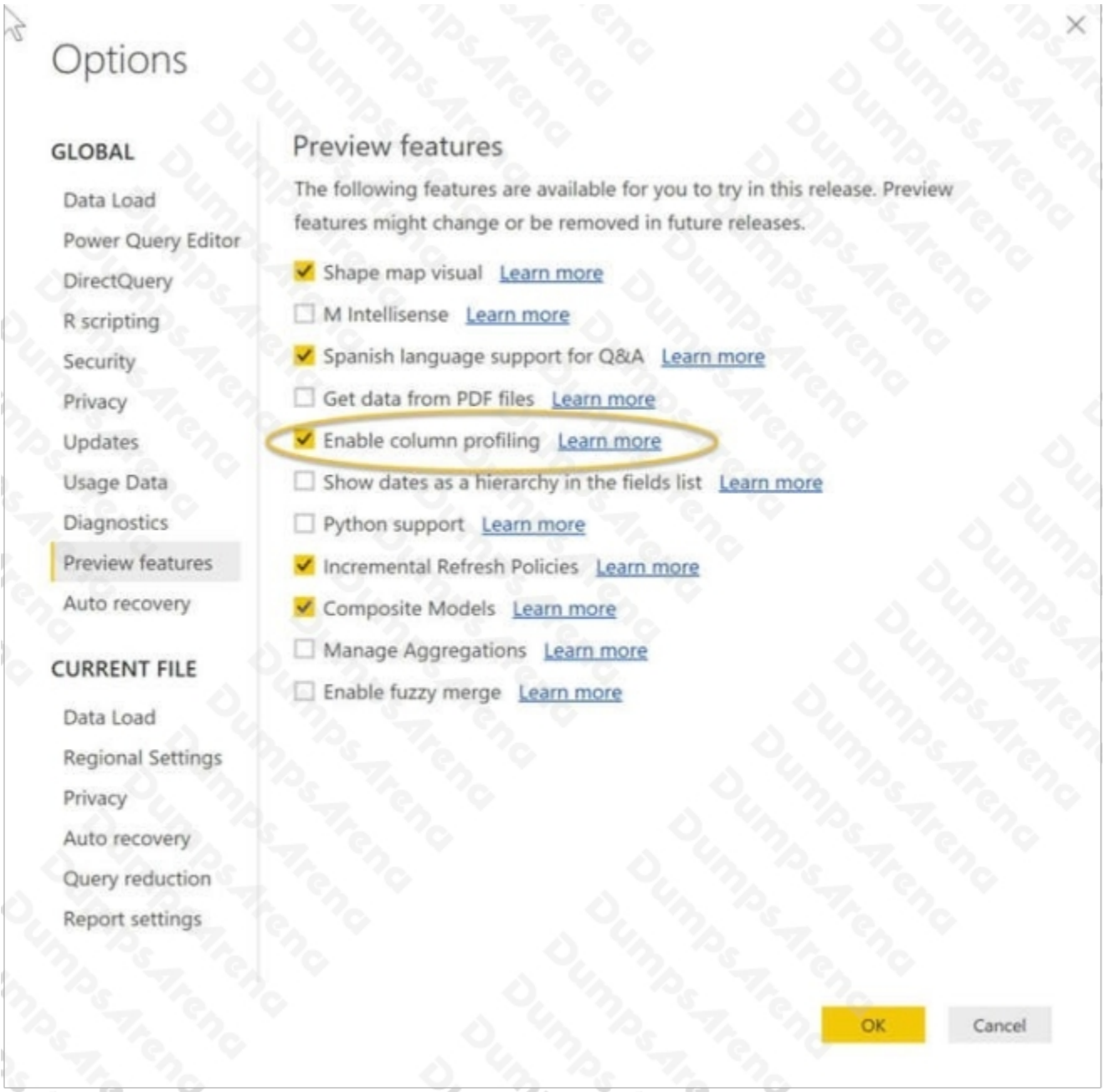
To enable these features, you need to go to the View tab à Data Preview Group à Check the following:

- Column quality
- Column profile
- Column distribution



- Column profile

Turn on the Column Profiling feature.



- Column distribution

Can use it to visually realize that your query is missing some data because of distinct and uniqueness counts.

Reference:

https://www.poweredsolutions.co/2019/08/13/data-profiling-quality-distribution-in-power-bi-power-query/
https://www.altentertraining.com/microsoft/power-bi/column-profiling-is-good/

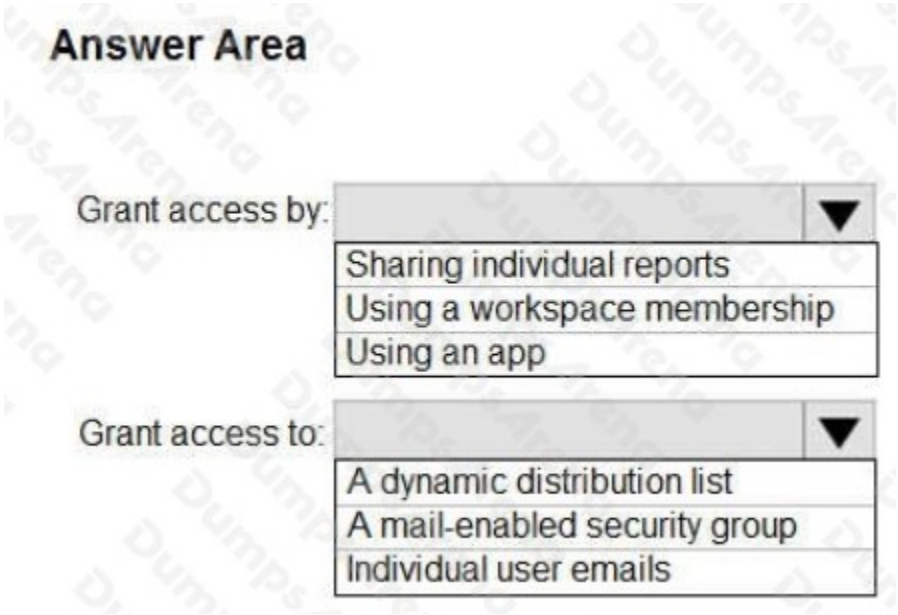
QUESTION NO: 2 - (HOTSPOT)

HOTSPOT

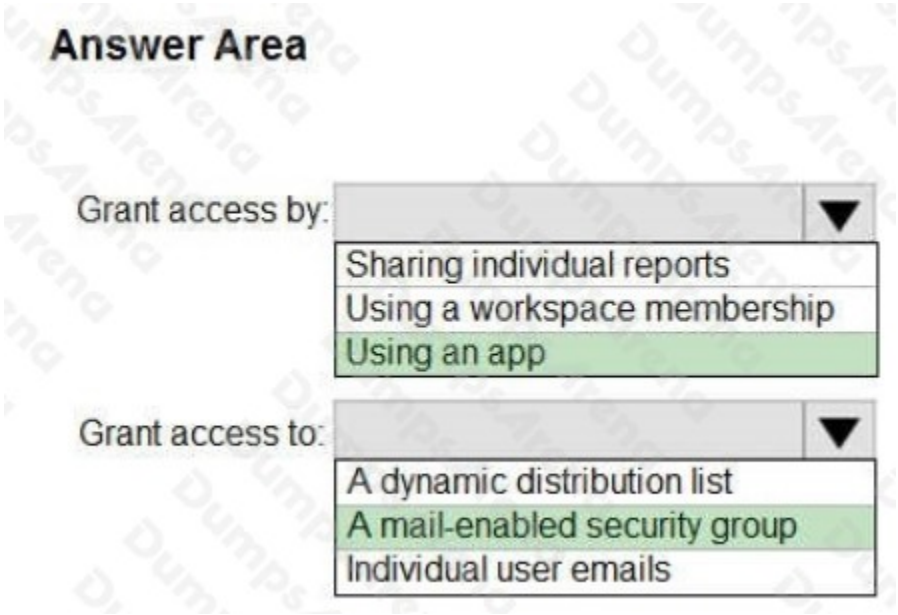
How should you distribute the reports to the board? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



ANSWER:



Explanation:

Box 1: Using an app Scenario:

The company wants to provide a single package of reports to the board that contains custom navigation and links to supplementary information.

Box 2: A mail-enabled security group Scenario: Security Requirements

The reports must be made available to the board from powerbi.com. A mail-enabled security group will be used to share information with the board.

Reference: https://docs.microsoft.com/en-us/power-bi/admin/service-admin-rls#using-rls-with-workspaces-in-power-bi

QUESTION NO: 3

You want to use Power Query Editor to quickly ascertain the percentage of empty values in each column.

You open the Column distribution Data Preview option

Does this action allow you to ascertain the percentage of empty values in each column?

A. Yes, it does

B. No, it does not

ANSWER: B

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

References: https://community.powerbi.com/t5/Community-Blog/Data-Profiling-in-Power-BI-Power-BI-Update-April-2019/ba-p/674555

QUESTION NO: 4 - (HOTSPOT)

HOTSPOT

You have two tables named Customers and Invoice in a Power BI model. The Customers table contains the following fields:

- CustomerID
- Customer City
- Customer State
- Customer Name

- Customer Address 1
- Customer Address 2
- Customer Postal Code

The Invoice table contains the following fields:

- Order ID
- Invoice ID
- Invoice Date
- Customer ID
- Total Amount
- Total Item Count

The Customers table is related to the Invoice table through the Customer ID columns. A customer can have many invoices within one month.

The Power BI model must provide the following information:

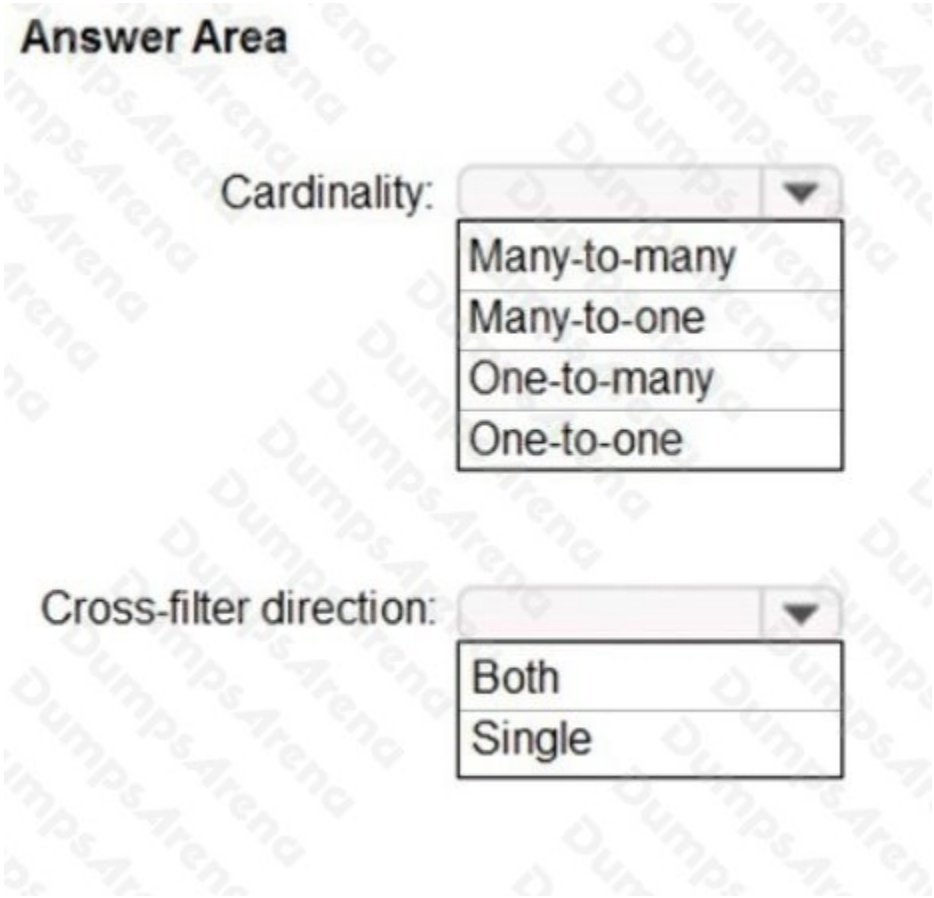
- The number of customers invoiced in each state last month
- The average invoice amount per customer in each postal code

You need to define the relationship from the Customers table to the Invoice table. The solution must optimize query performance.

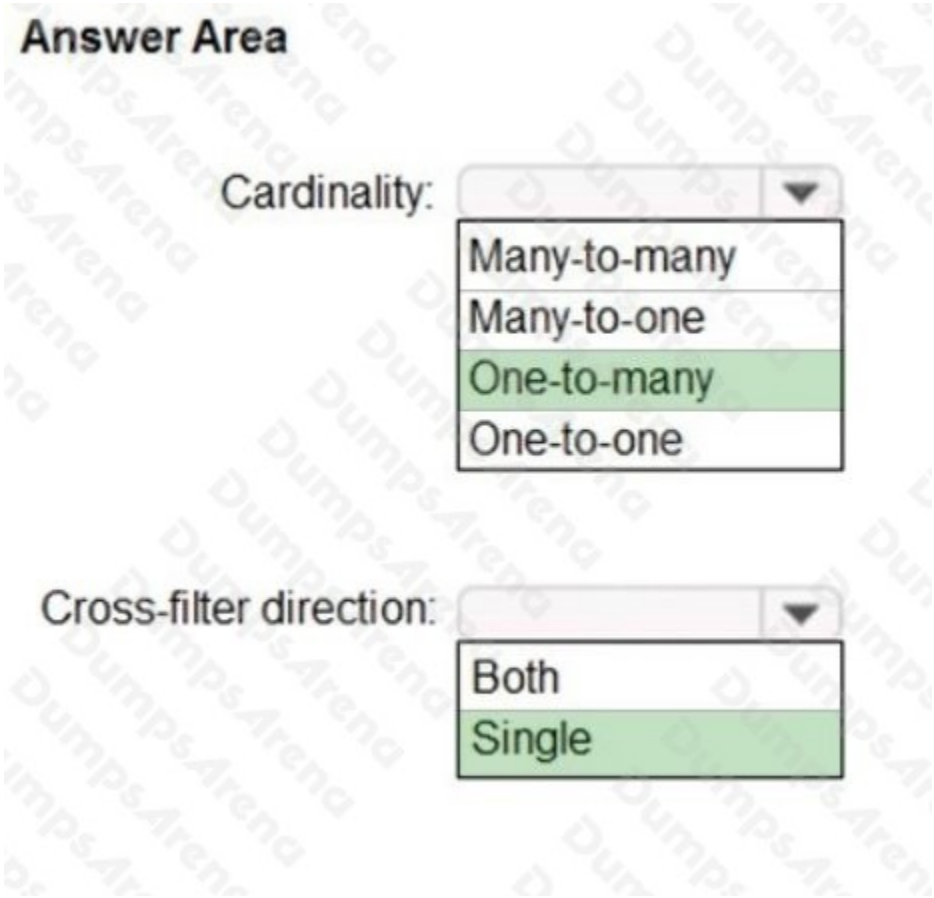
What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:


Answer Area
Cardinality:
Many-to-many
Many-to-one
One-to-many
One-to-one
Cross-filter direction:
Both
Single

ANSWER:



Explanation:

Box 1: One-to-many

A customer can have many invoices within one month.

Box 2: Single

For One-to-many relationships, the cross filter direction is always from the "one" side, and optionally from the "many" side (bi-directional). For

Single cross filter direction means "single direction", and Both means "both directions". A relationship that filters in both directions is commonly described as bi-directional.

Reference: https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-relationships-understand Visualize the Data

QUESTION NO: 5 - (DRAG DROP)

DRAG DROP

You have a Microsoft Power BI workspace.

You need to grant the user capabilities shown in the following table.

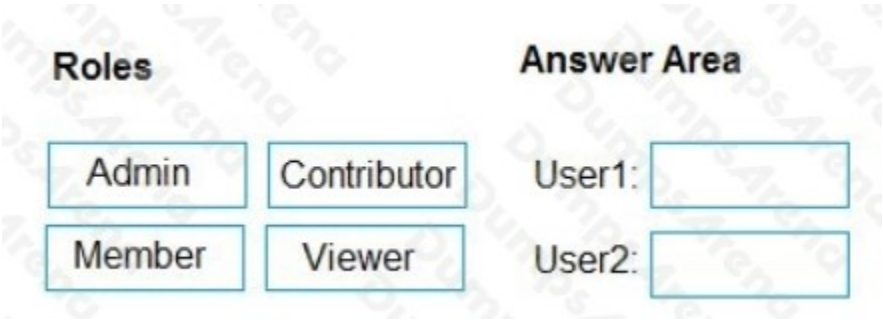
User name	Task
User1	Create and publish apps.
User2	Publish reports to the workspace and delete dashboards

The solution must use the principle of least privilege.

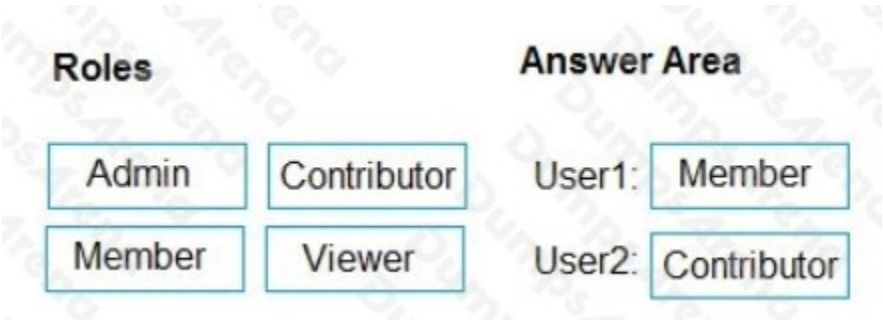
Which user role should you assign to each user? To answer, drag the appropriate roles to the correct users. Each role may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



ANSWER:



Explanation:

Box 1: Member

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.	✓	✓		
Publish and change permissions for an app	✓	✓		
Update an app.	✓	✓	If allowed [1]	

Incorrect Answers:

Contributors can update the app metadata but not publish a new app or change who has permission to the app. Box 2: Contributor

Capability	Admin	Member	Contributor	Viewer
Create, edit, and delete content in the workspace.	✓	✓	✓	
Publish reports to the workspace, delete content.	✓	✓	✓	

Reference:

https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-new-workspaces

QUESTION NO: 6

Which DAX expression should you use to get the ending balances in the balance sheet reports?

A. CALCULATE (
SUM(BalanceSheet [BalanceAmount]),
DATESQTD('Date'[Date])
)

B. CALCULATE (
SUM(BalanceSheet [BalanceAmount]),
LASTDATE('Date'[Date])
)

C. FIRSTNONBLANK ('Date' [Date]
SUM(BalanceSheet[BalanceAmount]))

D. CALCULATE (
MAX(BalanceSheet[BalanceAmount]),
LASTDATE('Date' [Date])
)

ANSWER: B

Explanation:

Scenario: At least one of the balance sheet reports in the quarterly reporting package must show the ending balances for the quarter, as well as for the previous quarter.

Semi-additive calculations, such as balance at end of month, use LASTDATE Functions.

Reference: https://docs.microsoft.com/en-us/learn/modules/create-measures-dax-power-bi/5-semi-additive-measures

QUESTION NO: 7

You have several Power BI visualizations that you want to embed in a public website.

Which two visualizations can you embed into the website?

NOTE: Each correct selection is worth one point.

A. Visualizations that use row-level security (RLS)

B. Visualizations that use datasets stored in Microsoft OneDrive for Business

C. Custom visualizations

D. Visualizations that contain reports shared to your user account

E. Q&A for Power BI visuals

F. Visualizations that use report-level DAX measures.

ANSWER: B C

Explanation:

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

QUESTION NO: 8

You have a table maned Sales that contains sales data by sales person.

You want to create a visual that shows the top 5 performing sales persons based on their total sales value.

You use the following DAX function:

TOPN(5, Sales, orderBy (SalesPerson, TotalSales))

Does this action show the top 5 performing sales persons based on sales value?

A. Yes, it does

B. No, it does not

ANSWER: B

Explanation:

Syntax is incorrect.

References: https://docs.microsoft.com/en-us/dax/topn-function-dax

QUESTION NO: 9

You have the tables shown in the following table.

Table name	Column name
Campaigns	Campaign_ID
	Name
Ads	Ad_id
	Name
	Campaign_id
Impressions	Impression_id
	Ad_id
	Site_name
	Impression_time
	Impression_date

The Impressions table contains approximately 30 million records per month.

You need to create an ad analytics system to meet the following requirements:

▪ Present ad impression counts for the day, campaign, and Site_name. The analytics for the last year are required. ▪ Minimize the data model size.

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

NOTE: Each correct selection is worth one point.

A. Group the impressions by Ad_id, Site_name, and Impression_date. Aggregate by using the CountRows function.

B. Create one-to-many relationships between the tables.

C. Create a calculated measure that aggregates by using the COUNTROWS function.

D. Create a calculated table that contains Ad_id, Site_name, and Impression_date.

ANSWER: A B

QUESTION NO: 10

You have four sales regions. Each region has multiple sales managers.

You implement row-level security (RLS) in a data model. You assign the relevant distribution lists to each role.

You have sales reports that enable analysis by region. The sales managers can view the sales records of their region. The sales managers are prevented from viewing records from other regions.

A sales manager changes to a different region.

You need to ensure that the sales manager can see the correct sales data.

What should you do?

A. Change the Microsoft Power BI license type of the sales manager.

B. From Microsoft Power BI Desktop, edit the Row-Level Security setting for the reports.

C. Request that the sales manager be added to the correct Azure Active Directory group.

D. Manage the permissions of the underlying dataset.

ANSWER: C

Explanation:

Using AD Security Groups, you no longer need to maintain a long list of users.

All that you will need to do is to put in the AD Security group with the required permissions and Power BI will do the REST! This means a small and simple security file with the permissions and AD Security group.

Note: Configure role mappings

Once published to Power BI, you must map members to dataset roles.

Members can be user accounts or security groups. Whenever possible, we recommend you map security groups to dataset roles. It involves managing security group memberships in Azure Active Directory. Possibly, it delegates the task to your network administrators.

Reference:

https://www.fourmoo.com/2018/02/20/dynamic-row-level-security-is-easy-with-active-directory-security-groups/
https://docs.microsoft.com/en-us/power-bi/guidance/rls-guidance