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**Vendor:**Microsoft

**Exam Code:**DA-100

**Exam Name:**Analyzing Data with Microsoft Power BI

**Version:**Demo

## QUESTION 1

You create a dataset sourced from dozens of flat files in Azure Blob storage. The dataset uses incremental refresh.

From powerbi.com, you deploy the dataset and several related reports to Microsoft Power BI Premium capacity.

You discover that the dataset refresh fails after the refresh runs out of resources.

What is a possible cause of the issue?

- A. Query folding is not occurring.
- B. You selected Only refresh complete periods.
- C. The data type of the column used to partition the data changed.
- D. A filter is missing on the report.

Correct Answer: A

The Power BI service partitions data based on date range. This is what enables only certain partitions to be refreshed incrementally. To make this work, the partition filter conditions are pushed down to the source system by including them in the queries. Using Power Query terminology, this is called "query folding". It is not recommended that incremental refresh is used when the required query folding cannot take place.

Reference: <https://powerbi.microsoft.com/en-us/blog/incremental-refresh-query-folding/>

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## QUESTION 2

You create a dashboard by using the Microsoft Power BI Service. The dashboard contains a card visual that shows total sales from the current year. You grant users access to the dashboard by using the viewer role on the workspace. A user wants to receive daily notifications of the number shown on the card visual. You need to automate the notifications. What should you do?

- A. Share the dashboard to the user.
- B. Create a subscription.
- C. Create a data alert.
- D. Tag the user in a comment.

Correct Answer: B

You can subscribe yourself and your colleagues to the report pages, dashboards, and paginated reports that matter most to you. Power BI e-mail subscriptions allow you to:

Decide how often you want to receive the emails: daily, weekly, hourly, monthly, or once a day after the initial data refresh.

Choose the time you want to receive the email, if you choose daily, weekly, hourly, or monthly.

Note: Email subscriptions don't support most custom visuals. The one exception is those custom visuals that have

been certified. Email subscriptions don't support R-powered custom visuals at this time.

Reference:

<https://docs.microsoft.com/en-us/power-bi/collaborate-share/service-report-subscribe> <https://docs.microsoft.com/en-us/power-bi/create-reports/service-set-data-alerts>

### QUESTION 3

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



You need to show the relationship between Total Cost and Total Sales over time. What should you do?

- A. Add a play axis.
- B. Add a slicer for the year.
- C. From the Analytics pane, add an Average line.
- D. Create a DAX measure that calculates year-over-year growth.

Correct Answer: A

### QUESTION 4

You have a large dataset that contains more than 1 million rows. The table has a datetime column named Date.

You need to reduce the size of the data model.

What should you do?

- A. Round the hour of the Date column to startOfHour.
- B. Change the data type of the Date column to Text.
- C. Trim the Date column.
- D. Split the Date column into two columns, one that contains only the time and another that contains only the date.

Correct Answer: D

We have to separate date and time tables. Also, we don't need to put the time into the date table, because the time is repeated every day.

Split your DateTime column into a separate date and time columns in fact table, so that you can join the date to the date table and the time to the time table. The time need to be converted to the nearest round minute or second so that every time

in your data corresponds to a row in your time table.

Reference:

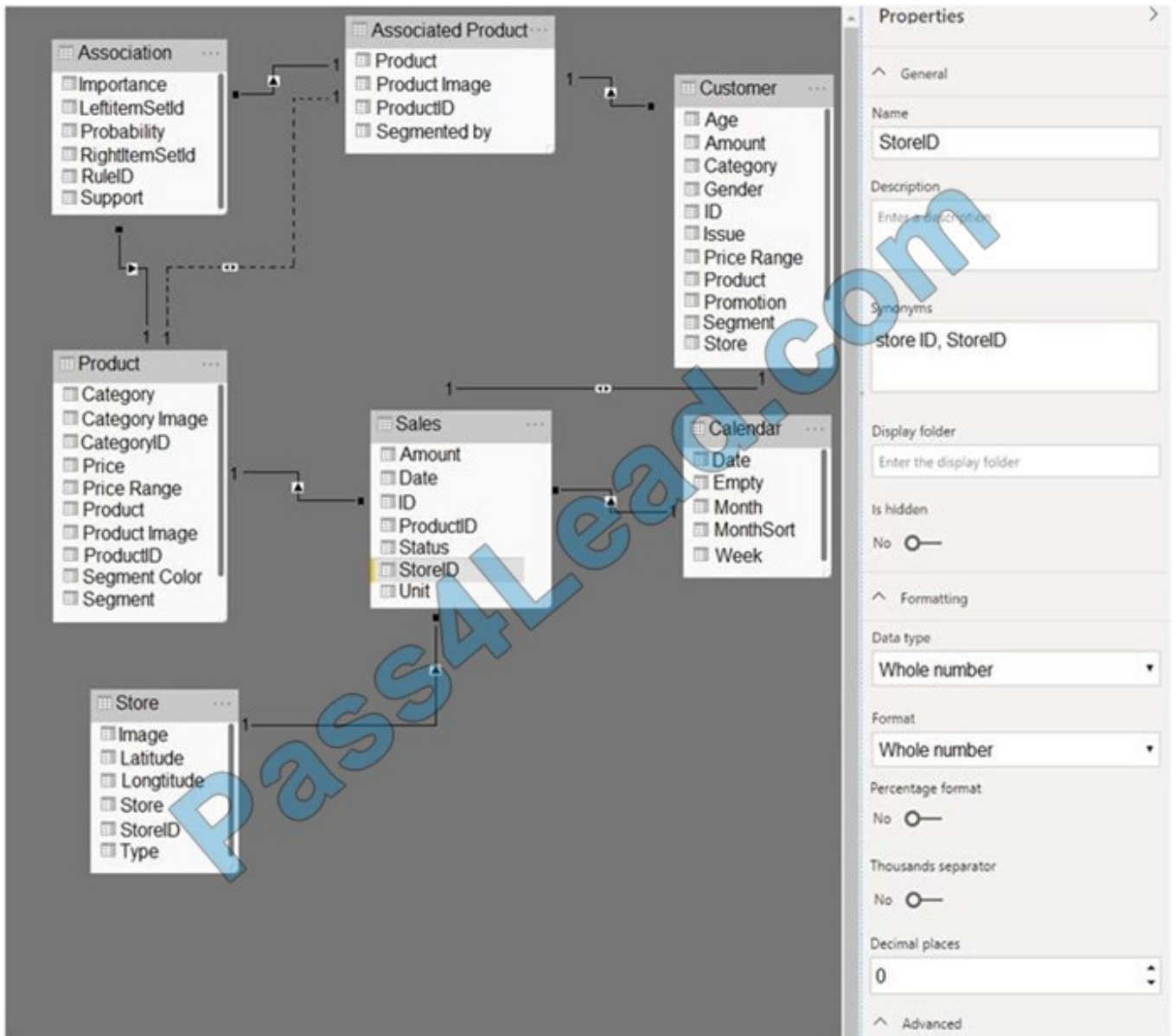
<https://intellipaat.com/community/6461/how-to-include-time-in-date-hierarchy-in-power-bi>

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## QUESTION 5

### HOTSPOT

You have the Power BI data model 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

When a table visual is added to a blank report page and populated by using the StoreID field from the Sales table, a **[answer choice]** is displayed.

▼
distinct count of the StoreID values
list of all the StoreID values
list of the distinct StoreID values
sum of the StoreID values

Adding a page filter of `Sales[StoreID] = 1` will filter the values displayed on the page from **[answer choice]**.

▼
all the tables related to the Sales table
only the Sales table
only the Store table
the Sales table and the Customer table

Correct Answer:

## Answer Area

When a table visual is added to a blank report page and populated by using the StoreID field from the Sales table, a **[answer choice]** is displayed.

▼
distinct count of the StoreID values
list of all the StoreID values
list of the distinct StoreID values
sum of the StoreID values

Adding a page filter of `Sales[StoreID] = 1` will filter the values displayed on the page from **[answer choice]**.

▼
all the tables related to the Sales table
only the Sales table
only the Store table
the Sales table and the Customer table

## QUESTION 6

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

1.  
Customer ID
- 2.

Customer Name

3.

Phone

4.

Email Address

5.

Address ID

Address contains the following columns:

1.

Address ID

2.

Address Line 1

3.

Address Line 2

4.

City

5.

State/Region

6.

Country

7.

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.

Correct Answer: A

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>

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## QUESTION 7

### HOTSPOT

Your company has affiliates who help the company acquire customers.

You build a report for the affiliate managers at the company to assist them in understanding affiliate performance.

The managers request a visual showing the total sales value of the latest 50 transactions for each affiliate. You have a data model that contains the following tables.

Table name	Column name
Transactions	TransactionDate
	ItemsOrdered
	Amount
	TransactionID
Affiliate	AffiliateID
	Name

You need to develop a measure to support the visual.

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.

Hot Area:



Revenue Last 50 Transactions =

▼	(
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	(Transactions[Amount]),
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	(50, Transactions, Transactions
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	TransactionID]
[Amount],	
[ItemsOrdered],	
[TransactionDate],	

DESC)

)

Correct Answer:

Revenue Last 50 Transactions =

▼	(
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	(Transactions[Amount]),
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	(50, Transactions, Transactions
CALCULATE	
CONCATENATEX	
SUM	
SUMX	
TOPN	

▼	TransactionID]
[Amount],	
[ItemsOrdered],	
[TransactionDate],	

DESC)

)

Box 1: CALCULATE

Start with CALCULATE and use a SUMX.

CALCULATE evaluates an expression in a modified filter context.

Box 2: SUMX

SUMX returns the sum of an expression evaluated for each row in a table. The following sample creates a measure with the sales of the top 10 sold products. = SUMX(TOPN(10, SUMMARIZE(Product, [ProductKey], "TotalSales", SUMX

(RELATED(InternetSales\_USD[SalesAmount\_USD]), InternetSales\_USD[SalesAmount\_USD]) +  
SUMX(RELATED(ResellerSales\_USD[SalesAmount\_USD]), ResellerSales\_USD[SalesAmount\_USD]))

Box 3: TOPN

TOPN returns the top N rows of the specified table.

Box 4: [TransactionDate]

TOPN Syntax: TOPN(, , [[, ]])...

The orderBy\_expression: Any DAX expression where the result value is used to sort the table and it is evaluated for each row of table.

Reference:

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

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## QUESTION 8

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

1.  
First name
2.  
Last name
3.  
Email address
4.  
State/Region
5.  
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.

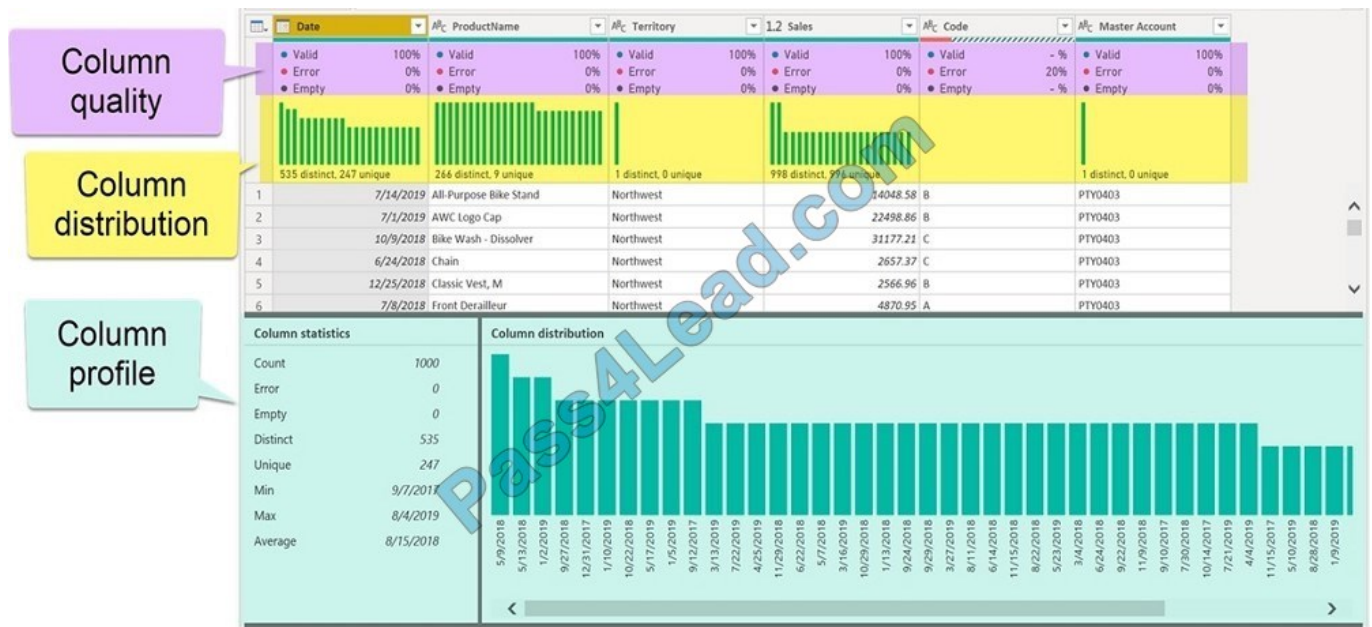
NOTE: Each correct selection is worth one point.

- 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.

Correct Answer: DE

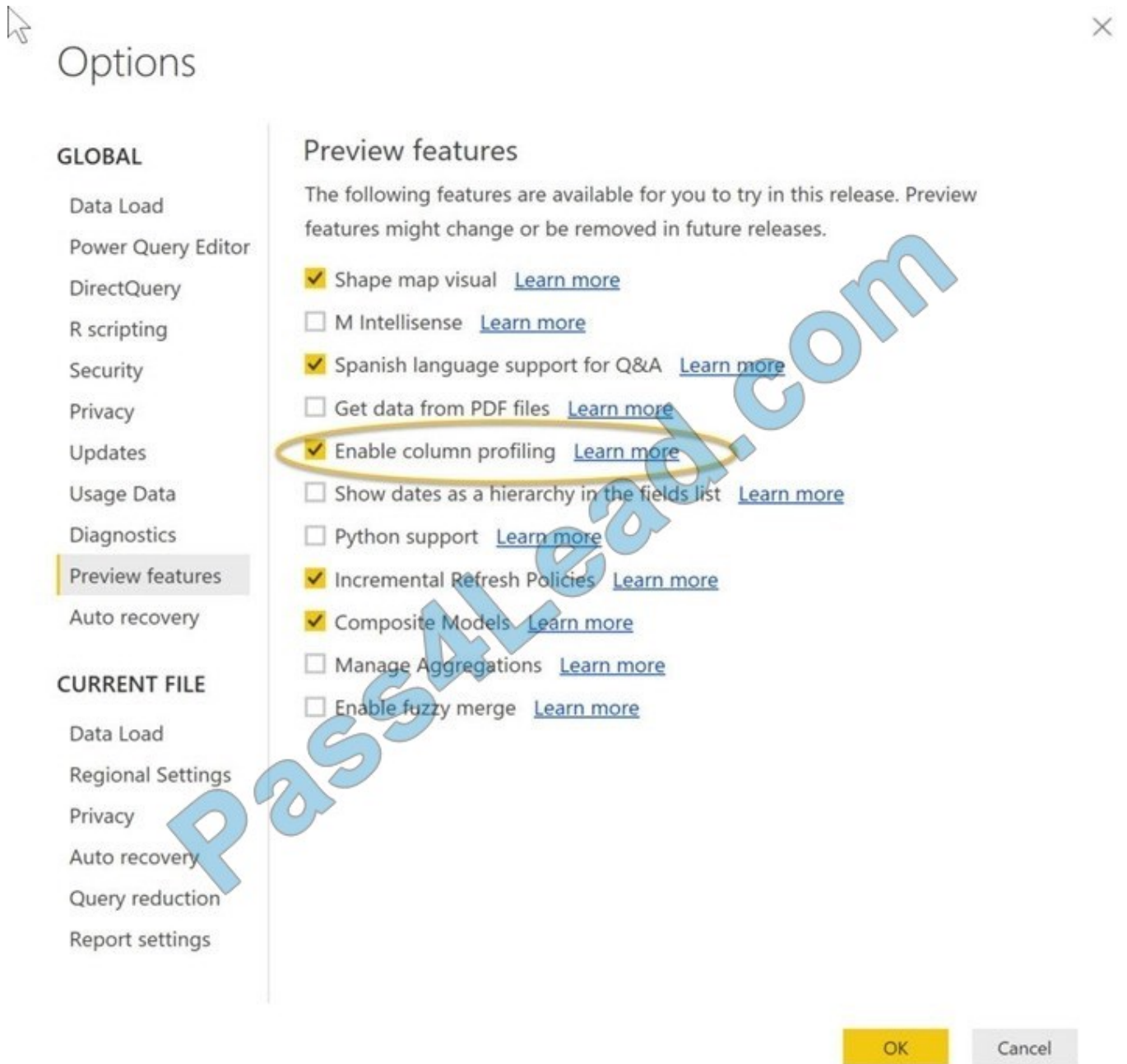
Data Profiling, Quality and Distribution in Power BI / Power Query features To enable these features, you need to go to the View tab a Data Preview Group a Check the following:

- 1. Column quality
- 2. Column profile
- 3. 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/>

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## QUESTION 9

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

Correct Answer: B

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/>

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## QUESTION 10

HOTSPOT

You are creating a column chart visualization.

You configure groups as shown in the Groups exhibit. {Click the Groups tab.}

### Groups

Name:  Field:

Group type:  Min value:

Bin Type:  Max value:

Binning splits numeric or date/time data by an amount you specify. The default bin count is calculated based on your data.

Bin count:  Bin size:

The visualization appears as shown in the Chart exhibit. (Click the Chart 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.

Hot Area:

**Answer Area**

Statements	Yes	No
The data is segmented into 10 groups.	<input type="radio"/>	<input type="radio"/>
The data was split into deciles.	<input type="radio"/>	<input type="radio"/>
To increase the bin size, you must decrease the bin count.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
The data is segmented into 10 groups.	<input checked="" type="radio"/>	<input type="radio"/>
The data was split into deciles.	<input checked="" type="radio"/>	<input type="radio"/>
To increase the bin size, you must decrease the bin count.	<input type="radio"/>	<input checked="" type="radio"/>

### QUESTION 11

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. From Microsoft Power BI Desktop, edit the Row-Level Security setting for the reports.
- B. Change the Microsoft Power BI license type of the sales manager.
- C. Manage the permissions of the underlying dataset
- D. Request that the sales manager be added to the correct Azure Active Directory group.

Correct Answer: D

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>

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## QUESTION 12

Which two types of visualizations can be used in the balance sheet reports to meet the reporting goals? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. a line chart that shows balances by quarter filtered to account categories that are long-term liabilities.
- B. a clustered column chart that shows balances by date (x-axis) and account category (legend) without filters.
- C. a clustered column chart that shows balances by quarter filtered to account categories that are long-term liabilities.
- D. a pie chart that shows balances by account category without filters.
- E. a ribbon chart that shows balances by quarter and accounts in the legend.

Correct Answer: AC



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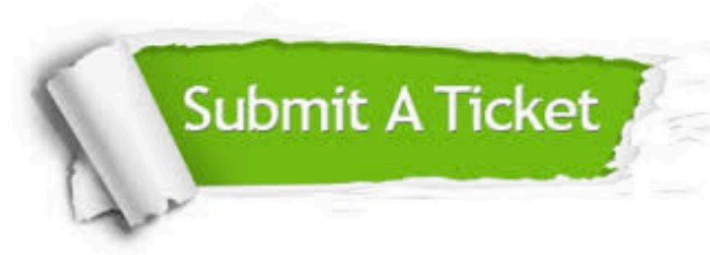
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