

# Microsoft

## Exam Questions DA-100

Analyzing Data with Microsoft Power BI



### NEW QUESTION 1

- (Exam Topic 4)

You have a CSV file that contains user complaints. The file contains a column named Logged. Logged contains the date and time each complaint occurred. The data in Logged is in the following format:

at 08:59.

You need to be able to analyze the complaints by the logged date and use a built-in date hierarchy. D18912E1457D5D1DDCBD40AB3BF70D5D

What should you do?

- A. Change the data type of the Logged column to Date.
- B. Apply a transform to extract the last 11 characters of the Logged column and set the data type of the new column to Date.
- C. Create a column by example that starts with 2018-12-31 and set the data type of the new column to Date.
- D. Apply a transform to extract the first 11 characters of the Logged column.

**Answer: C**

### NEW QUESTION 2

- (Exam Topic 4)

You have a query named Customer that imports CSV files from a data lake. The query contains 500 rows as shown in the exhibit. (Click the Exhibit tab.)

	Source.Name	Customer ID	Modified Date	Customer	Category
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
1	Customer20200104.csv	1	1/1/2020 12:00:00 AM	Tailspin Toys (Head Office)	Novelty Shop
2	Customer20200104.csv	2	1/1/2020 12:00:00 AM	Tailspin Toys (Sylvanite, MT)	Novelty Shop
3	Customer20200104.csv	3	1/1/2020 12:00:00 AM	Tailspin Toys (Peeples Valley, AZ)	Novelty Shop
4	Customer20200104.csv	4	1/4/2020 12:00:00 AM	Tailspin Toys (Medicine Lodge, KS)	Novelty Shop
5	Customer20200104.csv	5	1/4/2020 12:00:00 AM	Tailspin Toys (Gasport, NY)	Novelty Shop
6	Customer20200104.csv	6	1/4/2020 12:00:00 AM	Tailspin Toys (Jessie, ND)	Novelty Shop
7	Customer20200104.csv	7	1/4/2020 12:00:00 AM	Tailspin Toys (Frankewing, TN)	Novelty Shop
8	Customer20200104.csv	8	1/4/2020 12:00:00 AM	Tailspin Toys (Bow Mar, CO)	Novelty Shop
9	Customer20200104.csv	9	1/4/2020 12:00:00 AM	Tailspin Toys (Netcong, NJ)	Novelty Shop
10	Customer20200104.csv	10	1/4/2020 12:00:00 AM	Tailspin Toys (Wimbledon, ND)	Novelty Shop
11	Customer20200112.csv	1	1/12/2020 12:00:00 AM	Tailspin Toys (Head Office)	Novelty Shop
12	Customer20200112.csv	2	1/12/2020 12:00:00 AM	Tailspin Toys (Sylvanite, MT)	Novelty Shop
13	Customer20200112.csv	3	1/12/2020 12:00:00 AM	Tailspin Toys (Peeples Valley, AZ)	Novelty Shop
14	Customer20200112.csv	4	1/12/2020 12:00:00 AM	Tailspin Toys (Medicine Lodge, KS)	Novelty Shop
15	Customer20200112.csv	5	1/12/2020 12:00:00 AM	Tailspin Toys (Gasport, NY)	Novelty Shop
16	Customer20200112.csv	2	1/22/2020 12:00:00 AM	Tailspin Toys (Sylvanite, MT)	Novelty Shop
17	Customer20200112.csv	7	1/22/2020 12:00:00 AM	Tailspin Toys (Frankewing, TN)	Novelty Shop
18	Customer20200112.csv	8	1/22/2020 12:00:00 AM	Tailspin Toys (Bow Mar, CO)	Novelty Shop
19	Customer20200112.csv	9	1/22/2020 12:00:00 AM	Tailspin Toys (Netcong, NJ)	Novelty Shop
20	Customer20200112.csv	10	1/22/2020 12:00:00 AM	Tailspin Toys (Wimbledon, ND)	Novelty Shop

Each file contains deltas of any new or modified rows from each load to the data lake. Multiple files can have the same customer ID.

You need to keep only the last modified row for each customer ID.

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

#### Actions

Filter the Customer query on Modified Date is Latest.

Merge the CustomerGrouped query into the Customer query based on Customer ID and Modified Date by using a left outer join.

Remove duplicates in the Customer ID column.

Duplicate the Customer query and name the new query CustomerGrouped.

Group the CustomerGrouped query by Customer ID and output the max Modified Date value into a column named Modified Date.

Merge the two queries based on Customer ID and Modified Date by using an inner join.

#### Answer Area

⏪
⏩

⬅
➡

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- 1) Duplicate Customer query
- 2) Group by CustId by Max ModifiedDate (only 2 columns to keep)
- 3) Merge two queries on CustId and ModifiedDate inner join (to retrieve other customer informations related to latest Date)

**NEW QUESTION 3**

- (Exam Topic 4)

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

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

You have several reports and dashboards in a workspace.

You need to grant all organizational users read access to a dashboard and several reports. Solution: You enable included in app for all assets.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 4**

- (Exam Topic 3)

You need to create the On-Time Shipping report. The report must include a visualization that shows the percentage of late orders.

Which type of visualization should you create?

- A. bar chart
- B. scatterplot
- C. pie chart

**Answer:** A

**Explanation:**

Scenario: The On-Time Shipping report will show the following metrics for a selected shipping month or quarter:

The percentage of orders that were shipped late by country and shipping region Customers that had multiple late shipments during the last quarter

Note: Bar and column charts are some of the most widely used visualization charts in Power BI. They can be used for one or multiple categories. Both these chart types represent data with rectangular bars, where the size of the bar is proportional to the magnitude of data values.

The difference between the two is that if the rectangles are stacked horizontally, it is called a bar chart. If the rectangles are vertically aligned, it is called a column chart.

Reference:

<https://www.pluralsight.com/guides/bar-and-column-charts-in-power-bi>

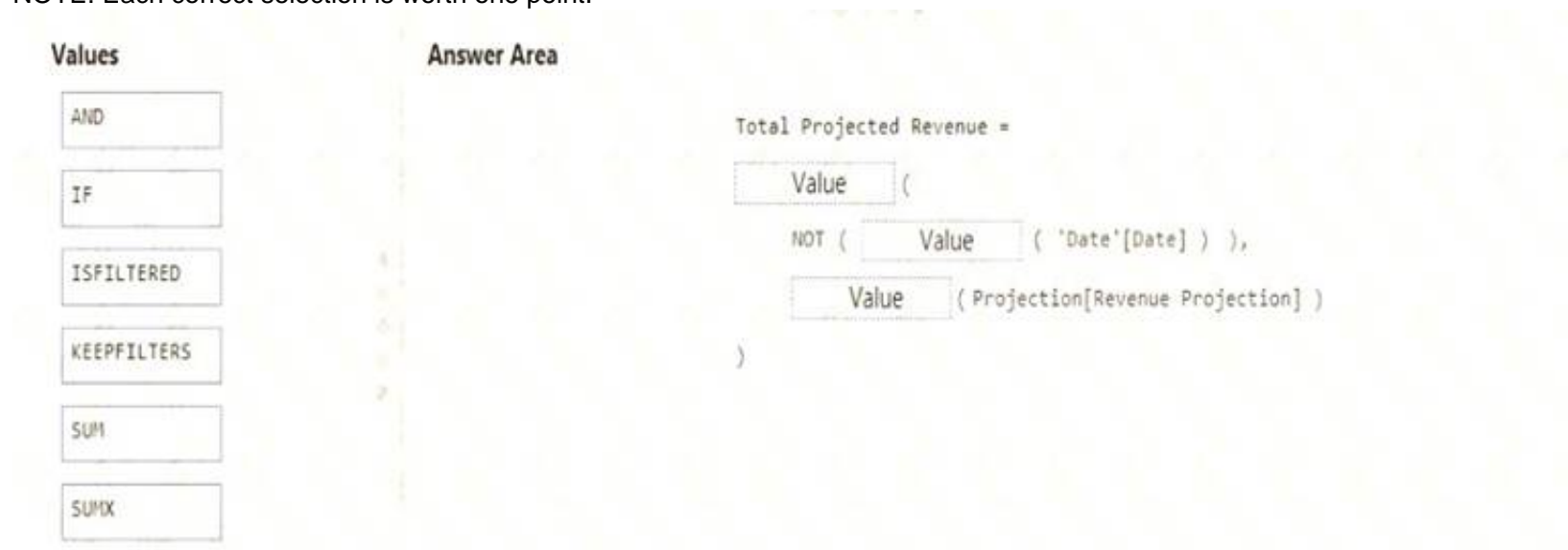
**NEW QUESTION 5**

- (Exam Topic 2)

You need to create a DAX measure in the data model that only allows users to see projections at the appropriate levels of granularity.

How should you complete the measure? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Scenario: Revenue projections are set at the monthly level and summed to show projections for the quarter. Box 1: IF

Box 2: ISFILTERED

ISFILTERED returns TRUE when columnName is being filtered directly. If there is no filter on the column or if the filtering happens because a different column in the same table or in a related table is being filtered then the function returns FALSE.

Box 3: SUM

Reference:

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



### NEW QUESTION 6

- (Exam Topic 2)

You need to calculate the last day of the month in the balance sheet data to ensure that you can relate the balance sheet data to the Date table. Which type of calculation and which formula should you use? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

#### Answer Area

Type of calculation:

▼
A DAX calculated column
A DAX calculated measure
An M custom column

Formula:

▼
Date.EndOfMonth(#date([Year], [Month], 1))
Date.EndOfQuarter(#date([Year], [Month], 1))
ENDOFQUARTER(DATE('BalanceSheet'[Year],BalanceSheet[Month],1),0)

- A. Mastered  
B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: A DAX Calculated measure

Box 2: Date.EndOfQuarter(#date([Year],[Mont],1))

ENDOFQUARTER returns the last date of the quarter in the current context for the specified column of dates. The following sample formula creates a measure that returns the end of the quarter, for the current context.

= ENDOFQUARTER(DateTime[DateKey]) Reference:

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

### NEW QUESTION 7

- (Exam Topic 1)

You need to create the required relationship for the executive's visual. What should you do before you can create the relationship?

- A. Change the data type of Sales[region\_id] to Whole Number.  
B. In the Sales table, add a measure for sum(sales\_amount).  
C. Change the data type of sales[sales\_id] to Text.  
D. Change the data type of sales [region\_id] to Decimal Number.

**Answer:** A

#### Explanation:

Scenario: Executives require a visual that shows sales by region.

Need to change the sales\_id column from Varchar to Whole Number (Integer).

### NEW QUESTION 8

- (Exam Topic 1)

You need to create a calculated column to display the month based on the reporting requirements. Which DAX expression should you use?

- A. FORMAT('Date'[date], "MMM YYYY")  
B. FORMAT('Date' [date], "M YY")  
C. FORMAT('Date'[date\_id], "MMM") & "" & FORMAT('Date'[year], "#")  
D. FORMAT('Date' [date\_id], "MMM YYYY")

**Answer:** A

### NEW QUESTION 9

- (Exam Topic 1)

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

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

## Answer Area

Visualization type: ▼

Card
Donut chart
Gauge
Key influencers
KPI

Indicator: ▼

Date[month]
Sales[sales_amount]
Sales[sales_id]
Targets[sales_target]
Weekly_Returns[total_returns]

Trend axis: ▼

Date[month]
Sales[sales_amount]
Sales[sales_id]
Targets[sales_target]
Weekly_Returns[total_returns]

Target goals: ▼

Date[month]
Sales[sales_amount]
Sales[sales_id]
Targets[sales_target]
Weekly_Returns[total_returns]

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

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

Box 1: KPI

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

Box 2: Sales[sales\_amount]

Box 3: Date[month]

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

Reference:

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

## NEW QUESTION 10

- (Exam Topic 4)

You have the following three versions of an Azure SQL database:

- > Test
- > Production
- > Development

You have a dataset that uses the development database as a data source.

You need to configure the dataset so that you can easily change the data source between the development, test, and production database servers from powerbi.com. Which should you do?

- A. Create a JSON file that contains the database server name
- B. Import the JSON file to the dataset.
- C. Create a parameter and update the queries to use the parameter.
- D. Create a query for each database server and hide the development tables.
- E. Set the data source privacy level to Organizational and use the ReplaceValue Power Query M function.

**Answer:** B

### Explanation:

<https://docs.microsoft.com/en-us/learn/modules/create-manage-workspaces-power-bi/4-development-lifecycle-s>

## NEW QUESTION 10

- (Exam Topic 4)

You have a folder of monthly transaction extracts.

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

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

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

### Combine Files

Specify the settings for each file. [Learn more](#)

Sample File: First file

File Origin: 1252: Western European (Windows)

Delimiter: Comma

Data Type Detection: Based on entire dataset

ID	Date	CustomerID	Amount
1	01/01/2018 08:00:00	5	28.99
2	01/01/2018 18:00:00	10	31.88
3	02/01/2018 08:00:00	15	22.99
4	02/01/2018 18:00:00	25	14.25
5	03/01/2018 08:00:00	35	85
6	03/01/2018 18:00:00	45	47.74
7	04/01/2018 08:00:00	55	76.66
8	04/01/2018 18:00:00	51	99.99
9	05/01/2018 08:00:00	52	10.99
10	05/01/2018 18:00:00	58	85

☒ Skip files with errors
 OK Cancel

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

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
 Graphical user interface, text, application Description automatically generated  
 Box 1: Yes  
 The four columns used in the 2018 transactions are already displayed.  
 Box 2: Yes  
 The columns used are based on the entire dataset. The additional columns in the 2019 files will be detected. Box 3: Yes  
 Note: Under the hoods, Power BI will automatically detect which delimiter to use, and may even promote the first row as headers. You can manually change the delimiter, or define how Power BI should handle data types. You can set it to automatically detect data types based on first 200 rows, or the entire dataset or you can even opt out the detection of data types.

**NEW QUESTION 12**  
 - (Exam Topic 4)

You are using existing reports to build a dashboard that will be viewed frequently in portrait mode on mobile phones. You need to build the dashboard. Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



Actions

Pin items from the reports to the dashboard.

Rearrange, resize, or remove items from the phone view.

Change the dashboard view to **Phone view**.

Open the dashboard.

Create a phone layout for the existing reports.

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

Pin items from the reports to the dashboard.

Rearrange, resize, or remove items from the phone view.

Change the dashboard view to **Phone view**.

Open the dashboard.

Create a phone layout for the existing reports.

Answer Area

NEW QUESTION 15

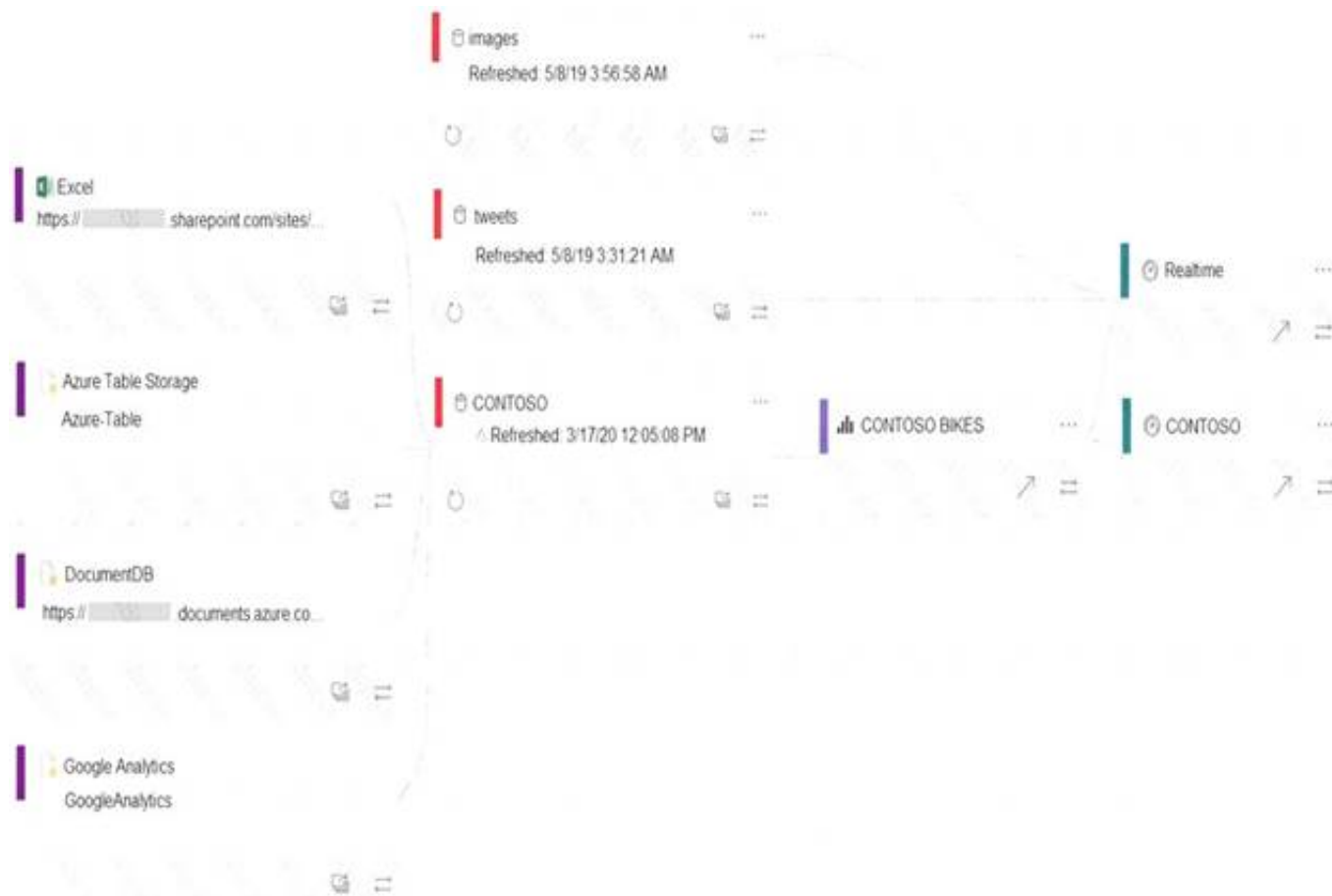
- (Exam Topic 4)  
You have a Microsoft Power BI report. The size of PBIX file is 550 MB. The report is accessed by using an App workspace in shared capacity of powerbi.com. The report uses an imported dataset that contains one fact table. The fact table contains 12 million rows. The dataset is scheduled to refresh twice a day at 08:00 and 17:00.  
The report is a single page that contains 15 custom visuals and 10 default visuals.  
Users say that the report is slow to load the visuals when they access and interact with the report You need to recommend a solution to improve the performance of the report.  
What should you recommend?

- A. Split the visuals onto multiple pages.
- B. Implement row-level security (RLS).
- C. Replace the default visuals with custom visuals.
- D. Increase the number of times that the dataset is refreshed.

Answer: A

NEW QUESTION 19

- (Exam Topic 4)  
You have the data lineage shown in the following exhibit.



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

The CONTOSO dataset is consumed directly by the

	▼
CONTOSO BIKES report	
CONTOSO dashboard	
Realtime dashboard	

The Realtime dashboard depends on

	▼
one dataset	
two datasets	
three datasets	
four datasets	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Text, table Description automatically generated with medium confidence

Box 1: CONTOSO BIKES report Box 2: three datasets

Images, tweets and the Contoso datasets.

**NEW QUESTION 23**

- (Exam Topic 4)

You have a report that contains a bar chart and a column chart. The bar chart shows customer count by customer segment. The column chart shows sales by month.

You need to ensure that when a segment is selected in the bar chart, you see which portion of the total sales for the month belongs to the customer segment. How should the visual interactions be set on the column chart when the bar chart is selected?

- A. no impact
- B. highlight
- C. filter

**Answer: B**

**Explanation:**

HIGHLIGHT as the question required us to "you see which portion of the total sales for the month belongs to the customer segment" -- in order to see WHICH portion, you need to still see the whole visual, highlight is most appropriate. If the requirement stated to ONLY SEE THE PORTION IT RELATES TO then filter would be appropriate.

**NEW QUESTION 26**

- (Exam Topic 4)

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

You have an imported dataset that has a dynamic row-level security (RLS) role named Sales. The Sales role filters sales transaction data by salesperson.

Salespeople must see only the data from their region.

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

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



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

**Answer: B**

**Explanation:**

Validate the roles within Power BI Desktop

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

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

- Select a role you created, and then select OK to apply that role. The report renders the data relevant for that role.
- You can also select Other user and supply a given user. Graphical user interface, application Description automatically generated
- Select OK. The report renders based on what that user can see.

Reference:

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

**NEW QUESTION 28**

- (Exam Topic 4)

You are building a Power BI report to analyze customer segments.

You need to identify customer segments dynamically based on the Bounce Rate across dimensions such as source, geography, and demographics. The solution must minimize analysis effort.

Which type of visualization should you use?

- A. decomposition tree
- B. funnel chart
- C. Q&A
- D. key influencers

**Answer: D**

**Explanation:**

The key influencers visual is a great choice if you want to: See which factors affect the metric being analyzed.

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

Note: The key influencers visual helps you understand the factors that drive a metric you're interested in. It

analyzes your data, ranks the factors that matter, and displays them as key influencers. For example, suppose you want to figure out what influences employee turnover, which is also known as churn. One factor might be employment contract length, and another factor might be commute time.

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

**NEW QUESTION 31**

- (Exam Topic 4)

You open a query in Power Query Editor.

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

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

**Answer: D**

**Explanation:**

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

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

- Column quality
- Column distribution
- Column profile

Reference:

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

**NEW QUESTION 33**

- (Exam Topic 4)

In Power BI Desktop, you are creating visualizations in a report based on an imported dataset

You need to allow Power BI users to export the summarized data used to create the visualizations but prevent the users from exporting the underlying data  
What should you do?

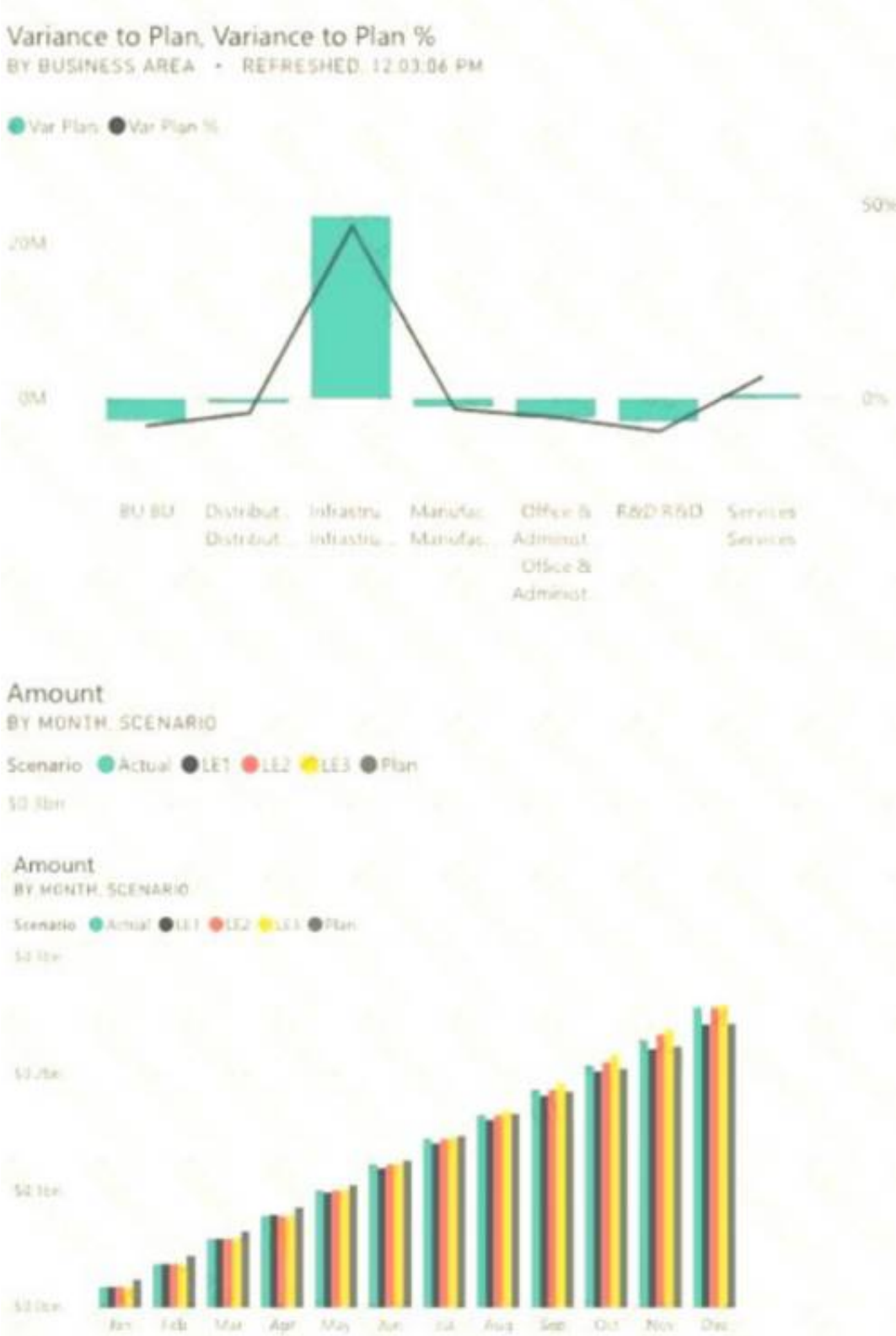
- A. From Power BI Desktop, configure the Data Load settings for the current file.
- B. From the Power BI service, configure the dataset permissions.
- C. From Power BI Desktop, configure the Report settings for the current file.
- D. From Power BI Desktop, modify the data source permissions.

**Answer: B**

**NEW QUESTION 35**

- (Exam Topic 4)

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



What occurred at 12:03:06 PM?

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

**Answer: D**

**Explanation:**

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

**NEW QUESTION 39**

- (Exam Topic 4)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution. After you answer a question in this scenario, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have a clustered bar chart that contains a measure named Salary as the value and a field named Employee as the axis. Salary is present in the data as numerical amount representing US dollars. You need to create a reference line to show which employees are above the median salary. Solution: You create an average line by using the Salary measure. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Instead create a percentile line by using the Salary measure and set the percentile to 50%.  
 Note: The 50th percentile is also known as the median or middle value where 50 percent of observations fall below.  
 Reference:





Answer Area

Top 100 Customers =

100,

ASC

DESC

FILTER

SUMMARIZE

TOPN

(FactTransaction,

FactTransaction[Customer ID],

"Sales",

SUM(FactTransaction[Sale])),

[Sales],

ASC

DESC

FILTER

SUMMARIZE

TOPN

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

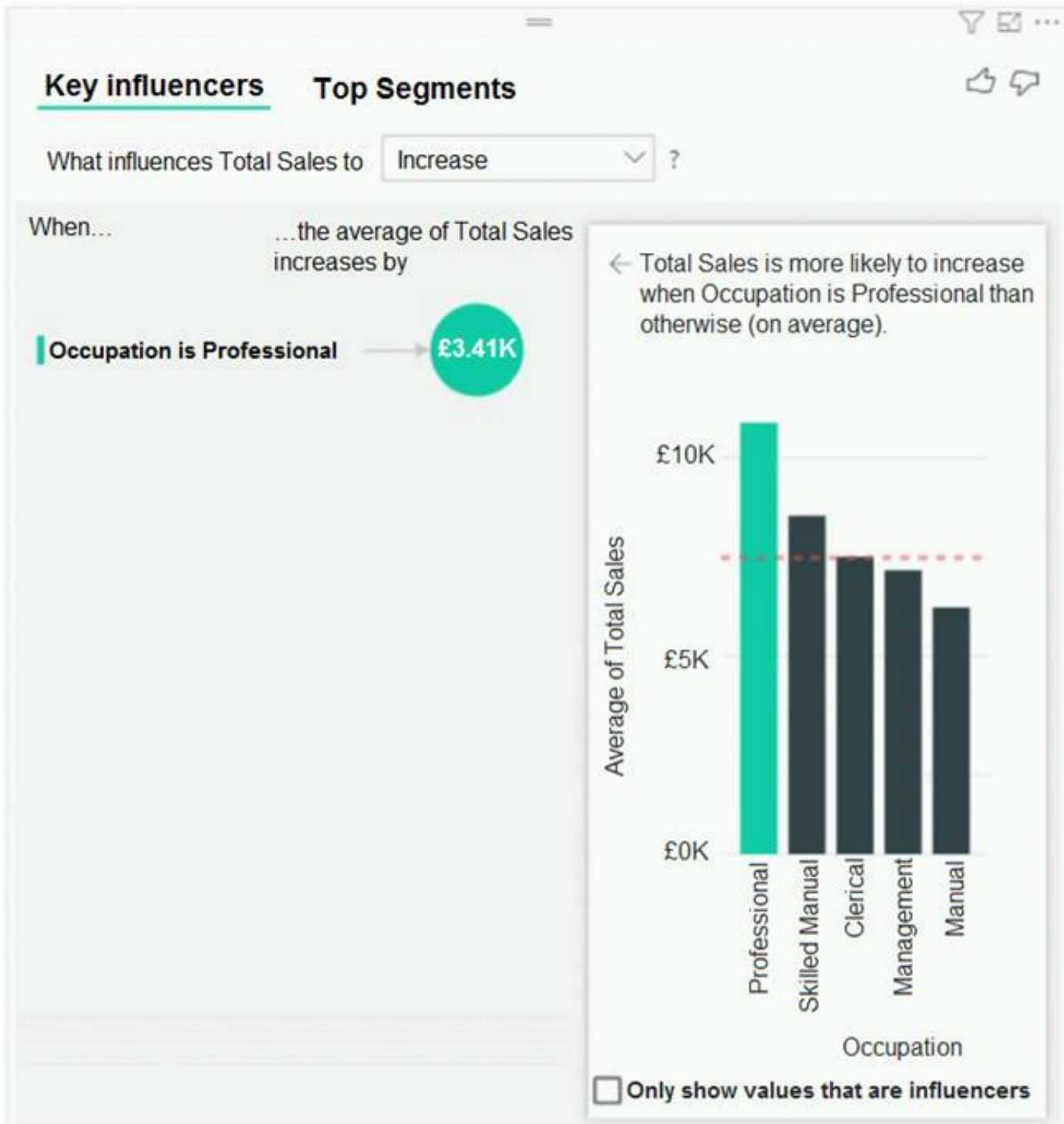
Box 1: TOPN  
TOPN returns the top N rows of the specified table. Box 2: SUMMARIZE  
SUMMARIZE returns a summary table for the requested totals over a set of groups. Box 3: DESC  
Sort in descending order.  
It is last in the TOPN command. TOPN syntax:  
TOPN(<n\_value>, <table>, <orderBy\_expression>, [<order>[, <orderBy\_expression>, [<order>]]...]) Reference:  
<https://docs.microsoft.com/en-us/dax/topn-function-dax> <https://docs.microsoft.com/en-us/dax/summarize-function-dax>

NEW QUESTION 55

- (Exam Topic 4)  
You have a table that contains the following three columns:

- > City
- > Total Sales
- > Occupation

You need to create a key influencers visualization as shown in the exhibit. (Click the Exhibit tab.)



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

**Answer Area**

Analyze:
 

▼

City

Occupation

Total Sales

Explain by:
 

▼

City

Occupation

Total Sales

Expand by:
 

▼

City

Occupation

Total Sales

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Total Sales Box 2: Occupation  
 Box 3: City  
 You can use Expand By to add fields you want to use for setting the level of the analysis without looking for new influencers.  
 Reference:  
<https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-influencers>

**NEW QUESTION 60**  
 - (Exam Topic 4)

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



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



What should you add to the visual?

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

**Answer:** C

**Explanation:**

Explore forecast results by adjusting the desired confidence interval or by adjusting outlier data to see how they affect results.  
 Timeline Description automatically generated with low confidence  
 Reference:  
<https://powerbi.microsoft.com/fr-fr/blog/introducing-new-forecasting-capabilities-in-power-view-for-office-365>

**NEW QUESTION 63**

- (Exam Topic 4)

You build a report to analyze customer transactions from a database that contains the tables shown in the following table.

Table name	Column name
Customer	CustomerID (primary key)
	Name
	State
	Email
Transaction	TransactionID (primary key)
	CustomerID (foreign key)
	Date
	Amount

You import the tables.  
 Which relationship should you use to link the tables?

- A. one-to-many from Customer to Transaction
- B. one-to-one between Customer and Transaction
- C. one-to-many from Transaction to Customer
- D. many-to-many between Customer and Transaction

**Answer:** A

**Explanation:**

Each customer can have many transactions.



For each transaction there is exactly one customer.

### NEW QUESTION 67

- (Exam Topic 4)

You have an Azure SQL database that contains sales transactions. The database is updated frequently.

You need to generate reports from the data to detect fraudulent transactions. The data must be visible within five minutes of an update.

How should you configure the data connection?

- A. Add a SQL statement.
- B. Set Data Connectivity mode to DirectQuery.
- C. Set the Command timeout in minutes setting.
- D. Set Data Connectivity mode to Import.

**Answer: B**

#### Explanation:

With Power BI Desktop, when you connect to your data source, it's always possible to import a copy of the data into the Power BI Desktop. For some data sources, an alternative approach is available: connect directly to the data source using DirectQuery.

DirectQuery: No data is imported or copied into Power BI Desktop. For relational sources, the selected tables and columns appear in the Fields list. For multi-dimensional sources like SAP Business Warehouse, the dimensions and measures of the selected cube appear in the Fields list. As you create or interact with a visualization, Power BI Desktop queries the underlying data source, so you're always viewing current data.

Reference:

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

### NEW QUESTION 71

- (Exam Topic 4)

You have a Microsoft Power BI dashboard.

You need to ensure that consumers of the dashboard can give you feedback that will be visible to the other consumers of the dashboard.

What should you use?

- A. Feedback
- B. Subscribe
- C. Comments
- D. Mark as favorite

**Answer: C**

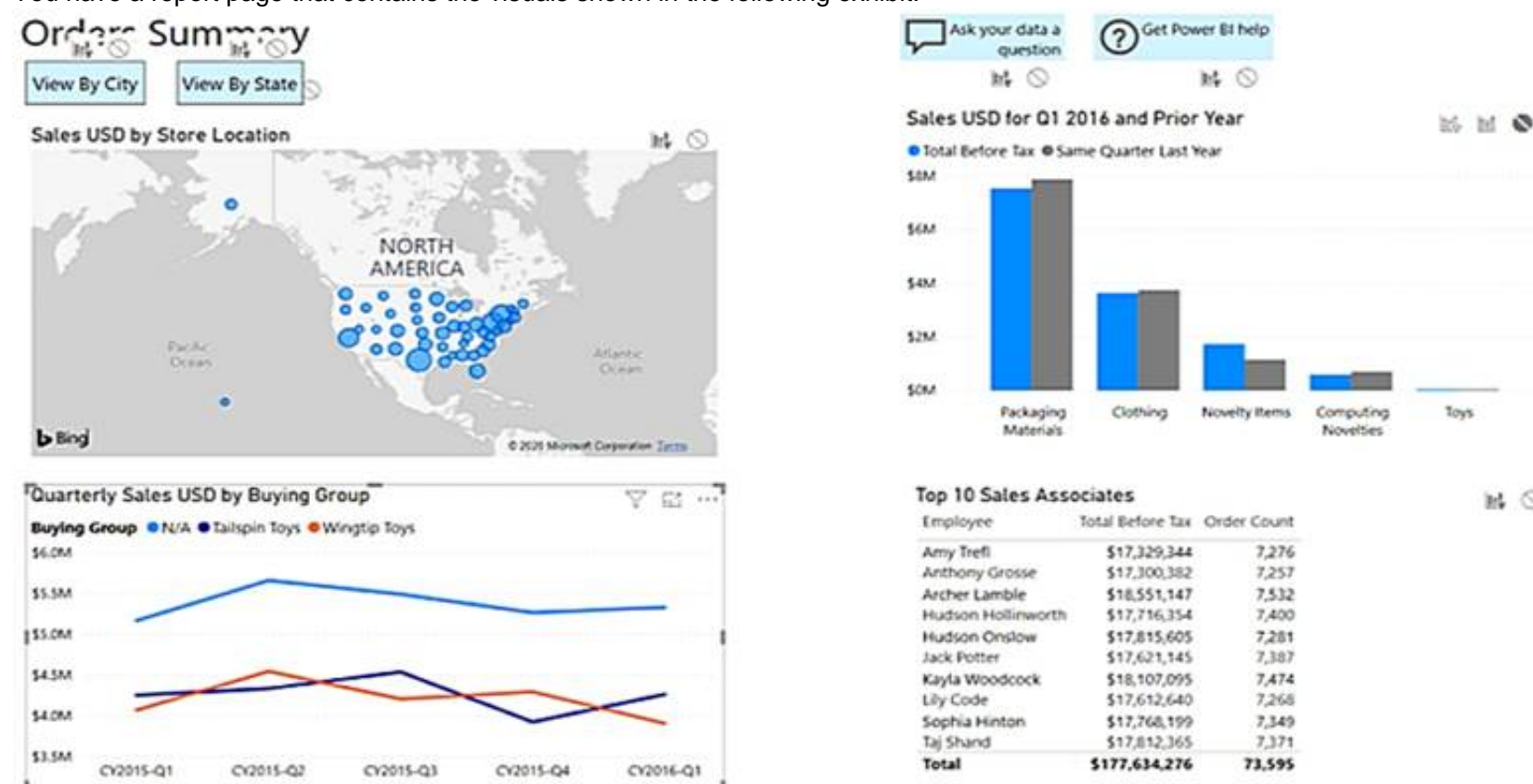
#### Explanation:

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

### NEW QUESTION 72

- (Exam Topic 4)

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



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

Answer Area

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

▼

cross-filter

cross-highlight

not affect

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

▼

cross-filter

cross-highlight

not affect

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

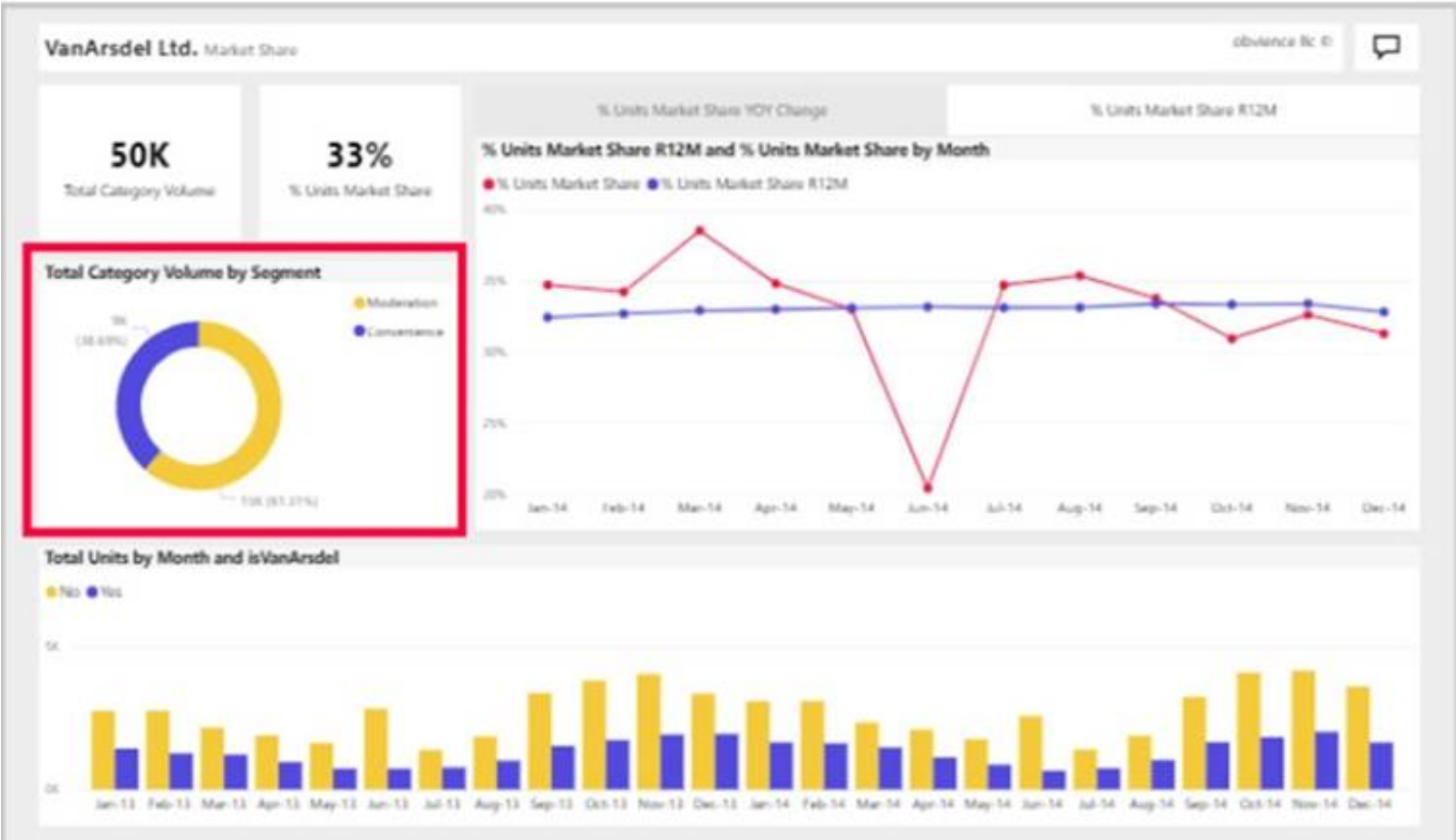
Box 1: cross-filter

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

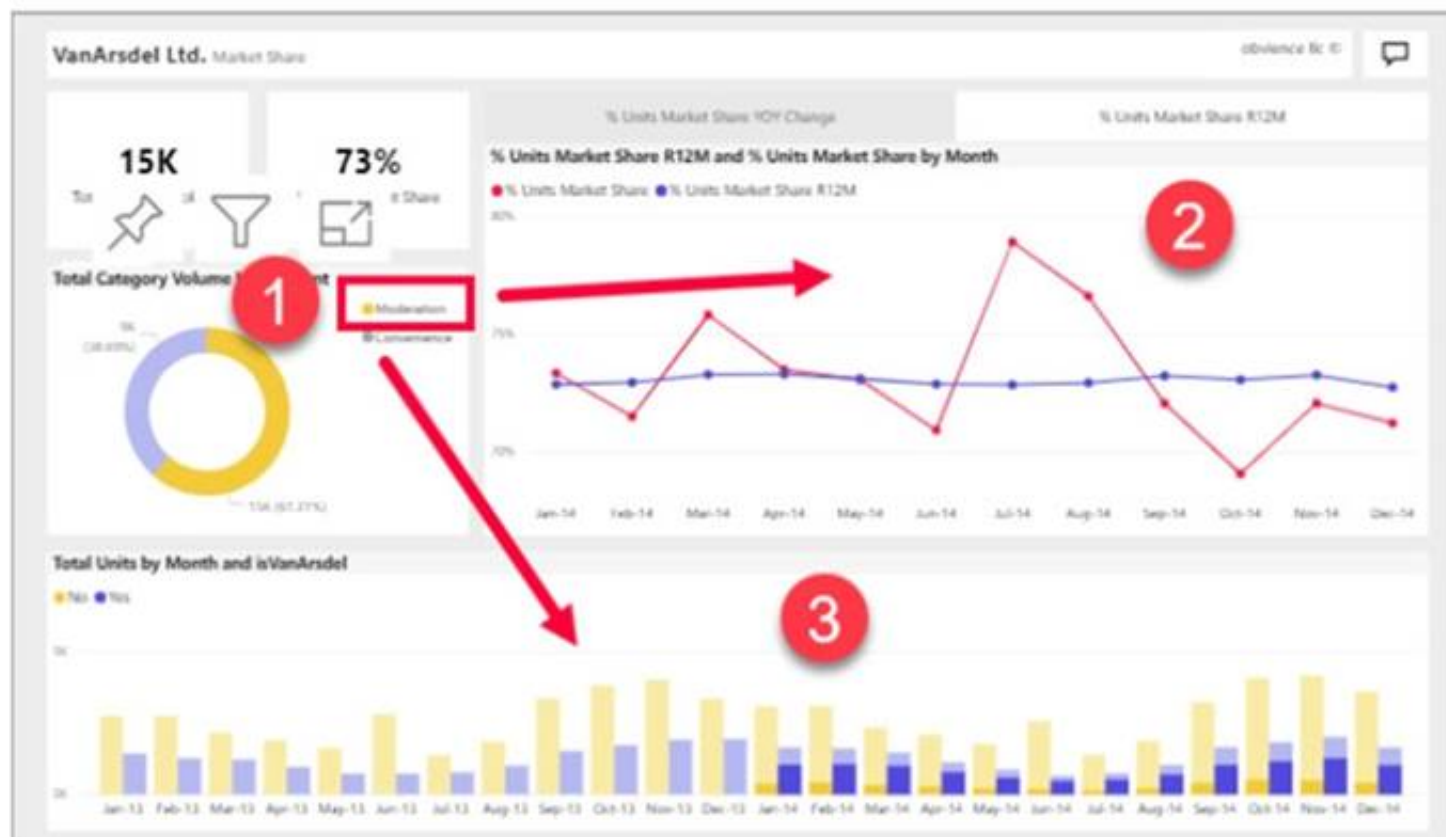
Box 2: cross-highlight

Example:

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



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



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

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

Reference:

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

#### NEW QUESTION 74

- (Exam Topic 4)

You need to create the On-Time Shipping report.

The report must include a visualization that shows the percentage of late orders. Which type of visualization should you create?

- A. scatterplot
- B. bar chart
- C. piechart

**Answer: A**

#### NEW QUESTION 79

- (Exam Topic 4)

You are developing a sales report that will have multiple pages. Each page will answer a different business question.

You plan to have a menu page that will show all the business questions.

You need to ensure that users can click each business question and be directed to the page where the question is answered. The solution must ensure that the menu page will work when deployed to any workspace.

What should you include on the menu page?

- A. Create a text box for each business question and insert a link.
- B. Create a button for each business question and set the action type to Bookmark.
- C. Create a Power Apps visual that contains a drop-down list.
- D. The drop-down list will contain the business questions.

**Answer: B**

#### Explanation:

When you create a bookmark, the following elements are saved with the bookmark: - The current page - Filters - Slicers, including slicer type (for example, dropdown or list) and slicer state - Visual selection state (such as cross-highlight filters) - Sort order - Drill location - Visibility of an object (by using the Selection pane) - The focus or Spotlight modes of any visible object

#### NEW QUESTION 84

- (Exam Topic 4)

Your company plans to completely separate development and production assets such as datasets, reports, and dashboards in Microsoft Power BI.

You need to recommend an application lifecycle strategy. The solution must minimize maintenance to update access and prevent end users from viewing the development assets.

What should you recommend?

- A. Create production reports in a separate workspace that uses a shared dataset from the development workspace.
- B. Grant the end users access to the production workspace.
- C. In the same workspace, create separate copies of the assets and append DEV to the names of the copied asset.
- D. Grant the end users access to the workspace.
- E. Create separate workspaces for development and production.
- F. Grant the end users access to the production workspace.
- G. Create one workspace for development.
- H. From the workspace, publish an app for production.



**Answer:** C

#### NEW QUESTION 87

- (Exam Topic 4)

You have sales data in a star schema that contains four tables named Sales, Customer, Date, and Product. The Sales table contains purchase and ship dates. Most often, you will use the purchase date to analyze the data, but you will analyze the data by both dates independently and together. You need to design an imported dataset to support the analysis. The solution must minimize the model size and the number of queries against the data source. Which data modeling design should you use?

- A. Use the Auto Date/Time functionality in Microsoft Power BI and do NOT import the Date table.
- B. Duplicate the Date query in Power Query and use active relationships between both Date tables.
- C. On the Date table, use a reference query in Power Query and create active relationships between Sales and both Date tables in the modeling view.
- D. Create an active relationship between Sales and Date for the purchase date and an inactive relationship for the ship date.

**Answer:** D

#### Explanation:

Only one relationship can be active.

Note: If you query two or more tables at the same time, when the data is loaded, Power BI Desktop attempts to find and create relationships for you. The relationship options Cardinality, Cross filter direction, and Make this relationship active are automatically set.

Reference:

<https://docs.microsoft.com/en-us/power-bi/transform-model/desktop-create-and-manage-relationships>

#### NEW QUESTION 90

- (Exam Topic 4)

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

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

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

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

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

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

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

#### NEW QUESTION 93

- (Exam Topic 4)

You are enhancing a Power BI model that has DAX calculations.

You need to create a measure that returns the year-to-date total sales from the same date of the previous calendar year.

Which DAX functions should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Sales PYTD =**

**VAR startyear =**

**STARTOFYEAR ( PREVIOUSYEAR ( 'Date' [Date] ) )**

**VAR enddate =**

**LASTDATE ( Sales[Date] ) - 365**

**RETURN**

**CALCULATE ( SUM ( Sales[Sales] ),**

**DATESBETWEEN (**  
**SAMEPERIODLASTYEAR (**  
**SLIM (**

**CALCULATE**  
**DATESBETWEEN**  
**SAMEPERIODLASTYEAR**  
**SLIM**

**)**

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Reference:

<https://www.kasperonbi.com/get-the-ytd-of-the-same-period-last-year/>

**NEW QUESTION 95**

- (Exam Topic 4)

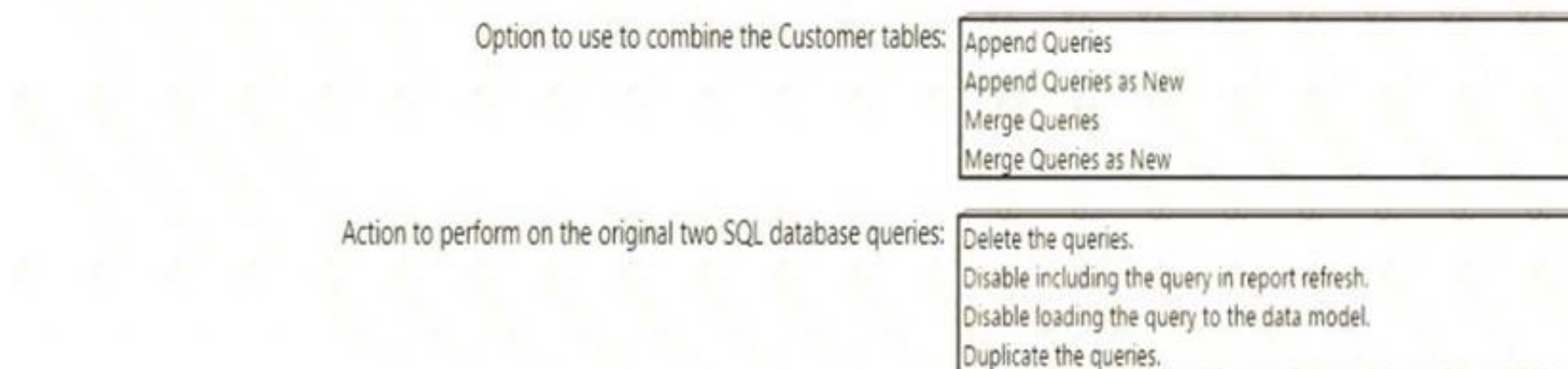
You have two Azure SQL databases that contain the same tables and columns.

For each database, you create a query that retrieves data from a table named Customers.

You need to combine the Customer tables into a single table. The solution must minimize the size of the data model and support scheduled refresh in powerbi.com.

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

**Answer Area**



A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text Description automatically generated with medium confidence

Box 1: Append Queries as New.

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.

Box 2: Disable loading the query to the data model

For every query that loads into model memory will be consumed. and Memory is our asset in the Model, less memory consumption leads to better performance in most of the cases. The best approach is to disable loading.

Reference:

<https://docs.microsoft.com/en-us/power-query/append-queries>

**NEW QUESTION 99**

- (Exam Topic 4)

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

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

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

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

Solution: You modify the source step of the queries to use DataSourceExcel as the file path. Does this meet the goal?

A. Yes

B. No

**Answer:** A

**Explanation:**

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

Reference:

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

**NEW QUESTION 101**

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