

PL-300

Real Exam Questions & Answers

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Microsoft
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DATA ANALYST

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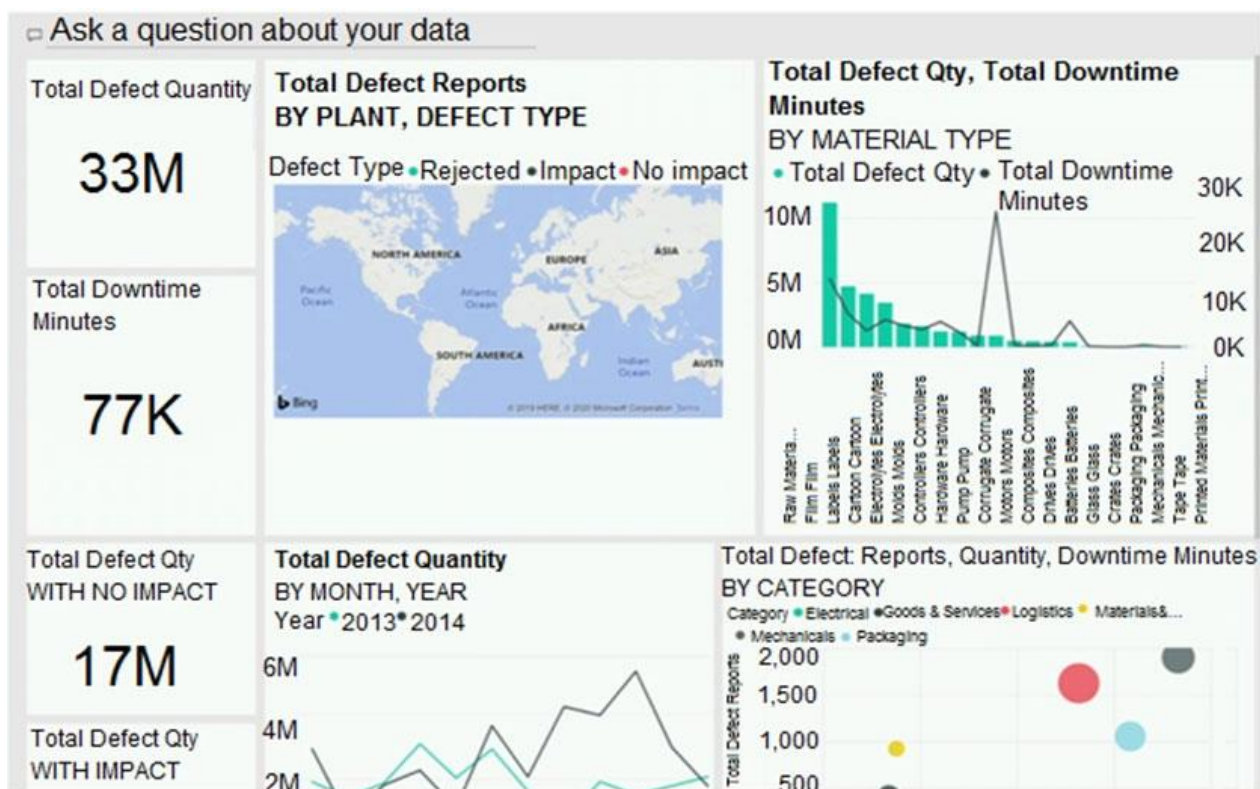


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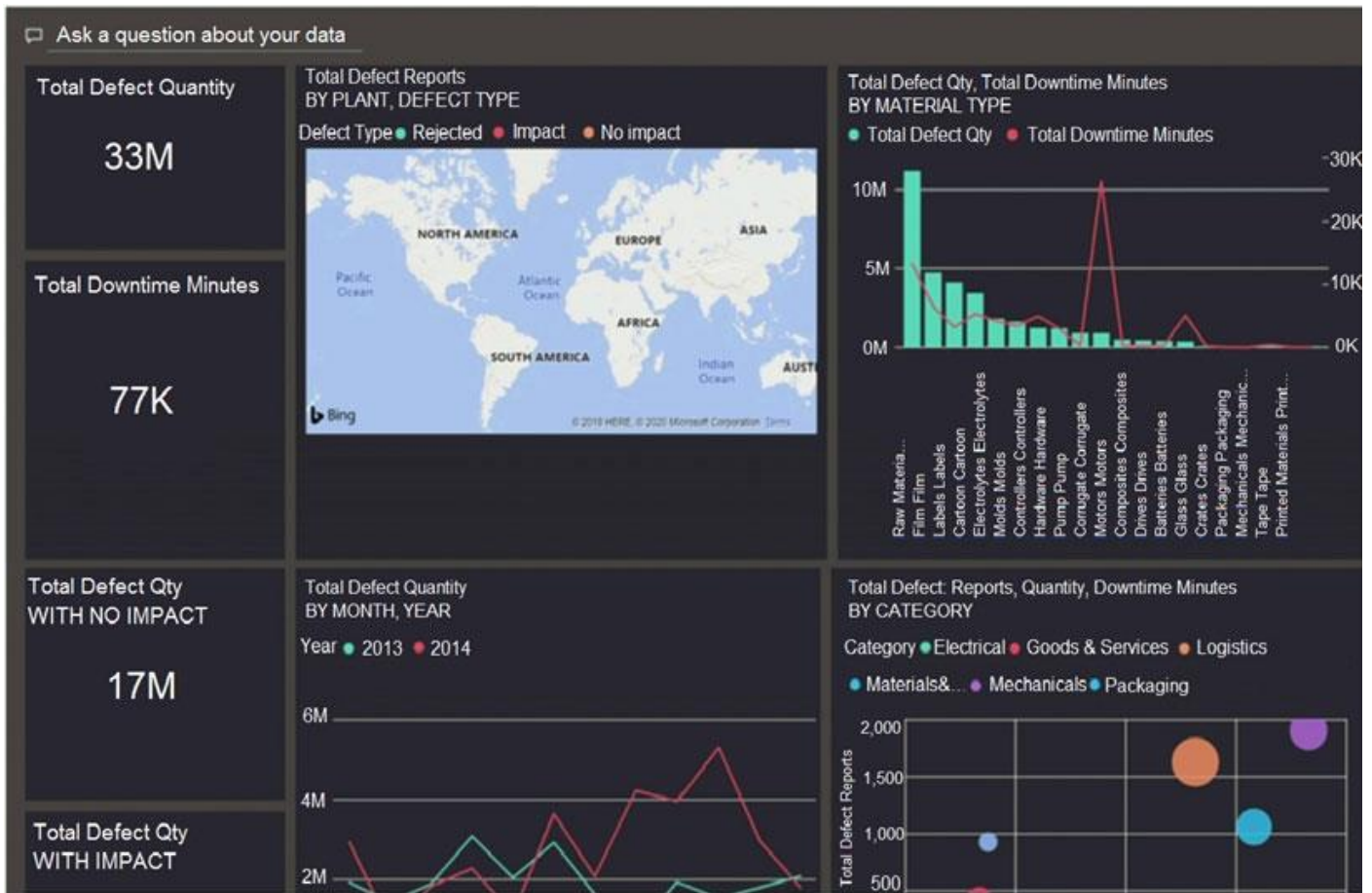
Question 41

CertyIQ

You have a dashboard that contains tiles pinned from a single report as shown in the Original Dashboard exhibit. (Click the Original Dashboard tab.)



You need to modify the dashboard to appear as shown in the Modified Dashboard exhibit. (Click the Modified Dashboard tab.)



What should you do?

- A. Edit the details of each tile.
- B. Change the report theme.
- C. Change the dashboard theme.
- D. Create a custom CSS file.

Explanation:

Correct answer – C

I've tested this in both reports and dashboards. Use the "Dashboard theme" option from a dashboard and choosing the Dark theme will give the required output as per the question. Changing the report theme doesn't impact the colour/theme of the Dashboard. Similarly, all the tiles coming from a single report or multiple reports is irrelevant here.

DRAG DROP -

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.

Select and Place:

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



Correct Answer:

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

Explanation:

Correct answer –

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

Reference:

<https://docs.microsoft.com/en-us/power-bi/create-reports/service-create-dashboard-mobile-phone-view>

Question 43

CertyIQ

You build a report to help the sales team understand its performance and the drivers of sales.

The team needs to have a single visualization to identify which factors affect success.

Which type of visualization should you use?

A. Line and clustered column chart

B. Key influencers

C. Q&A

D. Funnel chart

Explanation:

Correct answer – B

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

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

- ☞ See which factors affect the metric being analyzed.
- ☞ Contrast the relative importance of these factors. For example, do short-term contracts have more impact on churn than long-term contracts?

Reference:

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

Question 44

CertyIQ

HOTSPOT -

You have a dataset named Pens that contains the following columns:

- ☞ Unit Price
- ☞ Quantity Ordered

You need to create a visualization that shows the relationship between Unit Price and Quantity Ordered. The solution must highlight orders that have a similar unit price and ordered quantity.

Which type of visualization and which feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Visualization: ▼

A column chart of Quantity Ordered and Unit Price by year
A line chart of Quantity Ordered and Unit Price by item
A scatter plot of Quantity Ordered and Unit Price by item

Feature: ▼

Automatically find clusters
Explain the decrease
Find where the distribution is different

Answer Area

Correct Answer:

Visualization: ▼

A column chart of Quantity Ordered and Unit Price by year
A line chart of Quantity Ordered and Unit Price by item
A scatter plot of Quantity Ordered and Unit Price by item

Feature: ▼

Automatically find clusters
Explain the decrease
Find where the distribution is different

Explanation:

Correct answer –

Box 1: A scatter plot...

A scatter chart always has two value axes to show: one set of numerical data along a horizontal axis and another set of numerical values along a vertical axis. The chart displays points at the intersection of an x and y numerical value, combining these values into single data points. Power BI may distribute these data points evenly or unevenly across the horizontal axis. It depends on the data the chart represents.

Box 2: Automatically find clusters

Scatter charts are a great choice to show patterns in large sets of data, for example by showing linear or non-linear trends, clusters, and outliers.

Reference:

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

Question 45

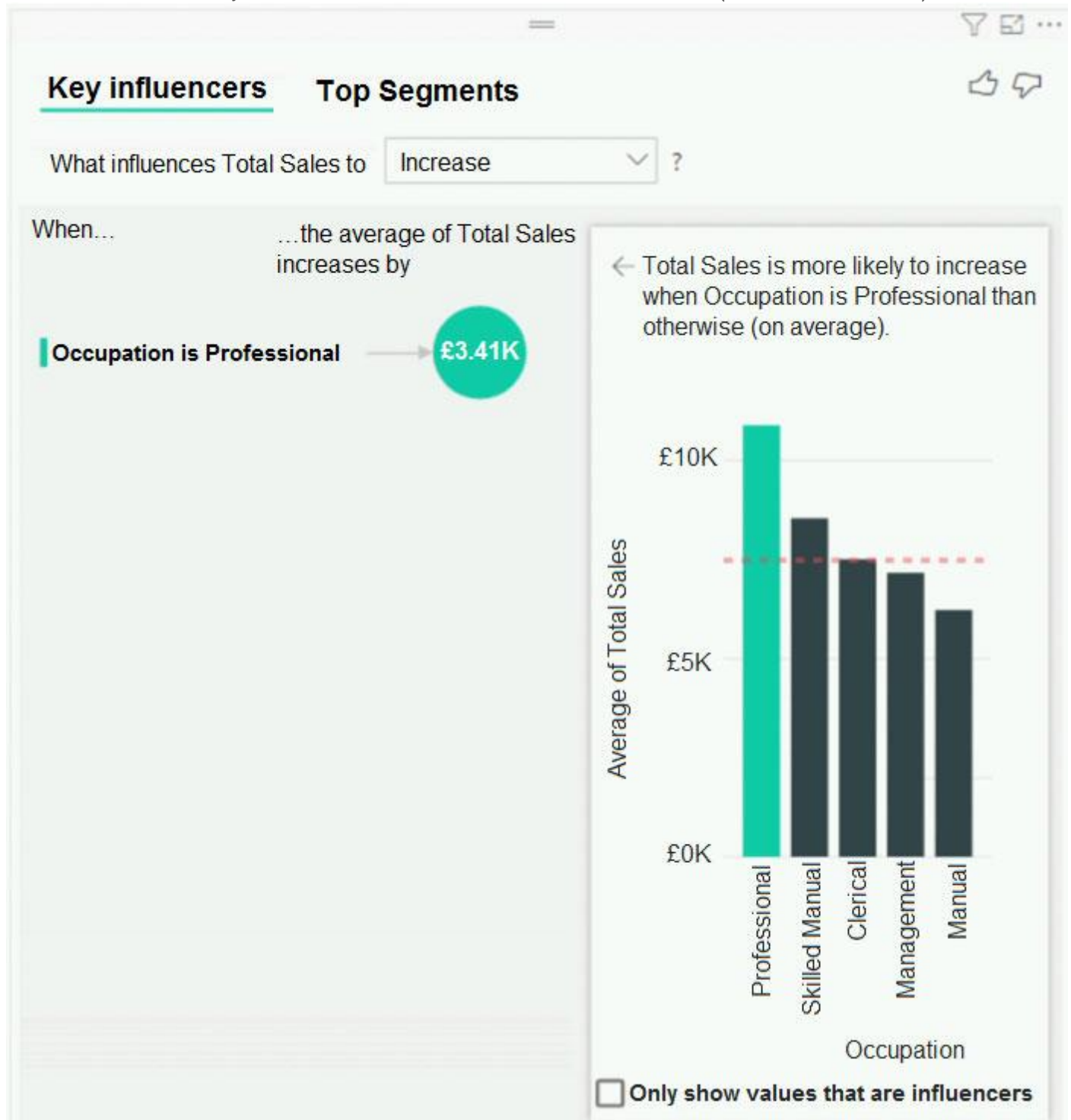
CertyIQ

HOTSPOT -

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.

Hot Area:

Answer Area

Analyze:

▼
City
Occupation
Total Sales

Explain by:

▼
City
Occupation
Total Sales

Expand by:

▼
City
Occupation
Total Sales

Answer Area



Suggested Answer:

Analyze:

▼
City
Occupation
Total Sales

Explain by:

▼
City
Occupation
Total Sales

Expand by:

▼
City
Occupation
Total Sales

Explanation:

Correct answer – Total Sales is what we analyze, we explain by occupation and expand by city.

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>

Question 46

CertyIQ

You have the dataset shown in the following exhibit.



City	Sales Profit
Abbottsburg	\$173,947
Absecon	\$129,358
Accomac	\$157,768
Aceitunas	\$119,283
Airport Drive	\$162,500
Akhiok	\$259,554
Alcester	\$127,040
Alden Bridge	\$152,138
Alstead	\$106,147
Amado	\$136,718
Amanda Park	\$117,444
Andrix	\$130,710
Annamoriah	\$139,499
Antares	\$147,562
Antonio	\$113,056
Total	\$85,729,181

You need to ensure that the visual shows only the 10 cities that have the highest sales profit. What should you do?

A. Add a Top N filter to the visual.

B. Configure the Sales Profit measure to use the RANKX function.

C. Add a calculated column to the table that uses the TOPN function. In the visual, replace Sales Profit with the calculated column.

D. Add a calculated column to the table that returns the city name if the city is in the top 10, otherwise the calculated column will return "Not in Top 10". In the visual, replace Sales Profit with the calculated column.

Explanation:

Correct answer – A

Power BI Top N Filters are useful to display the top performing records, and Bottom N filters are helpful to display the least performing records. For example, we can display top or bottom 10 products by orders or sales.

Note:

1. Select the Column you want to display the Top Sales Profit
2. Then change the Filter Type of that Column to Top N
3. Fill in Top / Bottom number field
4. And lastly drag to the By Value field your Sales Profit

Incorrect Answers:

B: You would need a filter as well.

Reference:

<https://www.tutorialgateway.org/power-bi-top-10-filters/>

Question 47

CertyIQ

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

Explanation:

Correct answer – NO

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.

Or you can just use the *MEDIAN LINE* from *ANALYTICS*

Reference:

https://dash-intel.com/powerbi/statistical_functions_percentile.php

Question 48

CertyIQ

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

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

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

You need to create a reference line to show which employees are above the median salary.

Solution: You create a percentile line by using the Salary measure and set the percentile to 50%.

Does this meet the goal?

A. Yes

B. No

Explanation:

Correct answer – YES

The median is a term that is used to describe a number that lies exactly in the middle of a class or a range. The term 50th percentile means that exactly 50 people out of 100 are above him and 50 are below him. Thus, the 50th percentile is the median for that group or class of people.

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

Reference:

https://dash-intel.com/powerbi/statistical_functions_percentile.php

Question 49

CertyIQ

You have a Microsoft SharePoint Online site that contain several document libraries.

One of the document libraries contains manufacturing reports saved as Microsoft Excel files. All the manufacturing reports have the same data structure.

You need to use Power BI Desktop to load only the manufacturing reports to a table for analysis.

What should you do?

A. Get data from a SharePoint Online folder, enter the site URL, and then select Combine & Load.

B. Get data from a SharePoint Online list and enter the site URL. Select Combine & Transform, then filter by the folder path to the manufacturing reports library.

C. Get data from a SharePoint Online folder and enter the site URL. Select Combine & Transform, then filter by the folder path to the manufacturing reports library.

D. Get data from a SharePoint Online list, enter the site URL, and then select Combine & Load.

Explanation:

Correct answer – C

Sharepoint Folder is used when you want to import a file (excel, csv..etc)

Sharepoint lists is some sort of data format that you create directly in sharepoint (dataset) and you want to import. its not a file

Reference:

<https://www.c-sharpcorner.com/article/combine-and-transform-data-of-multiple-files-located-in-a-folder-in-power-bi/>

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

Question 50

CertyIQ

HOTSPOT -

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

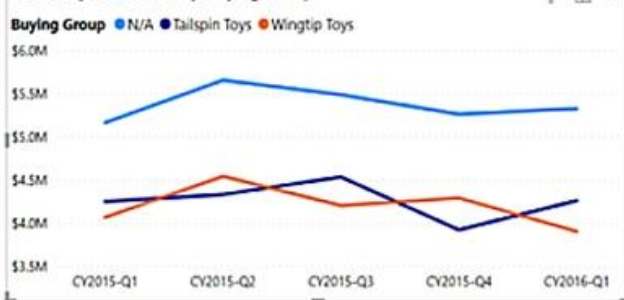
Orders Summary

View By City View By State

Sales USD by Store Location

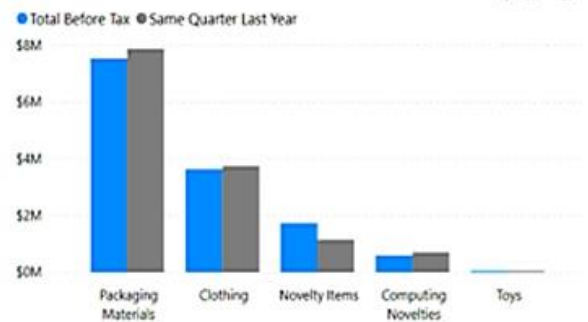


Quarterly Sales USD by Buying Group



Ask your data a question Get Power BI help

Sales USD for Q1 2016 and Prior Year



Top 10 Sales Associates

Employee	Total Before Tax	Order Count
Amy Trefl	\$17,329,344	7,276
Anthony Grosse	\$17,300,382	7,257
Archer Lamble	\$18,551,147	7,532
Hudson Hollinworth	\$17,716,354	7,400
Hudson Onslow	\$17,815,605	7,281
Jack Potter	\$17,621,145	7,387
Kayla Woodcock	\$18,107,095	7,474
Lily Code	\$17,612,640	7,268
Sophia Hinton	\$17,768,199	7,349
Taj Shand	\$17,812,365	7,371
Total	\$177,634,276	73,595

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

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

Answer Area

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

▼

cross-filter

cross-highlight

not affect

Suggested Answer:

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

▼

cross-filter

cross-highlight

not affect

Explanation:

Correct answer – not affect, cross-filter

You can see that the bar chart have the interaction switched off, therefore any selection on the line graph will not affect the bar chart.

Map charts only offers a cross-filtering interaction, as you can visualize the interaction symbol is switched on.

Question 51

CertyIQ

You have a report that contains four pages. Each page contains slicers for the same four fields.

Users report that when they select values in a slicer on one page, the selections are not persisted on other pages.

You need to recommend a solution to ensure that users can select a value once to filter the results on all the pages.

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

NOTE: Each correct selection is worth one point.

A. Replace the slicers with report-level filters.

B. Sync the slicers across the pages.

C. Create a bookmark for each slicer value.

D. Replace the slicers with page-level filters.

E. Replace the slicers with visual-level filters.

Explanation:

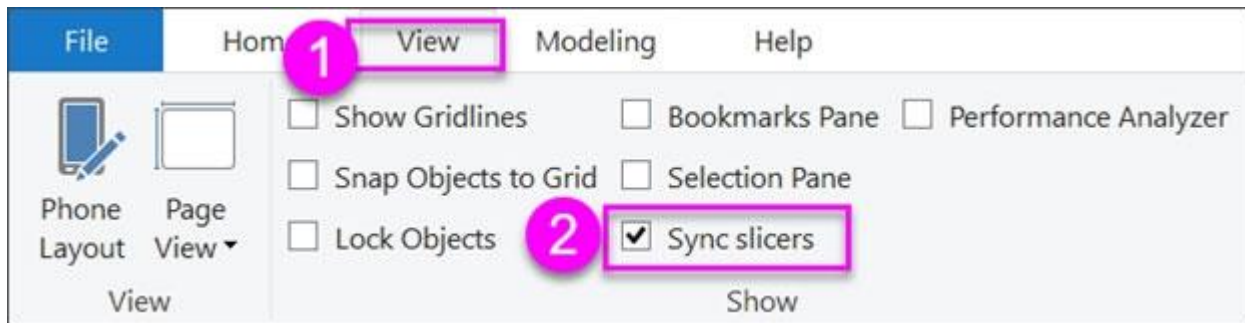
Correct answer – AB

A: Add a report-level filter to filter an entire report.

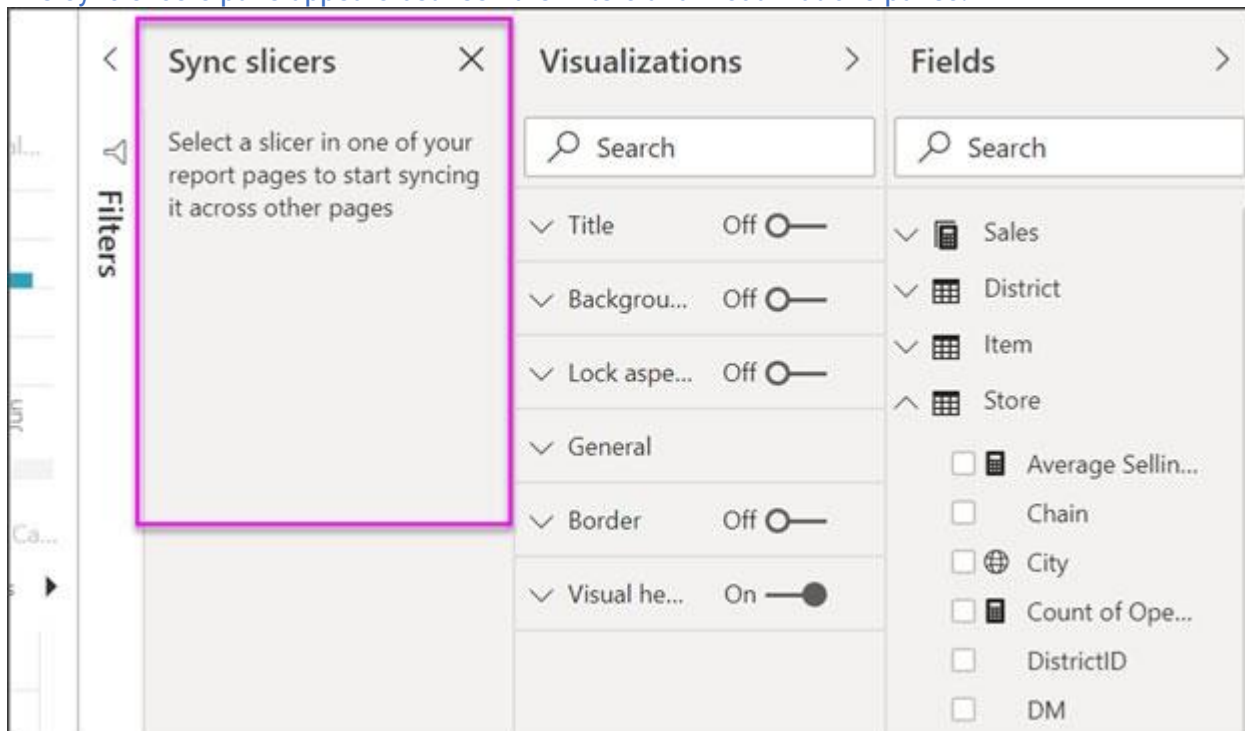
The visuals on the active page, and on all pages in the report, change to reflect the new filter.

B: You can sync a slicer and use it on any or all pages in a report.

1. On the Power BI Desktop View menu, select Sync slicers.



The Sync slicers pane appears between the Filters and Visualizations panes.



Reference:

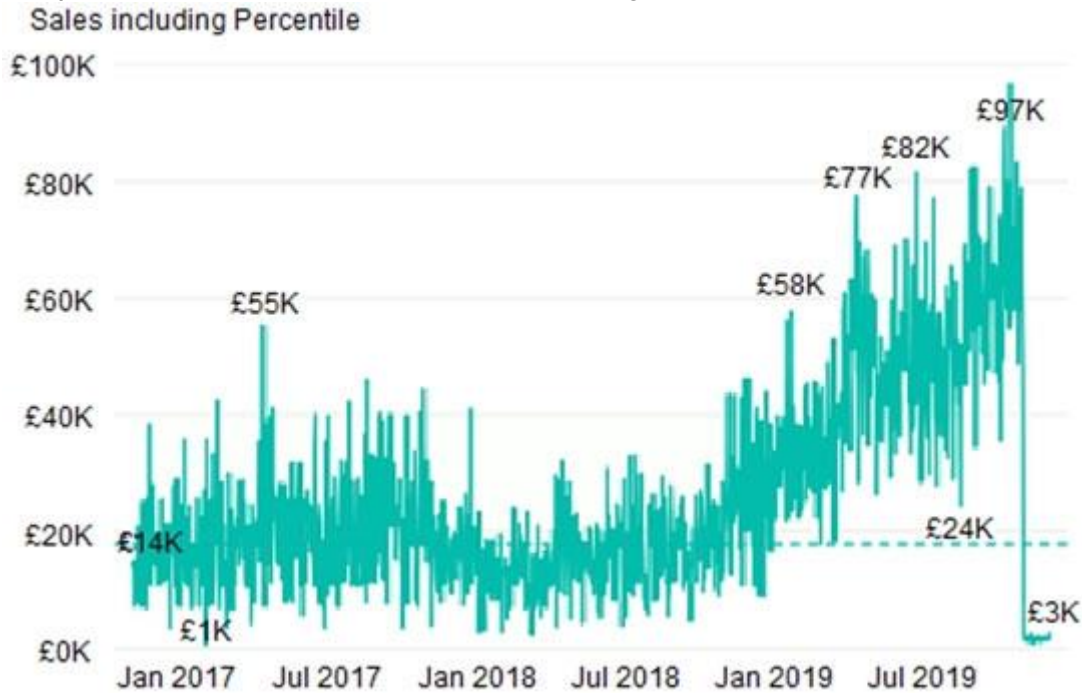
<https://docs.microsoft.com/en-us/power-bi/create-reports/power-bi-report-add-filter>

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

Question 52

CertyIQ

You plan to create the chart shown in the following exhibit.



How should you create the dashed horizontal line denoting the 40th percentile of daily sales for the period shown?

A. Add a measure to the visual that uses the following DAX expression. Measure1 = PERCENTILEX.INC (Sales,Sales[Total Sales],0.40)

B. Add a new percentile line that uses Total Sales as the measure and 40% as the percentile.

C. Create a horizontal line that has a fixed value of 24,000.

D. Add a measure to the visual that uses the following DAX expression. Measure1 = PERCENTILEX.EXC (Sales,Sales[Total Sales],0.40)

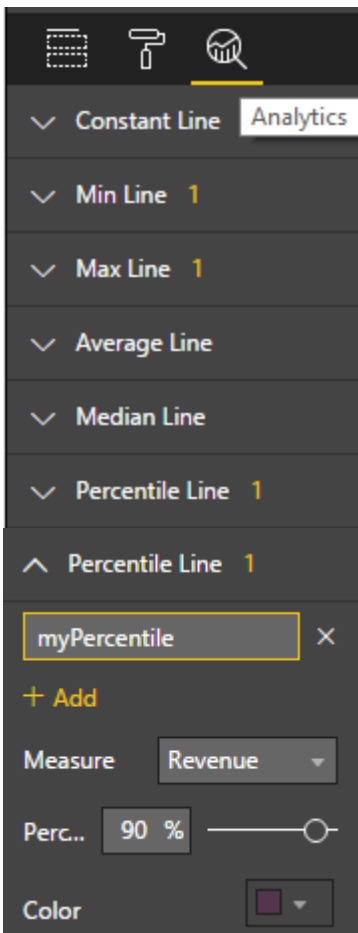
Explanation:

Correct answer – B

The analytics feature enables you to show percentiles across groups specified along a specific axis.

Example:

1. Click on the analytics tab
2. Select Percentile
3. You can choose a specific percentile along with other formatting options.
4. Drag a date or non-numeric dimension into the Axis of a column chart



Add percentile lines to monitor daily revenue



Incorrect Answers:

A, D: There are two main percentile functions in Power BI:

PERCENTILE.EXC(column, kth percentile)

PERCENTILE.INC(column, kth percentile)

The first parameter is the column which you want the percentile value for.

The second parameter is the kth percentile where k percentage of values will fall below.

Both formulas use a slightly different algorithm. The second algorithm works for any value of k between 0 and 1 (the 0th and 100th percentile). In the EXC version the data excludes both lower and upper bounds, while INC includes them.

Reference:

https://www.dash-intel.com/powerbi/statistical_functions_percentile.php

Question 53

CertyIQ

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

You need to identify outliers in the table.

Which type of visualization should you use?

A. donut chart

B. pie chart

C. area chart

D. scatter plot

Explanation:

Correct answer – D

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

Reference:

<https://towardsdatascience.com/this-article-is-about-identifying-outliers-through-funnel-plots-using-the-microsoft-power-bi-d7ad16ac9ccc>

Question 54

CertyIQ

HOTSPOT -

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

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

The indicator color for Total Sales will be based on % Growth to Last Year.

The solution must use the existing calculations only.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Conditional formatting:

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

Format by:

- Color scale
- Field value
- Rules

Answer Area

Suggested Answer:

Conditional formatting:

Format by:

Background color
Data bars
Font color
Icons
Web URL

Color scale
Field value
Rules

Explanation:

Correct answer –

Box 1: Background color -

To format the Color column based on its field values, select Conditional formatting for the Color field, and then select Background color or Font color.

In the Background color or Font color dialog box, select Field value from the Format by drop-down field.

Box 2: Rules -

You need to specify the color for ranges manually as in Excel color formatting

Field value:

It have to take the specific output for the condition, for example, create a measure whose output is: "Green" or "Red" depending of previous conditions.

We can't use more measures/columns

Correct answer: Rules.

Question 55

CertyIQ

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

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

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

You need to create a reference line to show which employees are above the median salary.

Solution: You create a constant line and set the value to .5.

Does this meet the goal?

A. Yes

B. No

Explanation:

Correct answer – B. .5 is not median | choices with the word "constant" are all wrong answers.

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

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

Reference:

https://dash-intel.com/powerbi/statistical_functions_percentile.php

Question 56

CertyIQ

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

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

Which type of visualization should you use?

A. key influencers

B. ribbon chart

C. line chart

D. scatter chart

Explanation:

Correct answer – C

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

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

Reference:

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

Question 57

CertyIQ

You need to create a visualization that compares revenue and cost over time. Which type of visualization should you use?

- A. stacked area chart
- B. donut chart
- C. line chart**
- D. waterfall chart

Explanation:

Correct answer – C

A line chart or line graph displays the evolution of one or several numeric variables. Data points are connected by straight line segments. A line chart is often used to visualize a trend in data over intervals of time – a time series – thus the line is often drawn chronologically.

Example:

InAnswers:

A: Stacked area charts are not appropriate to study the evolution of each individual group: it is very hard to subtract the height of other groups at each time point.

Note: A stacked area chart is the extension of a basic area chart. It displays the evolution of the value of several groups on the same graphic. The values of each group are displayed on top of each other, what allows to check on the same figure the evolution of both the total of a numeric variable, and the importance of each group.

Reference: <https://www.data-to-viz.com/graph/line.html>

Question 58

CertyIQ

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

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

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

You need to create a reference line to show which employees are above the median salary.

Solution: You create a median line by using the Salary measure.

Does this meet the goal?

A. Yes

B. No

Explanation:

Correct answer – A

It means to add a median line from visual analytics. When adding the median line, PowerBI considers by default the first measure of the clustered bar chart. However, you can add multiple measures in the value section, so you need to choose which measure to use for calculating the median. That's why it's mentioned in the answer "by using the Salary measure"

Question 59

CertyIQ

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. The drop-down list will contain the business questions.

Explanation:

Correct answer – B

Textbox with links can be used for links to any URL.

Button with action as Page Navigation is the easiest way.

<https://insightsoftware.com/blog/how-to-create-a-bookmark-in-power-bi/#:~:text=Go%20to%20the%20Format%20Image,specific%20bookmark%20of%20your%20choice>

Question 60

CertyIQ

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

You need to ensure that the users can consume the content on a report page in a logical order.

What should you configure in Microsoft Power BI Desktop?

A. the tab order

B. the layer order

C. the bookmark order

D. the X position

Explanation:

Correct answer – A

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

Reference:

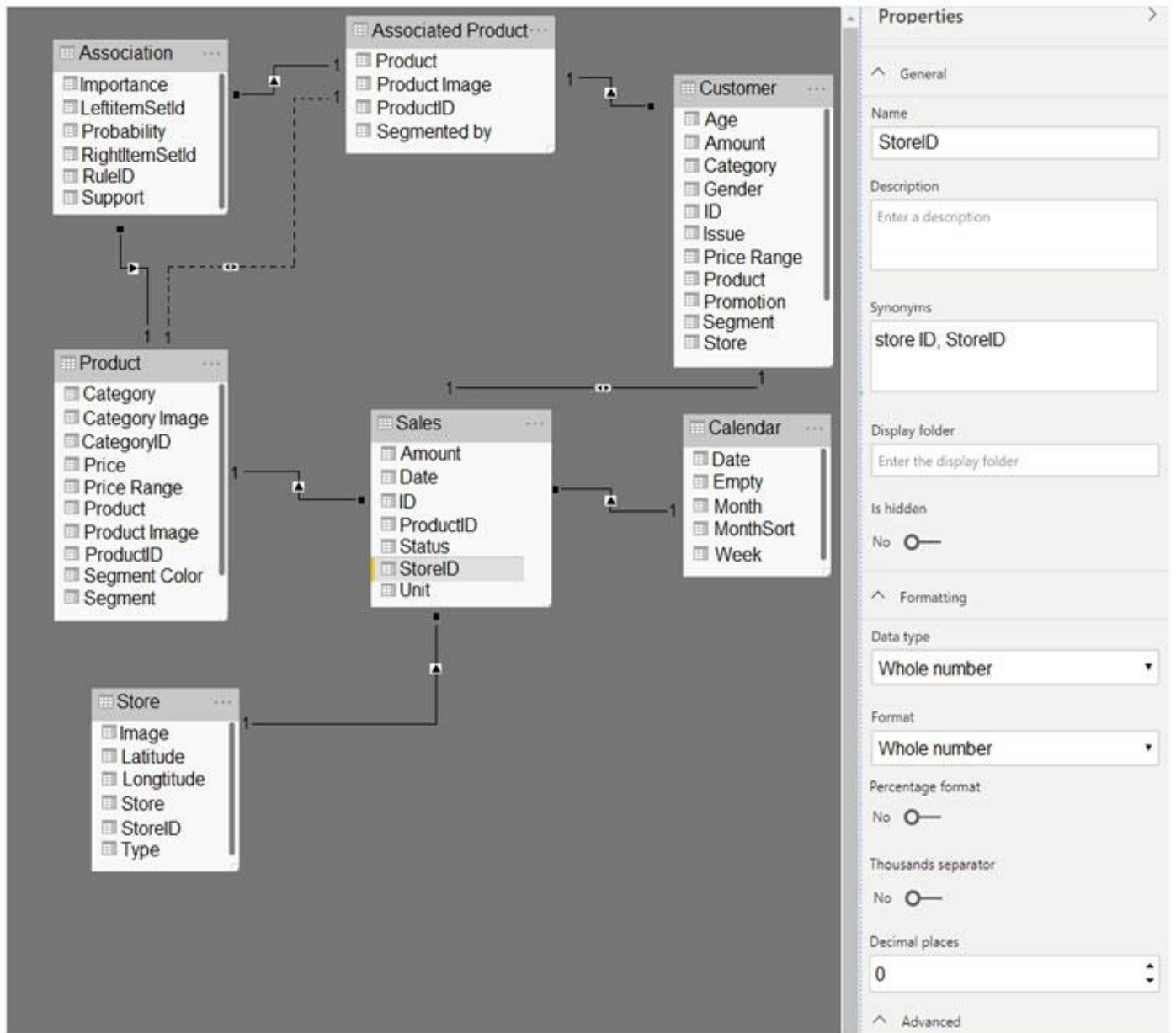
<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-accessibility-consuming-tools>

Question 61

CertyIQ

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	

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	

Suggested Answer:

Explanation:

Correct answer – D and D.

FIRST D :

Because Store ID is formatted as a whole number and default summarization is Sum.

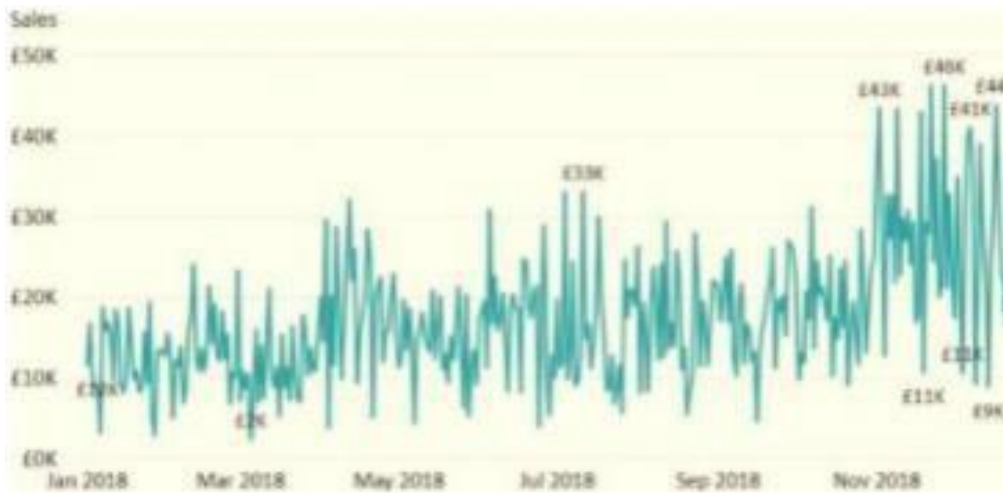
SECOND D:

there is a bi-directional filter present on the relationship between Sales and Customers.

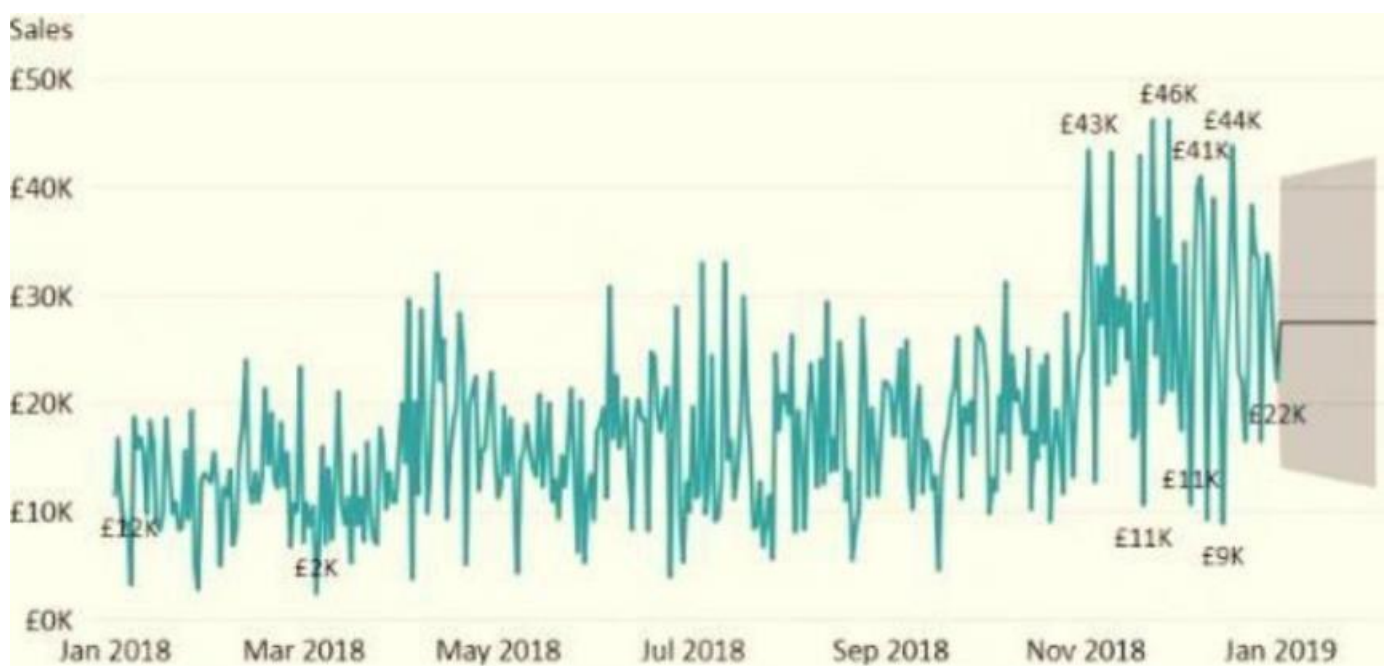
Question 62

CertyIQ

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

Explanation:

Correct answer – B

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

Question 63

CertyIQ

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. Mark as favorite

B. Feedback

C. Comments

D. Subscribe

Explanation:

Correct answer – C

You can add a personal comment or start a conversation about a dashboard or report with your colleagues. The comment feature is just one of the ways a business user can collaborate with others.

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

Question 64

CertyIQ

You are creating a visual to show the ranking of product categories by sales revenue.

Your company's security policy states that you cannot send data outside of your Microsoft Power BI tenant. Which approach provides the widest variety of visuals while adhering to the security policy?

A. Use default or certified AppSource visuals.

B. Use only default visuals.

C. Use default visuals or visuals uploaded from a .pbviz file.

D. Use default or any AppSource visuals from the marketplace.

Explanation:

Correct answer – A

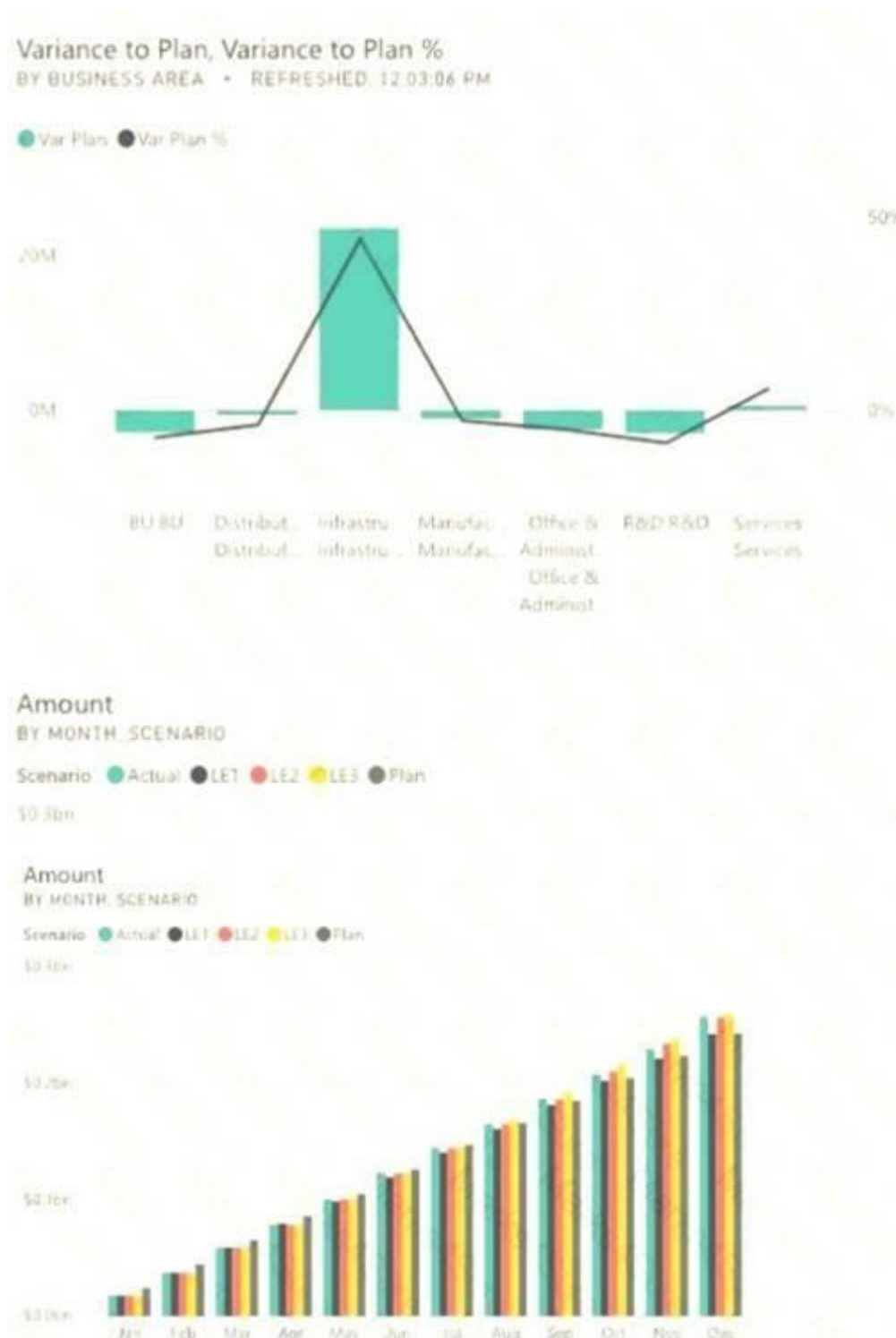
Reference: <https://datasavvy.me/2019/02/28/what-data-is-being-sent-externally-by-power-bi-visuals/>

Question 65

CertyIQ

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. The dashboard tile cache refreshed.

B. A new transaction was added to the data source.

C. A user pressed F5.

D. A user added a comment to a tile.

Explanation:

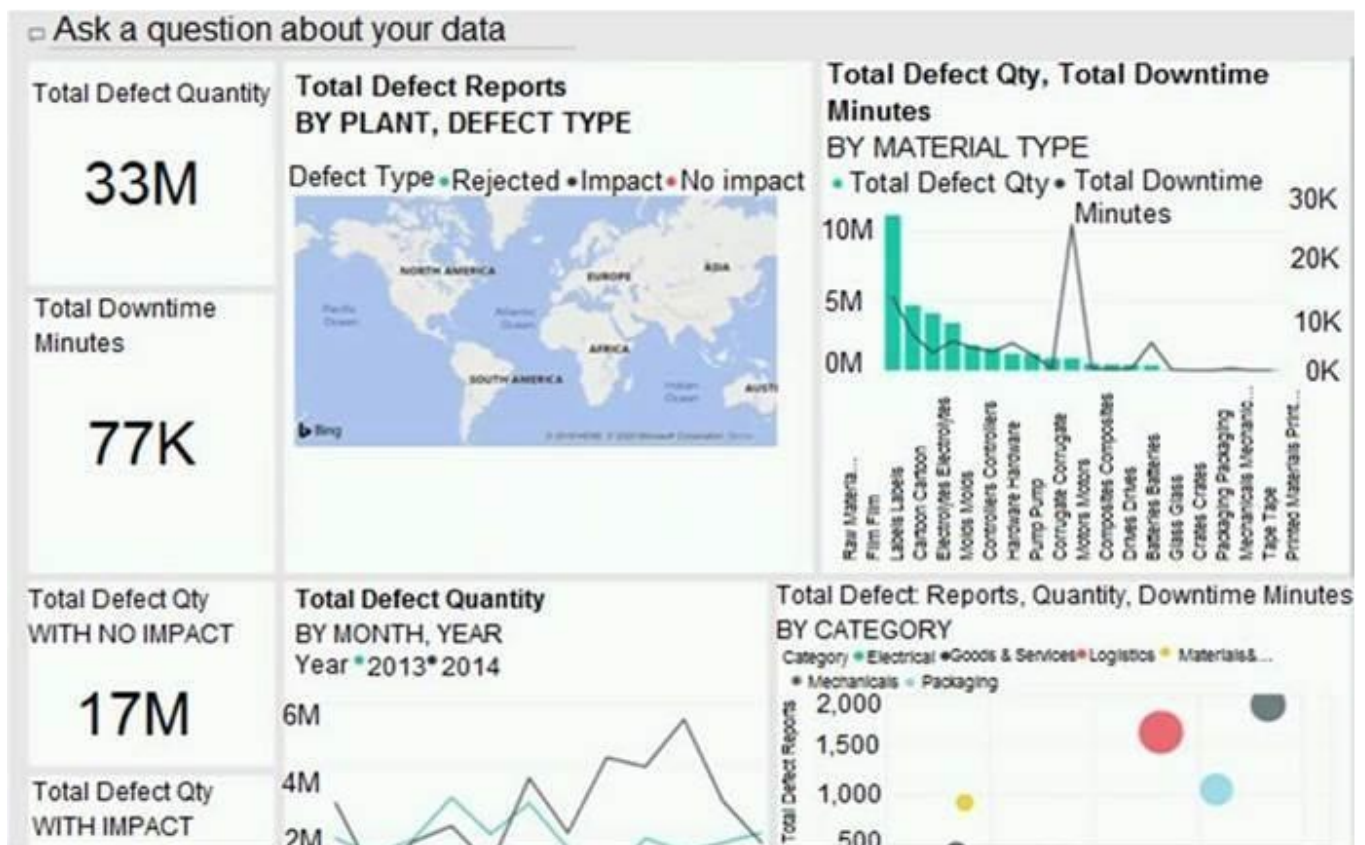
Correct answer – A

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

Question 66

CertyIQ

You have a dashboard that contains tiles pinned from a single report as shown in the Original Dashboard exhibit. (Click the Original Dashboard tab.)



You need to modify the dashboard to appear as shown in the Modified Dashboard exhibit. (Click the Modified Dashboard tab.)



What should you do?

- A. Edit the details of each tile.
- B. Change the report theme.

C. Change the dashboard theme.

- D. Create a custom CSS file.

Explanation:

Correct answer – C

Reference: <https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-report-themes>

Question 67

CertyIQ

DRAG DROP -

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.

Select and Place:

Actions		Answer Area
Pin items from the reports to the dashboard.		
Rearrange, resize, or remove items from the phone view.		
Edit the Dashboard mobile view.	⬅	⬆
Open the dashboard.	➡	⬇
Create a phone layout for the existing reports.		

Correct Answer:

Actions		Answer Area
		Pin items from the reports to the dashboard.
		Open the dashboard.
	⬅	Edit the Dashboard mobile view.
	➡	Rearrange, resize, or remove items from the phone view.
Create a phone layout for the existing reports.		

Explanation:

Correct answer –

Power bi service you can optimize your power bi dashboard for mobile in 4 steps:

- ➡ Pin the items from the reports to the dashboard.
- ➡ Open the dashboard.
- ➡ Change the dashboard view to Phone view.

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

Reference: <https://devoworx.net/power-bi-dashboard-for-mobile/>

Question 68

CertyIQ

You build a report to help the sales team understand its performance and the drivers of sales.

The team needs to have a single visualization to identify which factors affect success. Which type of visualization should you use?

A. Line and clustered column chart

B. Key influencers

C. Q&A

D. Funnel chart

Explanation:

Correct answer – b

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

⇒ See which factors affect the metric being analyzed.

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

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

Question 69

CertyIQ

HOTSPOT -

You have a dataset named Pens that contains the following columns:

⇒ Unit Price ⇒ Quantity Ordered

You need to create a visualization that shows the relationship between Unit Price and Quantity Ordered. The solution must highlight orders that have a similar unit price and ordered quantity.

Which type of visualization and which feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point. Hot Area:

Answer Area

Visualization: ▼

A column chart of Quantity Ordered and Unit Price by year
A line chart of Quantity Ordered and Unit Price by item
A scatter plot of Quantity Ordered and Unit Price by item

Feature: ▼

Automatically find clusters
Explain the decrease
Find where the distribution is different

Answer:

Answer Area

Visualization: ▼

A column chart of Quantity Ordered and Unit Price by year
A line chart of Quantity Ordered and Unit Price by item
A scatter plot of Quantity Ordered and Unit Price by item

Feature: ▼

Automatically find clusters
Explain the decrease
Find where the distribution is different

Explanation:

Correct answer –

Box 1: A scatter plot...

A scatter chart always has two value axes to show: one set of numerical data along a horizontal axis and another set of numerical values along a vertical axis. The chart displays points at the intersection of an x and y numerical value, combining these values into single data points. Power BI may distribute these data points evenly or unevenly across the horizontal axis. It depends on the data the chart represents.

Box 2: Automatically find clusters

Scatter charts are a great choice to show patterns in large sets of data, for example by showing linear or non-linear trends, clusters, and outliers.

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

Question 70

CertyIQ

You use an R visual to produce a map of 500,000 customers. You include the values of CustomerID, Latitude, and Longitude in the fields sent to the visual. Each customer ID is unique.

In powerbi.com, when users load the visual, they only see some of the customers. What is the cause of the issue?

- A. The visual was built by using a different version of R.
- B. The data comes from a Microsoft SQL Server source.
- C. The data is deduplicated.

D. Too many records were sent to the visual

Explanation:

Correct answer – D

R visuals in the Power BI service have a few limitations including:

➡ Data size limitations – The data used by the R visual for plotting is limited to 150,000 rows. If more than 150,000 rows are selected, only the top 150,000 rows are used and a message is displayed on the image. Additionally, the input data has a limit of 250 MB.

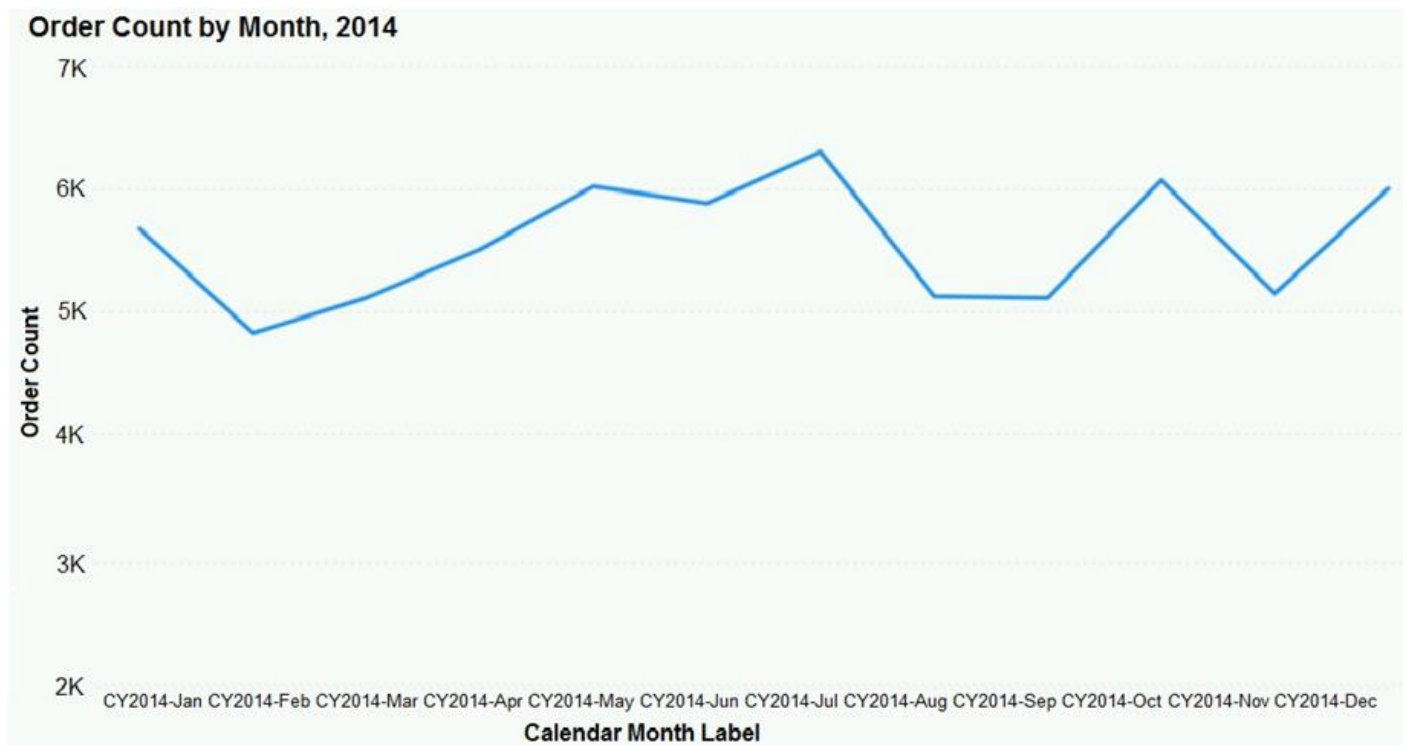
Reference: <https://docs.microsoft.com/en-us/power-bi/visuals/service-r-visuals>

Question 71

CertyIQ

DRAG DROP -

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



You need to modify the chart to meet the following requirements:

- Identify months that have order counts above the mean.
- Display the mean monthly order count.

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:

Actions

Answer Area

Create a 12-month rolling average quick measure and add the measure to the line chart value.

From the Analytics pane, add a Median line.

Select the line chart.

From the Analytics pane, add an Average line.

Turn on data labels for the new line.



Actions

Create a 12-month rolling average quick measure and add the measure to the line chart value.

From the Analytics pane, add a Median line.

Select the line chart.

From the Analytics pane, add an Average line.

Turn on data labels for the new line.

Answer Area

Select the line chart.

From the Analytics pane, add an Average line.

Turn on data labels for the new line.

Suggested Answer:

⏮
⏭

⏮
⏭

Explanation:

Correct answer –

1. Select the line chart
2. Add the average line
3. Turn on Data Label

Question 72

CertyIQ

DRAG DROP -

You have a query named Customer that imports CSV files from a data lake. The query contains 50,000 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.

Select and Place:

Actions		Answer Area
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.		

	Actions		Answer Area
Suggested Answer:	Filter the Customer query on Modified Date is Latest.		Duplicate the Customer query and name the new query CustomerGrouped.
	Merge the CustomerGrouped query into the Customer query based on Customer ID and Modified Date by using a left outer join.		Group the CustomerGrouped query by Customer ID and output the max Modified Date value into a column named Modified Date.
	Remove duplicates in the Customer ID column.	⬅	Merge the two queries based on Customer ID and Modified Date by using an inner join.
	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.		

Explanation:

Correct answer –

1. Duplicate the query

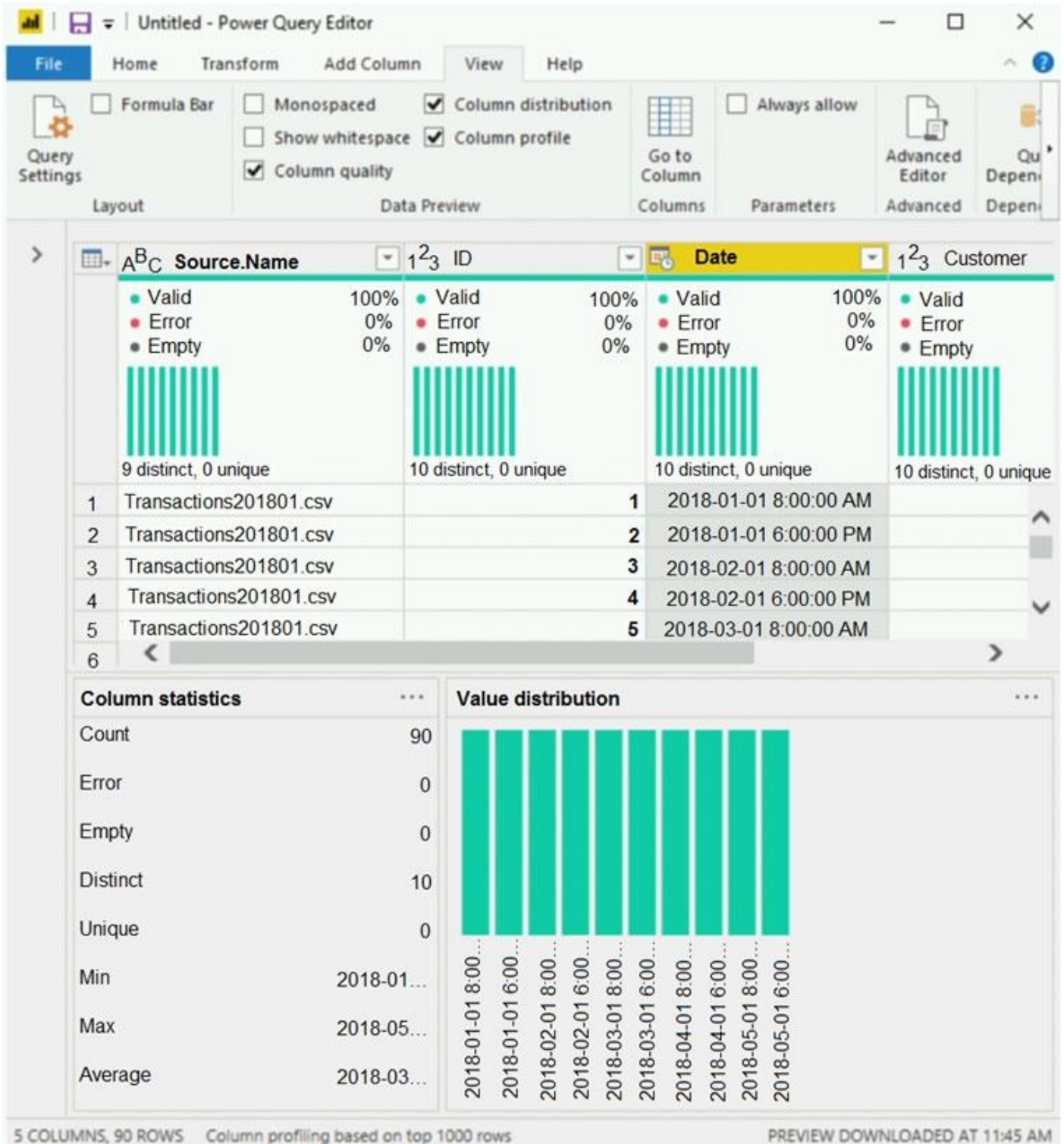
2. Group the query to find the max modified date
3. Merge the query on inner join

Question 73

CertyIQ

HOTSPOT -

You view a query named Transactions as shown in the following exhibit.



The query gets CSV files from a folder.

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

There are [answer choice] CSV files:

	▼
9	
10	
25	
90	
1,000	

Removing duplicates based on the Date column
will reduce the dataset to [answer choice] rows:

	▼
9	
10	
25	
90	
1,000	

Answer Area

Suggested Answer:

There are [answer choice] CSV files:

	▼
9	
10	
25	
90	
1,000	

Removing duplicates based on the Date column
will reduce the dataset to [answer choice] rows:

	▼
9	
10	
25	
90	
1,000	

Explanation:

Correct answer –

Box 1: 9 -

9 distinct CSV files.

Box 2: 10 -

10 distinct dates.

Your company has employees in 10 states.

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

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

You have a report that shows the employees by state.

You need to view the employees by region as quickly as possible.

What should you do?

A. Create a new aggregation that summarizes by employee.

B. Create a new group on the state column and set the Group type to List.

C. Create a new group on the state column and set the Group type to Bin.

D. Create a new aggregation that summarizes by state.

Explanation:

Correct answer – B

Because List is used to create string groups. Bin is used to create numeric groups.

<https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-grouping-and-binning>

Question 75

CertyIQ

HOTSPOT -

You are creating a Microsoft Power BI imported data model to perform basket analysis. The goal of the analysis is to identify which products are usually bought together in the same transaction across and within sales territories.

You import a fact table named Sales as shown in the exhibit. (Click the Exhibit tab.)

Results Messages														
	Sales RowID	Product Key	OrderDate Key	OrderDate	Customer Key	SalesTerritory Key	SalesOrder Number	SalesOrder LineNumber	Order Quantity	LineTotal	TaxAmt	Freight	LastModified	AuditID
1	1	310	20101229	2010-12-29 00:00:00.000	21768	6	SO43697	1	1	3578.27	286.2616	89.4568	2011-01-10 00:00:00.000	127
2	2	346	20101229	2010-12-29 00:00:00.000	28389	7	SO43698	1	1	3399.99	271.9992	84.9998	2011-01-10 00:00:00.000	127
3	3	346	20101229	2010-12-29 00:00:00.000	25863	1	SO43699	1	1	3399.99	271.9992	84.9998	2011-01-10 00:00:00.000	127
4	4	336	20101229	2010-12-29 00:00:00.000	14501	4	SO43700	1	1	699.0982	55.9279	17.4775	2011-01-10 00:00:00.000	127
5	5	346	20101229	2010-12-29 00:00:00.000	11003	9	SO43701	1	1	3399.99	271.9992	84.9998	2011-01-10 00:00:00.000	127
6	6	311	20101230	2010-12-30 00:00:00.000	27645	4	SO43702	1	1	3578.27	286.2616	89.4568	2011-01-11 00:00:00.000	127
7	7	310	20101230	2010-12-30 00:00:00.000	16624	9	SO43703	1	1	3578.27	286.2616	89.4568	2011-01-11 00:00:00.000	127

The related dimension tables are imported into the model.

Sales contains the data shown in the following table.

Column name	Data type	Description
SalesRowID	Integer	ID of the row from the source system, which represents a unique combination of SalesOrderNumber and SalesOrderLineNumber
ProductKey	Integer	Surrogate key that relates to the product dimension
OrderDateKey	Integer	Surrogate key that related to the date dimension and is in the YYYYMMDD format
OrderDate	Datetime	Date and time an order was processed
CustomerKey	Integer	Surrogate key that relates to the customer dimension
SalesTerritoryKey	Integer	Surrogate key that relates to the sales territory dimension
SalesOrderNumber	Integer	Unique identifier of an order
SalesOrderLineNumber	Integer	Unique identifier of a line within an order
OrderQuantity	Integer	Quantity of product ordered
LineTotal	Decimal	Total sales amount of a line before tax
TaxAmt	Decimal	Amount of tax charged for the items on a specified line within an order
Freight	Decimal	Amount of freight charged for the items on a specified line within an order
LastModified	Datetime	The date and time that a row was last modified in the source system
AuditID	Integer	The ID of the data load process that last updated a row

You are evaluating how to optimize the model.

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 SalesRowID and AuditID columns can be removed from the model without impeding the analysis goals.	<input type="radio"/>	<input type="radio"/>
Both the OrderDateKey and OrderDate columns are necessary to perform the basket analysis.	<input type="radio"/>	<input type="radio"/>
The TaxAmt column must retain the current number of decimal places to perform the basket analysis.	<input type="radio"/>	<input type="radio"/>

Answer Area

	Statements	Yes	No
Suggested Answer:	The SalesRowID and AuditID columns can be removed from the model without impeding the analysis goals.	<input checked="" type="radio"/>	<input type="radio"/>
	Both the OrderDateKey and OrderDate columns are necessary to perform the basket analysis.	<input type="radio"/>	<input checked="" type="radio"/>
	The TaxAmt column must retain the current number of decimal places to perform the basket analysis.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation:

Correct answer –

_ Y: not related

_ N: At the first time, I thought it was a Y, because the combination of OrderDate and SalesOrderNumber will be used to distinguish with OrderNumber on other dates (some systems reset the SalesOrderNumber daily). However, taking a closer look at OrderDate and SalesOrderNumber, they are parallely incremented. Thus, SalesOrderNumber has enough information.

_ N: not related

Because the only columns needed for that "Basket analysis" is Product, Transaction (Order) and Territory.

SalesRowID is a row ID of unique combination of SalesOrderNumber and SalesOrderLineNumber.

AuditID is the ID of the data load process in which identifies the updated row.

Removing these columns will not impact the overall goal, which is to identify which products are bought together in same transaction in same territories. Basically, this will be identifying the regional trend.

Question 76

CertyIQ

HOTSPOT -

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.

Hot Area:

Answer Area

Sales PYTD =

VAR startyear =

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

VAR enddate =

LASTDATE (Sales[Date]) - 365

RETURN

	▼	(Sales[Sales]),
CALCULATE (
DATESBETWEEN (
SAMEPERIODLASTYEAR (
SLIM (
	▼	('Calendar' [Date], startyear, enddate)
CALCULATE		
DATESBETWEEN		
SAMEPERIODLASTYEAR		
SLIM		
)		

Answer Area

Sales PYTD =

VAR startyear =

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

VAR enddate =

LASTDATE (Sales[Date]) - 365

RETURN

Suggested Answer:

	▼	(Sales[Sales]),
CALCULATE (
DATESBETWEEN (
SAMEPERIODLASTYEAR (
SLIM (
	▼	('Calendar' [Date], startyear, enddate)
CALCULATE		
DATESBETWEEN		
SAMEPERIODLASTYEAR		
SLIM		
)		

Explanation:

Correct answer –

Based on the options provided, it has to be CALCULATE and DATESBETWEEN.

The DAX syntax is a bit confusing here because 'Sales'[Sales] looks like a fully qualified column reference but it could also be a measure reference. I assume that it's a measure reference because the SUM function alone doesn't allow other arguments beyond the column reference, so we wouldn't even have to ability to add in additional parameters or functions.

Using CALCULATE with the measure reference ('Sales'[Sales]) then allows you to modify the calculation in a filter context with DATESBETWEEN the date range between the two variables.

Reference:

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

Deploy and Maintain Deliverables

Question 77

CertyIQ

You are configuring a Microsoft Power BI data model to enable users to ask natural language questions by using Q&A.

You have a table named Customer that has the following measure. Customer Count =
DISTINCTCOUNT(Customer[CustomerID]) Users frequently refer to customers as subscribers.

You need to ensure that the users can get a useful result for "subscriber count" by using Q&A. The solution must minimize the size of the model. What should you do?

A. Add a synonym of subscriber count to the Customer Count measure

B. Add a calculated table named Subscriber that is a duplicate of the Customer table.

C. Add a description of Subscriber to the Customer table.

D. Add a description of "subscriber count" to the Customer Count measure.

Explanation:

Correct answer – A

You can add synonyms to tables and columns.

Note: This step applies specifically to Q&A (and not to Power BI reports in general). Users often have a variety of terms they use to refer to the same thing, such as total sales, net sales, total net sales. You can add these synonyms to tables and columns in the Power BI model.

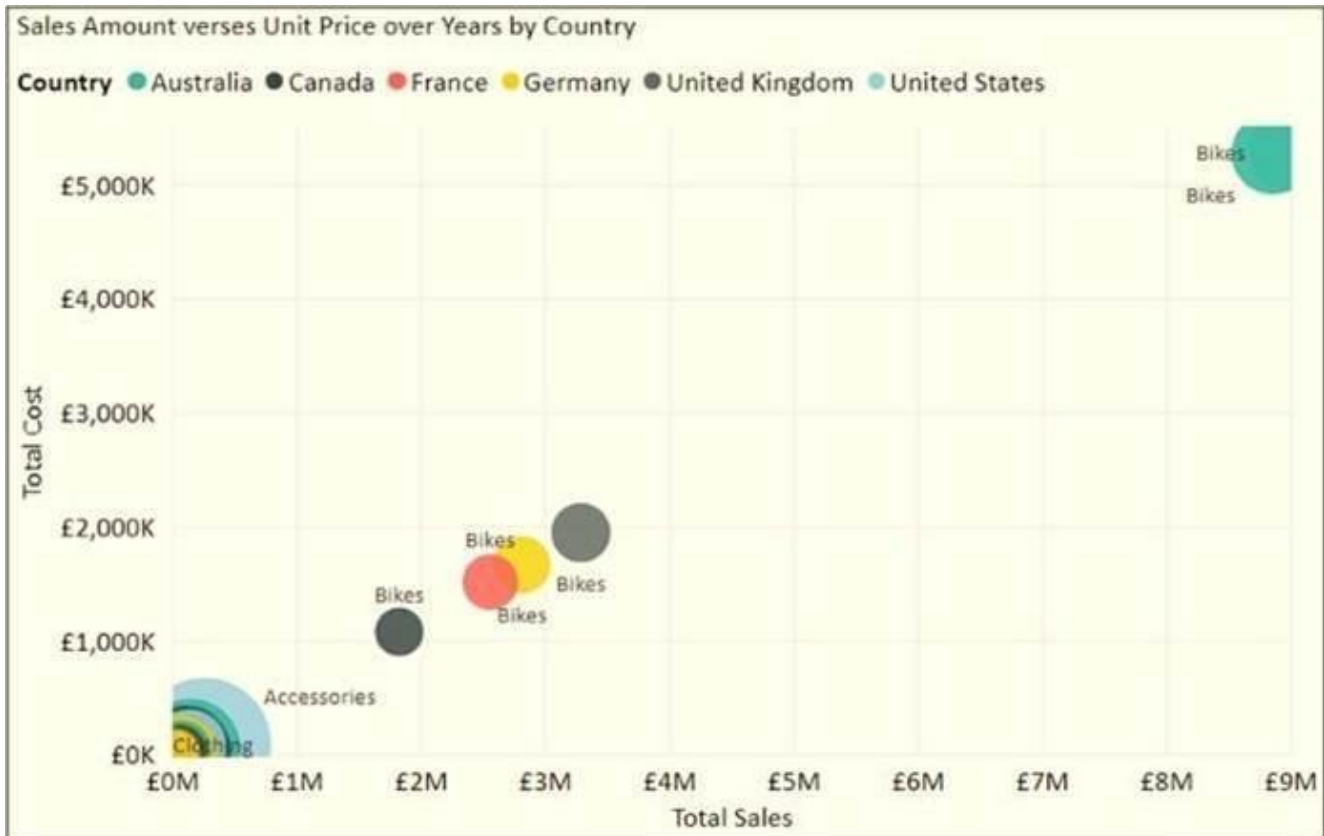
This step applies specifically to Q&A (and not to Power BI reports in general). Users often have a variety of terms they use to refer to the same thing, such as total sales, net sales, total net sales. You can add these synonyms to tables and columns in the Power BI model.

Reference: <https://docs.microsoft.com/en-us/power-bi/natural-language/q-and-a-best-practices>

Question 78

CertyIQ

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

Explanation:

Correct answer – C

You can set up a date field in play axis, and then scatter chart will animate how measure values are compared to each other in each point of a time.

InAnswers:

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

Reference: <https://radacad.com/storytelling-with-power-bi-scatter-chart>

Question 79

CertyIQ

You have a report that contains three pages. One of the pages contains a KPI visualization.

You need to filter all the visualizations in the report except for the KPI visualization.

Which two actions should you perform? Each Answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Configure a report-level filter.
- B. Edit the interactions of the KPI visualization.
- C. Configure a page-level filter.

D. Add the same slicer to each page and configure Sync slicers.

E. Edit the interactions of the slicer that is on the same pages as the KPI visualization.

Explanation:

Correct answer – DE

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

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

InAnswers:

A: Report filter applies to all pages in the report.

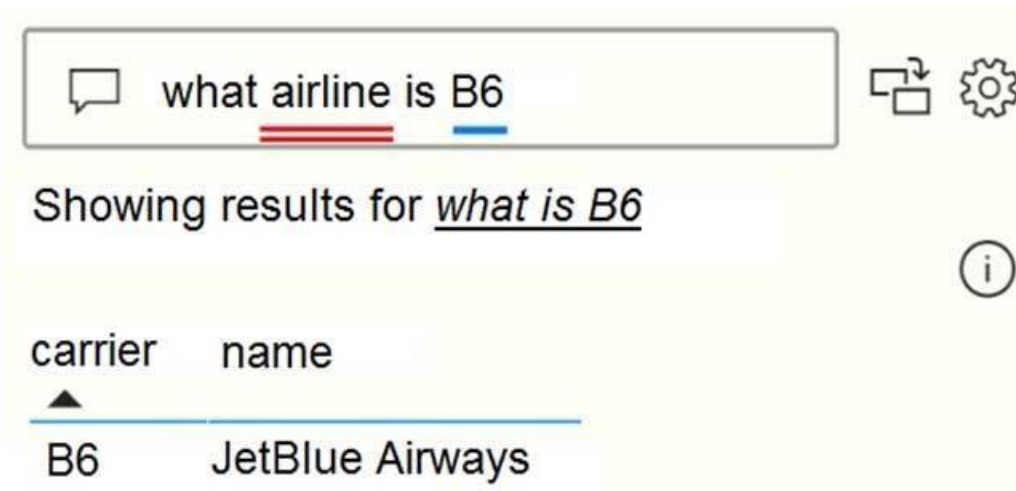
Page filter applies to all the visuals on the report page.

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

Question 80

CertyIQ

You have a Q&A visual that displays information from a table named Carriers as shown in the following exhibit.



You need to ensure that users can ask questions by using the term airline or carrier. The solution must minimize changes to the data model. What should you do?

- A. Add a duplicate query named Airline.
- B. Add airline as a synonym of carrier.
- C. Rename the carrier column as airline in the Carriers query.
- D. Rename the query from Carriers to airlines.

Explanation:

Correct answer – B

Add synonyms to tables and columns: This step applies specifically to Q&A (and not to Power BI reports in general). Users often have a variety of terms they use to refer to the same thing, such as total sales, net sales, total net sales. You can add these synonyms to tables and columns in the Power BI model.

This step can be important. Even with straightforward table and column names, users of Q&A ask questions using the vocabulary that first comes to them. They're not choosing from a predefined list of columns. The more sensible synonyms you add, the better your users' experience is with your report.

Reference: <https://docs.microsoft.com/en-us/power-bi/natural-language/q-and-a-best-practices>

End of Part 2



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