

# **POWER BI**

## **PL-300**

### **PART -6**

### Question 170:

You have a **Power BI report** hosted on **powerbi.com** that displays **expenses by department** for **department managers**.

- The report contains a **line chart** that shows **expenses by month**.
- You need to **enable users to choose** between viewing the report as a **line chart or a column chart**.
- The solution must **minimize development and maintenance effort**.

**Options:**

- A. **Enable report readers to personalize visuals.**
- B. **Create a separate report page for users to view the column chart.**
- C. **Add a column chart, a bookmark, and a button for users to choose a visual.**
- D. **Create a mobile report that contains a column chart.**

**Answer:**

- A. **Enable report readers to personalize visuals.**

**Solution Explanation:**

- **Power BI's "Personalize visuals" feature** allows **users to switch** between different visual types **without developer intervention**.
- This method requires **no extra development effort**—users can toggle between a **line chart and a column chart** themselves.
- **Minimizes maintenance** since users can **customize their view dynamically** rather than relying on **multiple report pages** or **bookmarks**.
- Available in **Power BI Service (powerbi.com)**, where users can **modify visuals** as per their preferences.

**Why Are Other Options Incorrect?**

B. **Create a separate report page for users to view the column chart**

- This **increases development effort** by requiring **two report pages** instead of one.

C. **Add a column chart, a bookmark, and a button for users to choose a visual**

- Requires **extra setup** and **maintenance** to manage **bookmarks and buttons**.
- Not as **user-friendly** as the **Personalize visuals** feature.

 D. Create a mobile report that contains a column chart

- A **mobile report** is unnecessary if the goal is just to allow users to switch visuals.

**Question 171:**

You have a dataset that contains revenue data from the past year.

You need to use anomaly detection in Power BI to show anomalies in the dataset.

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

**Answer Area**

Chart type:

|         |
|---------|
| Line    |
| Pie     |
| Treemap |

Chart configuration:

|                                     |
|-------------------------------------|
| Select the Show value as option     |
| Enable Cross-report drill-through   |
| Populate the axis with a date field |

**Answer:**

Box 1: Line -

Box 2: Populate the axis with a date field

**Question 172:**

**Question:**

You have **two Power BI reports, ReportA and ReportB**, that each uses a **distinct color palette**.

- You are **creating a Power BI dashboard** that will include **two visuals from each report**.
- You need to use a **consistent dark theme** for the dashboard.
- The solution must **preserve the original colors** of the reports.

**Options:**

- A. Upload a snapshot.
- B. For the browser, set the color preference to dark mode.
- C. When pinning visuals to the dashboard, select "Use destination theme".
- D. Select the dark dashboard theme.
- E. Turn on tile flow.

**Answer:**

- C. When pinning visuals to the dashboard, select "Use destination theme".
- D. Select the dark dashboard theme.

**Solution Explanation:**

- Dashboards in Power BI allow for **theme customization** without affecting the underlying reports.
- Selecting a dark dashboard theme (Option D) ensures that the dashboard itself has a **consistent dark background**.
- Using the "Use destination theme" option (Option C) while pinning **preserves the original colors of the visuals** from ReportA and ReportB.
- This approach meets both requirements: a **dark theme for the dashboard** while **keeping report colors intact**.

**Why Are Other Options Incorrect?**

- A. Upload a snapshot.
  - Snapshots are **static images** and **do not update dynamically**.
- B. For the browser, set the color preference to dark mode.
  - This only changes **the browser interface**, not the **Power BI dashboard theme**.
- E. Turn on tile flow.
  - Tile flow only **adjusts the arrangement of tiles dynamically**; it does not affect **color themes**.

### Question 173:

#### Question:

You have a **line chart** that shows the **number of employees** in a department over time.

- You need to **see the total salary costs** of the employees **when you hover over a data point**.

#### Options:

- A. Add salary to the drillthrough fields.
- B. Add salary to the visual filters.
- C. Add salary to the tooltips.

#### Answer:

- C. Add salary to the tooltips.

#### Solution Explanation:

- **Tooltips** in Power BI allow you to **display additional information** when you hover over a data point.
- By **adding "Salary" to the tooltips**, the total salary cost will appear when you hover over any data point on the **line chart**.
- This method **does not change the visual itself** but provides additional insights **on hover**.

#### Why Are Other Options Incorrect?

- A. Add salary to the drillthrough fields.

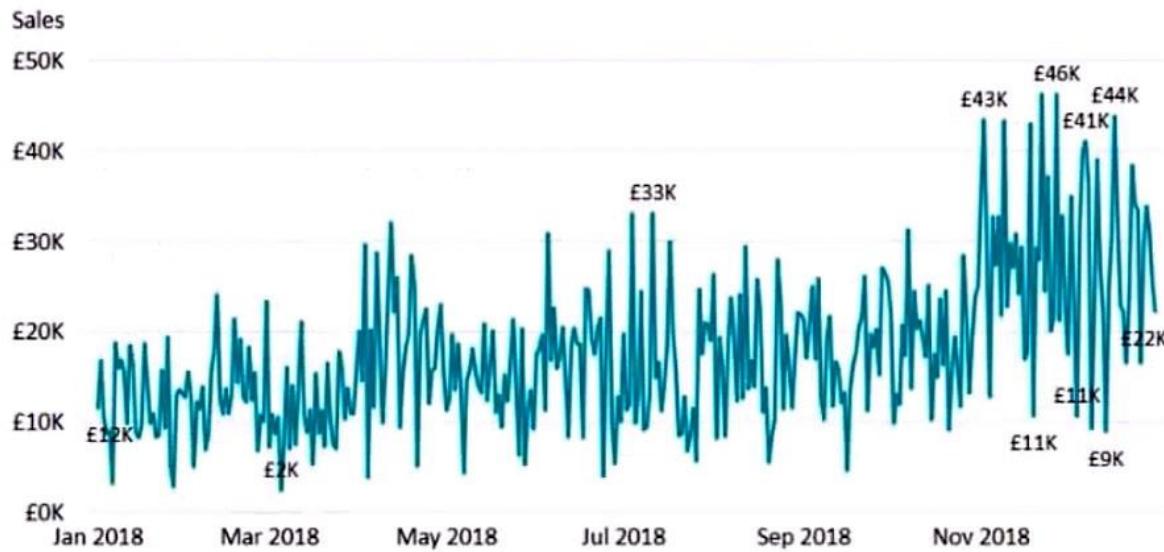
- Drillthrough is used to **navigate to a different page** with detailed data, not for tooltips.
- It would require **clicking on a data point**, not just hovering.

- B. Add salary to the visual filters.

- Filters are used to **restrict data** shown in the chart but **do not display additional information on hover**.

### Question 174:

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?

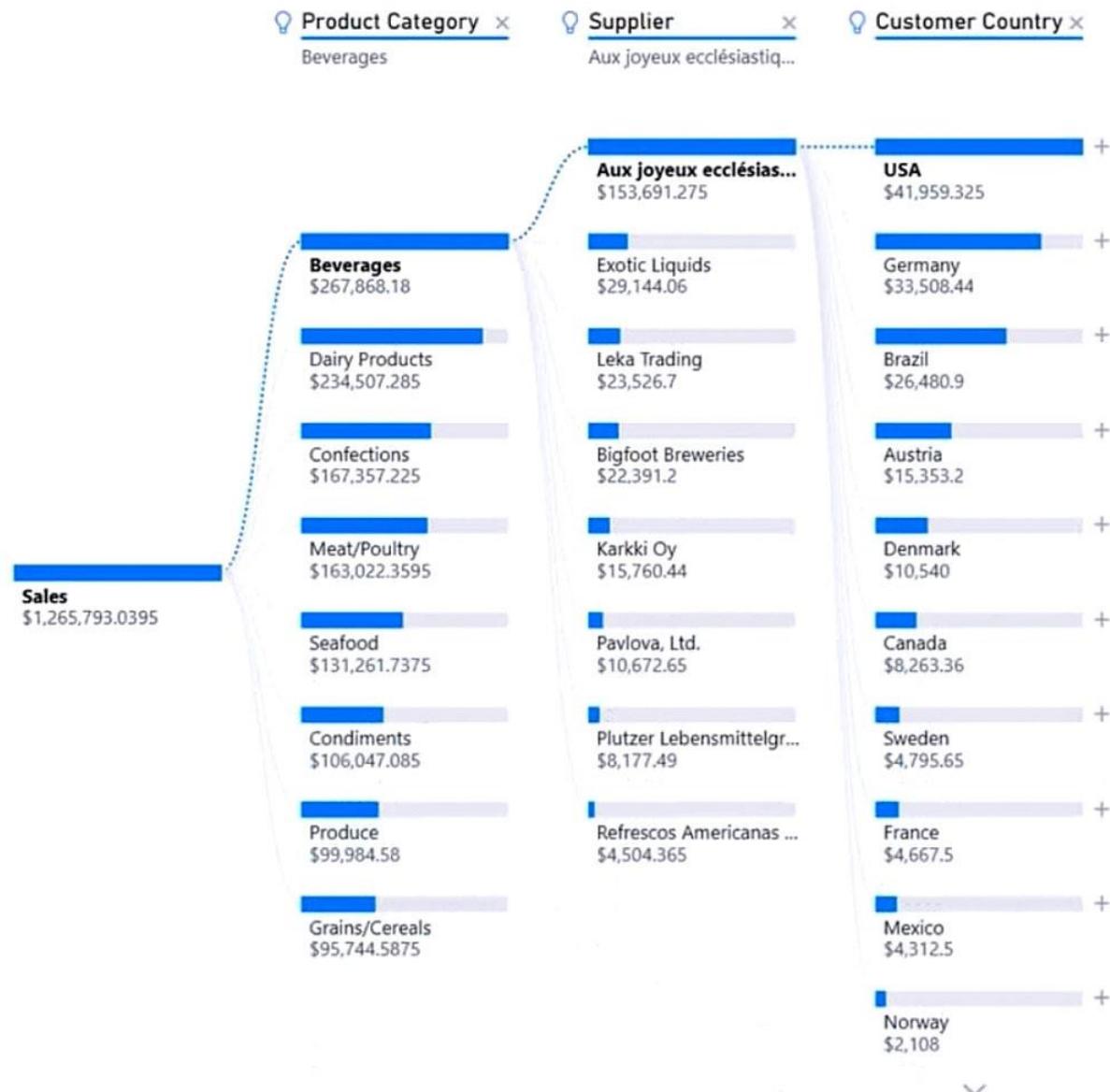
- A. a measure
- B. an Average line
- C. a trendline
- D. a forecast

**Answer:**

D FORECAST.

### Question 175:

You need to create a visual that enables the adhoc exploration of data as shown in the following exhibit.



Which type of visual should you use?

- A. smart narrative
- B. decomposition tree
- C. Q&A
- D. key influencers

**Answer:**

B. DECOMPOSITION TREE

### Question 176:

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 historical employee counts and predicts trends during the next six months. Which type of visualization should you use?

- A. ribbon chart
- B. scatter chart
- C. line chart
- D. key influencers

**Answer:**

C. LINE CHART

### Question 177:

**Question:**

Your company has employees in **10 states**.

- The company recently decided to associate each state to **one of three regions: East, West, and North**.
- The **data model does NOT include region information** but contains **employee details by state**.
- You have a **report showing employees by state**, and you need to **view employees by region as quickly as possible**.

**Options:**

- A. Create a new aggregation that summarizes by state.
- B. Create a new aggregation that summarizes by employee.
- C. Create a new group on the state column and set the Group type to List.
- D. Create a new group on the state column and set the Group type to Bin.

**Answer:**

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

### Solution Explanation:

- In Power BI, **grouping** allows you to **categorize values** based on a custom logic.
- Since each **state belongs to a specific region**, creating a group on the state column and setting it to **List type** will allow you to **manually assign each state to East, West, or North**.
- This method is **quick and does not require modifying the data model**.

### Why Are Other Options Incorrect?

**X A. Create a new aggregation that summarizes by state.**

- Aggregations are used for **performance optimization**, not for **grouping categorical values** like states into regions.

**X B. Create a new aggregation that summarizes by employee.**

- Summarizing by employee **won't create region groupings**, making this option irrelevant.

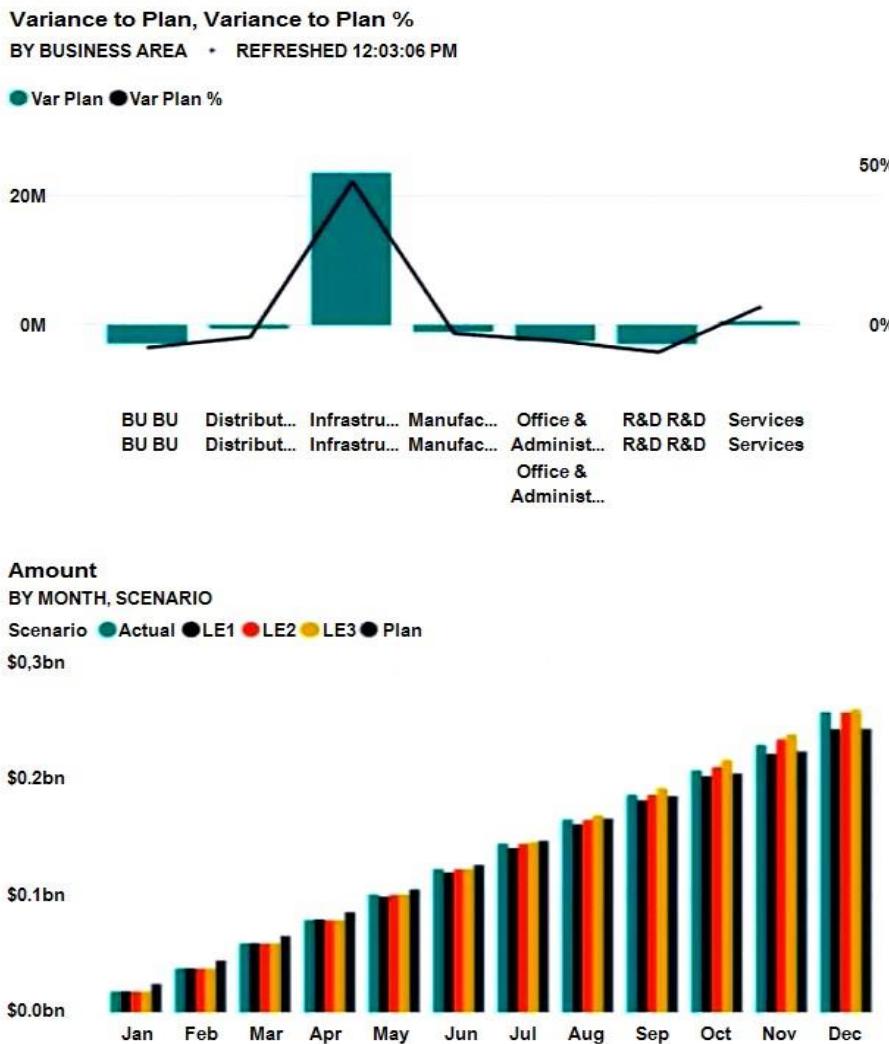
**X D. Create a new group on the state column and set the Group type to Bin.**

- **Binning** is used for **numeric data ranges** (e.g., salary ranges, age groups) and **not for categorical grouping** like states into regions.

### Question 178:

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

**Answer:**

- C. The dashboard tile cache refreshed.**

A tile is a report visual pinned to a dashboard, and dashboard tile refreshes happen about every hour so that the tiles show recent results. You can change the schedule in the dataset settings, as in the screenshot below, or force a dashboard update manually by using the Refresh now option.

If you press F5 or hit the refresh button, the dashboard charts gets updated.

Note: Power BI enables you to go from data to insight to action quickly, yet you must make sure the data in your Power BI reports and dashboards is recent.

### Question 179:

You need to create a Power BI report. The first page of the report must contain the following two views:

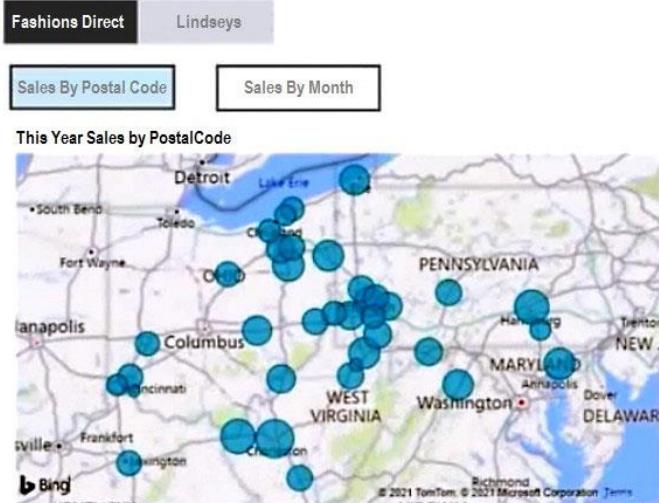
Sales By Postal Code

Sales by Month

Both views must display a slicer to select a value for a field named Chain.

The Sales By Postal Code view must display a map visual as shown in the following exhibit.

Chain



The Sales By Month view must display a column chart visual as shown in the following exhibit.

Chain



Users must be able to switch between the views by using buttons on the report page. The selected Chain field must be maintained when switching between views.

What is the minimum number of bookmarks required, and which property should you apply to each bookmark? To answer, select the appropriate options in the answer area.

### Answer Area

Minimum number of bookmarks:

|   |
|---|
| 1 |
| 2 |
| 3 |
| 4 |

Property:

|              |
|--------------|
| Data         |
| Display      |
| Current page |

Answer:

#### Box 1: 2 (Two bookmarks)

- One **bookmark** for the **Sales by Postal Code (Map View)**.
- One **bookmark** for the **Sales by Month (Column Chart View)**.
- These bookmarks allow users to switch between the two views while keeping their selected slicer value.

#### Box 2: Display

- The **Display** property should be applied to each bookmark to ensure that the **selected Chain field (slicer value)** remains unchanged when switching views.
- This ensures that the user experience is **seamless**, and the **data selection is preserved**.

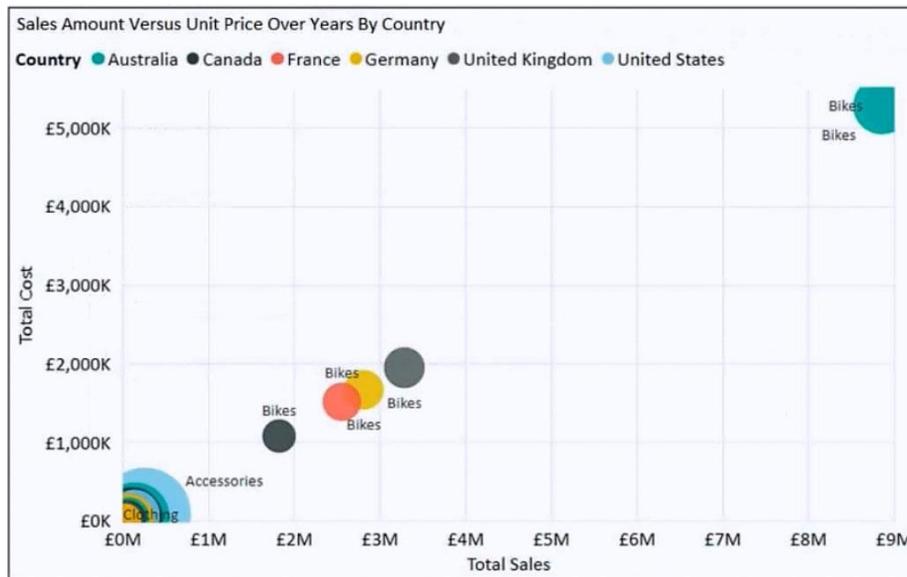
Explanation:

- **Bookmarks** in Power BI **save the current state of the report** (filters, slicers, sorting, visuals, etc.).
- Since **two different visuals (map & column chart)** are required, **two bookmarks** are needed—**one for each visual**.
- The **Display** property ensures that the **slicer selection is maintained** when switching views.

Thus, the **minimum number of bookmarks required is 2**, and the **Display** property should be applied to each.

## Question 180:

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



You need to show the relationship between Total Cost and Total Sales over time.

What should you do?

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

**Answer:**

A. ADD A PLAY AXIS

**Explanation:**

- A **play axis** allows you to **animate changes** over time, helping visualize how **Total Cost** and **Total Sales** **evolve** dynamically.
- This is useful for **trend analysis** over time rather than just viewing static data.

**Why not the other options?**

B. **Add an Average Line** – This would show an overall trend but wouldn't effectively display the relationship between Total Cost and Total Sales over time.

C. **Add a Slicer for the Year** – A slicer would help filter the data for specific years but wouldn't provide a dynamic view of the relationship over time.

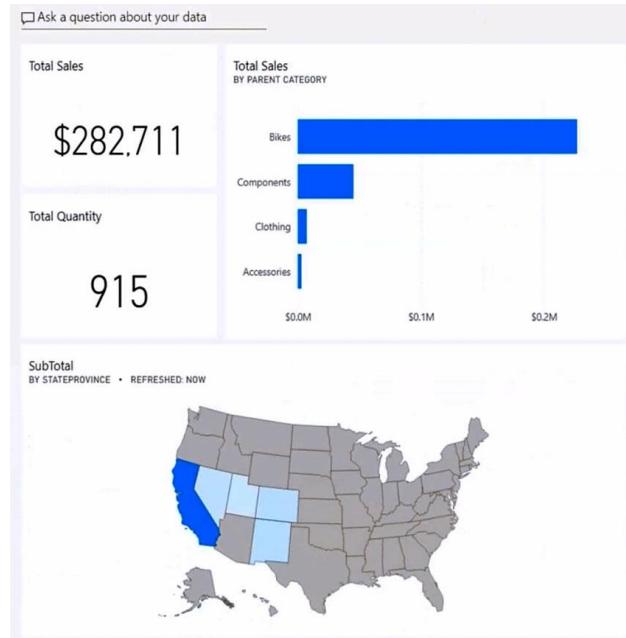
D. **Create a DAX Measure for YoY Growth** – Year-over-year growth is useful for comparison but **does not show the direct relationship** between Total Cost and Total Sales.

**Final Answer: A. Add a play axis.**

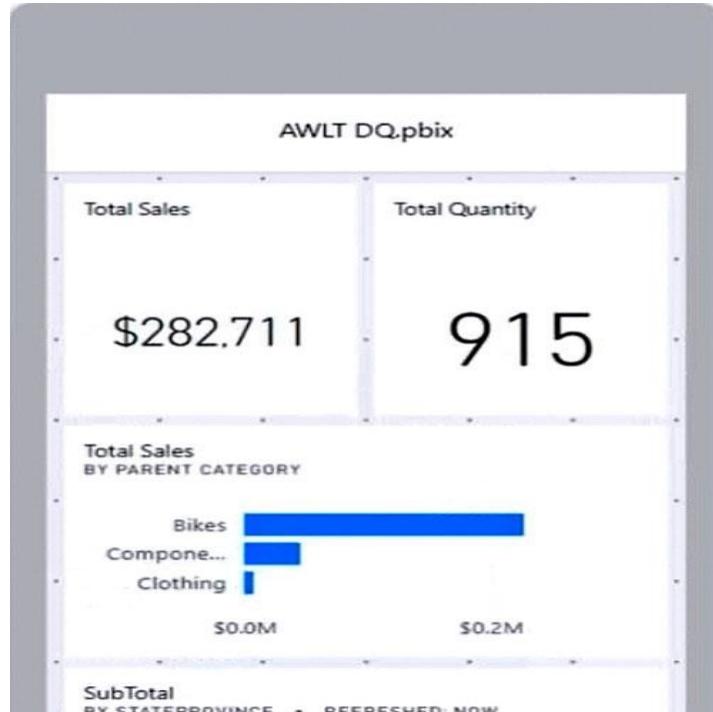
This provides a **time-based animation**, making it easier to track trends between Total Cost and Total Sales over different periods.

### Question 181:

You have the Power BI dashboard shown in the Dashboard exhibit. (Click the Dashboard tab.)



You need to ensure that when users view the dashboard on a mobile device, the dashboard appears as shown in the Mobile exhibit. (Click the Mobile tab.)



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

**Answer Area**

Update the layout in the:

|                         |
|-------------------------|
| Dashboard mobile layout |
| Dashboard web layout    |
| Report mobile layout    |

Resize and move:

|  |
|--|
| The SubTotal map tile                    |
| The Total Sales and Total Quantity tiles |
| The Total Sales by Parent Category tile  |

**Answer:**

- Box 1: Update Dashboard Mobile Layout
- Box 2: Resize and move total sales and total quantity

**Question 182:**

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. area chart
- B. scatter plot
- C. pie chart
- D. donut chart

**Answer:**

- B. SCATTER CHART

### Question 183:

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.

#### Options:

- A. Decomposition Tree
- B. Funnel Chart
- C. Q&A
- D. Key Influencers

#### Answer:

D. Key Influencers

#### Solution:

The **Key Influencers** visual is best suited for this scenario because it **automatically identifies and ranks the key factors** affecting Bounce Rate. It dynamically analyzes **multiple dimensions** (e.g., source, geography, demographics) and provides insights into which factors **positively or negatively impact** Bounce Rate. This reduces the need for manual filtering and speeds up customer segmentation analysis.

#### Why Other Options Are Incorrect?

- ✗ A. **Decomposition Tree** – While useful for breaking down data hierarchically, it requires **manual exploration** and does not automatically find the most important influencers.
- ✗ B. **Funnel Chart** – Funnel charts are mainly used for tracking **progression through stages** (e.g., sales funnel) and are **not suited** for analyzing Bounce Rate influences.
- ✗ C. **Q&A** – Q&A allows users to ask questions about data using natural language, but it does **not provide automated insights** into the **key drivers** of Bounce Rate.

### Question 184:

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**.

#### Options:

- A. Edit the interactions of the KPI visualization.
- B. Add the same slicer to each page and configure Sync slicers.
- C. Edit the interactions of the slicer that is on the same page as the KPI visualization.
- D. Configure a page-level filter.
- E. Configure a report-level filter.

**Answer:**

- A. Edit the interactions of the KPI visualization.
- C. Edit the interactions of the slicer that is on the same page as the KPI visualization.

**Solution:**

To filter all the visualizations except the **KPI visualization**, you need to **control the interactions** between the slicer and the KPI.

1. **Edit the slicer's interaction settings (Option C)** – This ensures that the slicer does **not affect the KPI visualization**, but still filters other visuals.
2. **Edit the KPI visualization's interaction settings (Option A)** – This prevents the KPI from responding to slicers while allowing other visuals to be filtered.

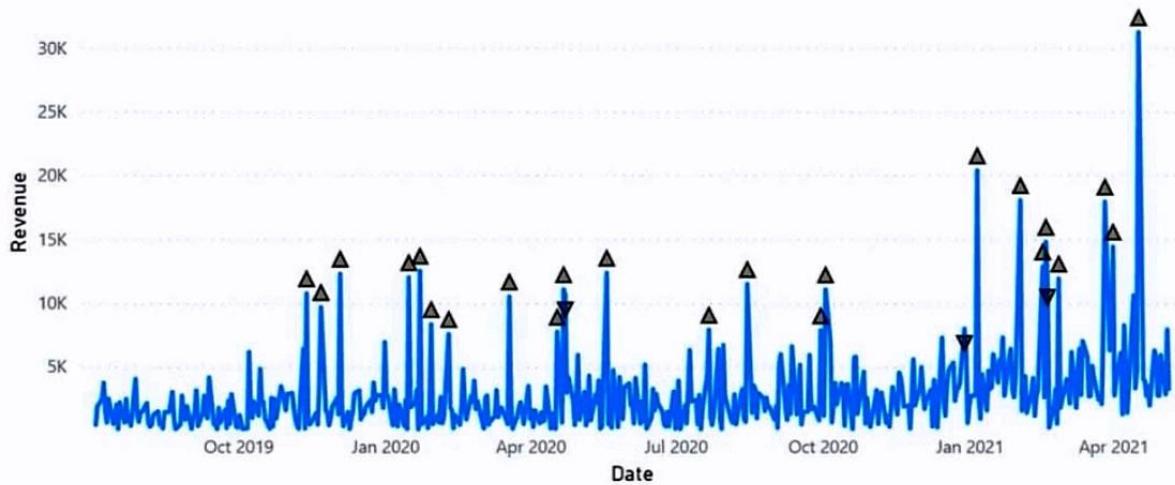
**Why Other Options Are Incorrect?**

- B. **Add the same slicer to each page and configure Sync slicers** – This synchronizes slicers across pages but does **not exclude the KPI visualization** from filtering.
- D. **Configure a page-level filter** – Page-level filters apply to **all visuals** on a page, so they cannot exclude the KPI visualization.
- E. **Configure a report-level filter** – This would affect **all pages and visuals**, which does not meet the requirement of **excluding** the KPI visualization from filtering.

**Question 185:**

You have a Power BI visual that uses indicators to show values that are out of range as shown in the following exhibit.

**Revenue by Date**



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

**Answer Area**

The visual type is [answer choice] chart.

|                             |
|-----------------------------|
| a line                      |
| a line and clustered column |
| an area                     |

The visual indicators that show values out of range are created by using [answer choice].

|                    |
|--------------------|
| a custom visual    |
| a trendline        |
| anomaly detection  |
| line chart markers |

**Answer:**

A. A LINE

B. ANOMOLY DETECTION

**Question 186:**

You are creating a Power BI report to analyze **consumer purchasing patterns** from a table named **Transactions**.

The **Transactions** table contains a numeric field named **Spend**.

You need to include a visual that **identifies which fields have the greatest impact on Spend**.

**Options:**

- A. Q&A
- B. Smart Narrative
- C. Decomposition Tree
- D. Key Influencers

**Answer:**

D. Key Influencers

**Solution:**

The **Key Influencers** visual is designed to identify factors that have the **greatest impact** on a selected measure, in this case, **Spend**. It automatically analyzes relationships between fields and shows which dimensions (e.g., age, product type, region) affect spending the most.

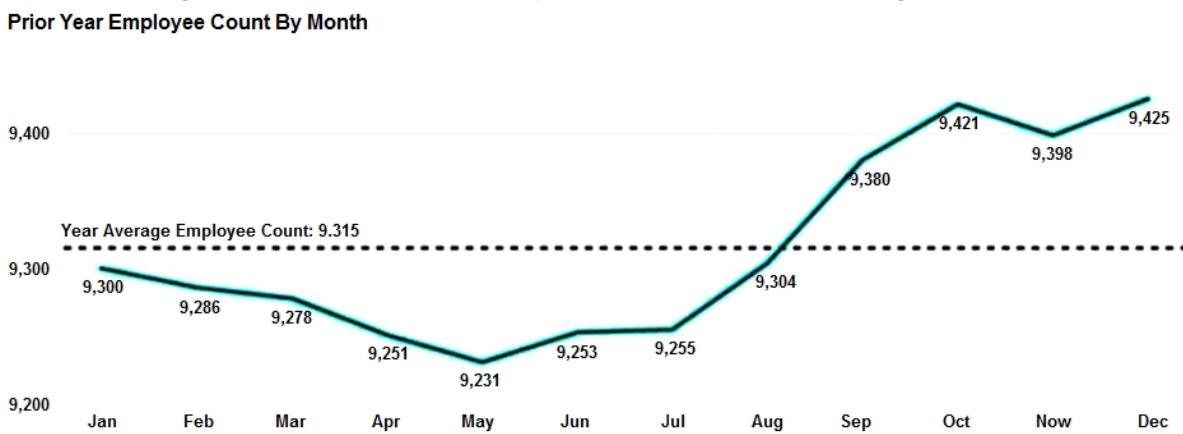
- This visual is useful for understanding what **drives variations** in a numeric value.
- It provides both **positive and negative** influences on the target metric.
- It supports both **categorical and numerical fields** as potential influencers.

### Why Other Options Are Incorrect?

- ✗ **A. Q&A** – This feature allows users to **ask natural language questions** about the data, but it does not perform an **influence analysis** on Spend.
- ✗ **B. Smart Narrative** – This provides **text-based summaries** of data insights but does not **analyze or rank** influencing factors.
- ✗ **C. Decomposition Tree** – This visual helps **break down** a value into different categories step by step, but it does **not automatically identify key influencing factors**.

### Question 187:

You are creating a line chart in a Power BI report as shown in the following exhibit.



Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

The dashed line representing the Year Average Employee Count was created by using [answer choice].

|                                   |
|-----------------------------------|
| a trend line                      |
| a secondary axis                  |
| an average reference line         |
| two measures in the Values bucket |

To enable users to drill down to weeks or days, add the Weeks and Days field to the [answer choice] bucket.

|                  |
|------------------|
| Axis             |
| Values           |
| Legend           |
| Secondary values |

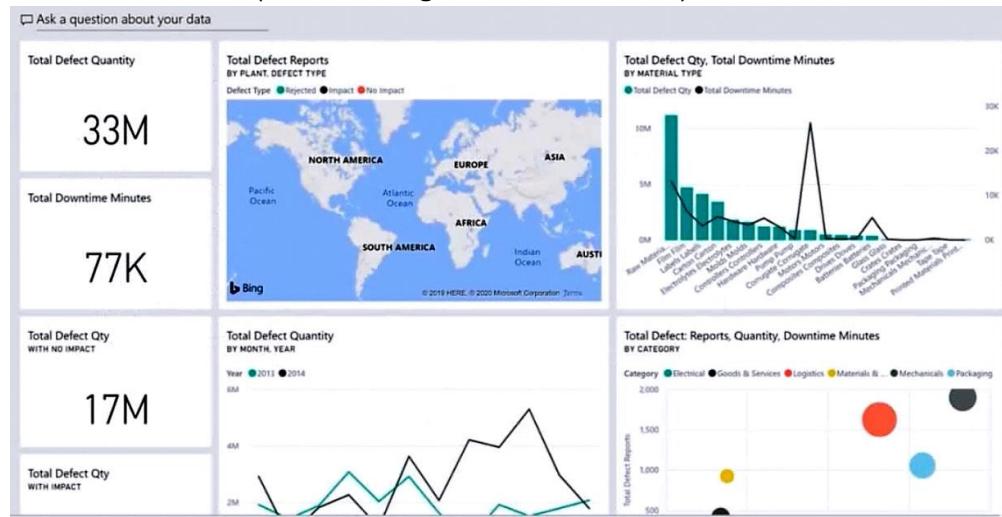
**Answer:**

Box 1: **an average reference line**

Box 2: **Axis**

## Question 188:

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

**Answer:**

**B. CHANGE THE DASHBOARD THEME**

### Question 190:

You have a **Power BI report** that contains a **visual** showing **gross sales by date**.

The visual has **anomaly detection enabled**, but **no anomalies are detected**.

You need to **increase the likelihood** that anomaly detection will **identify anomalies** in the report.

#### Options:

- A. Increase the **Expected range transparency** setting.
- B. Add a **data field** to the **Legend** field well.
- C. Increase the **Sensitivity** setting.
- D. Add a **data field** to the **Secondary values** field well.

#### Answer:

- C. Increase the **Sensitivity** setting.

#### Solution:

- **Anomaly detection in Power BI** works by identifying unusual patterns in the data.
- The **Sensitivity setting** controls how **strict** Power BI is in detecting anomalies.
- **Higher sensitivity** makes Power BI more likely to **flag data points as anomalies**, increasing detection rates.
- If no anomalies are detected, **increasing sensitivity** can help by **reducing the threshold** for an anomaly.

#### Why Other Options Are Incorrect?

✗ A. Increase the **Expected range transparency** setting – This only **changes the visibility** of the expected range but **does not influence anomaly detection**.

✗ B. Add a **data field** to the **Legend** field well – This may **split data into multiple series**, but it does not **impact anomaly detection sensitivity**.

✗ D. Add a **data field** to the **Secondary values** field well – This is used for **combining multiple measures in one visual**, but it **does not affect anomaly detection**.

### Question 191:

You maintain a **Power BI workspace** that contains a **supplier quality dashboard** with:

- **10 card visuals, 2 map visuals, and 5 bar chart visuals.**



The **dashboard mobile layout** needs to be modified to meet these requirements:

- Only show single-value visuals.**
- Minimize scrolling.**

**Options:**

- Decrease the size of the card visuals and remove the map and bar chart visuals.**
- Decrease the size of the map and bar chart visuals and move all the card visuals to the top of the layout.**
- Remove the card visuals and increase the size of the map and bar chart visuals.**
- Move the bar chart visuals to the top, remove the map visuals, and decrease the size of the card visuals.**

**Answer:**

- A. Decrease the size of the card visuals. Remove the map and bar chart visuals.**

**Solution:**

- **Single-value visuals** refer to **card visuals**, which display a single numerical value (e.g., total revenue, average rating).

- To meet the requirement, only card visuals should be kept, and map & bar chart visuals should be removed.
- Minimizing scrolling can be achieved by reducing the size of the card visuals and ensuring they fit within the mobile layout.

#### Why Other Options Are Incorrect?

- ✗ B. Decrease the size of the map and bar chart visuals & move card visuals to the top – This still keeps map and bar charts, which do not show single values.
- ✗ C. Remove the card visuals & increase the size of the map and bar chart visuals – This violates the requirement of showing only single-value visuals.
- ✗ D. Move bar charts to the top, remove maps, and decrease card visual size – This still includes bar charts, which do not meet the single-value requirement.

#### Question 192:

You have a **Power BI report** with a table named **Data1**, containing **10 million rows**.

The table is used in the following **visuals**:

- A card that shows the **number of records**
- A bar chart that shows **total transaction amount by territory**
- A scatter plot that shows **transaction amount and profit amount** on the axes, with **points colored by territory**

You need to **modify the scatter plot** to make it easier for users to identify meaningful patterns without affecting the accuracy of the other visuals.

Options:

- A. Add a count field of the transaction amount to the size bucket of the scatter plot.
- B. Add a trend line to the scatter plot.
- C. Enable high-density sampling on the scatter plot.
- D. Apply a row filter to the Data1 query in Power Query Editor.

Answer:

- C. Enable high-density sampling on the scatter plot.

Solution Explanation:

- High-density sampling improves data representation by optimizing overlapping points and selecting representative data points, ensuring clarity without distorting accuracy.

- Since **Data1 contains 10 million rows**, displaying all data **in a scatter plot would be inefficient and cluttered**.
- **High-density sampling helps visualize trends** by **sampling the data optimally** while **maintaining its integrity**.
- **It enhances performance** and **improves pattern recognition**, making it **easier to analyze the data effectively**.

### Why Other Options Are Incorrect?

- ✗ A. Add a count field of the transaction amount to the size bucket – This **alters the visualization** but does **not solve the problem of overlapping points**.
- ✗ B. Add a trend line to the scatter plot – A trend line shows a general direction but does **not improve visualization of dense data points**.
- ✗ D. Apply a row filter to the Data1 query in Power Query Editor – **Filtering data reduces accuracy** and **removes valid points, affecting all visuals** in the report.

### Question 193:

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

- Item
- 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.

#### 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:**

- Box 1: A scatter plot of Quantity Ordered and Unit Price by item**
- Box 2: Automatically find clusters**

**Solution Explanation:**

**Why Scatter Plot?**

- A scatter plot is the best visual to **analyze relationships between two numerical values** (Quantity Ordered & Unit Price).
- It plots data points on an X-Y axis, allowing you to see **patterns, trends, clusters, and outliers**.
- It is useful for **detecting correlations** (e.g., whether higher prices lead to fewer orders).

**Why Automatically Find Clusters?**

- Power BI's **Clustering feature** in scatter plots helps **identify groups** based on data similarity.
- It uses **unsupervised machine learning** (like K-Means) to automatically detect patterns without manual intervention.
- Clustering helps in **segmenting items with similar purchase behaviors** and **finding trends** in sales data.

**Question 194:**

You have a **Power BI workspace** named **Inventory**, which contains:

- A dataset**
- A report**
- A dashboard**

You need to **add an additional tile** to the **dashboard** to show **inventory by location**. This information is **NOT visualized in the report**, and the solution must **minimize the impact on the report**.

**Options:**

- A. Ask a question by using Q&A.
- B. Hide the report page.
- C. Pin the visual to the dashboard.
- D. Use quick insights on the dashboard.
- E. Add the visual to the report.

**Answer:**

- A. Ask a question by using Q&A.
- C. Pin the visual to the dashboard.

**Solution Explanation:**

- Since **inventory by location** is **not visualized in the report**, creating a new visual **within the report** would **impact the report**, which we want to avoid.
- Power BI Q&A lets you **ask questions using natural language** and **generates visuals dynamically** from the dataset **without modifying the report**.
- Once the Q&A visual is created, you can pin it to the dashboard, ensuring the required insight is displayed **without changing the report structure**.
- This approach **minimizes impact** while still adding the required **inventory by location tile** to the dashboard.

**Why Other Options Are Incorrect?**

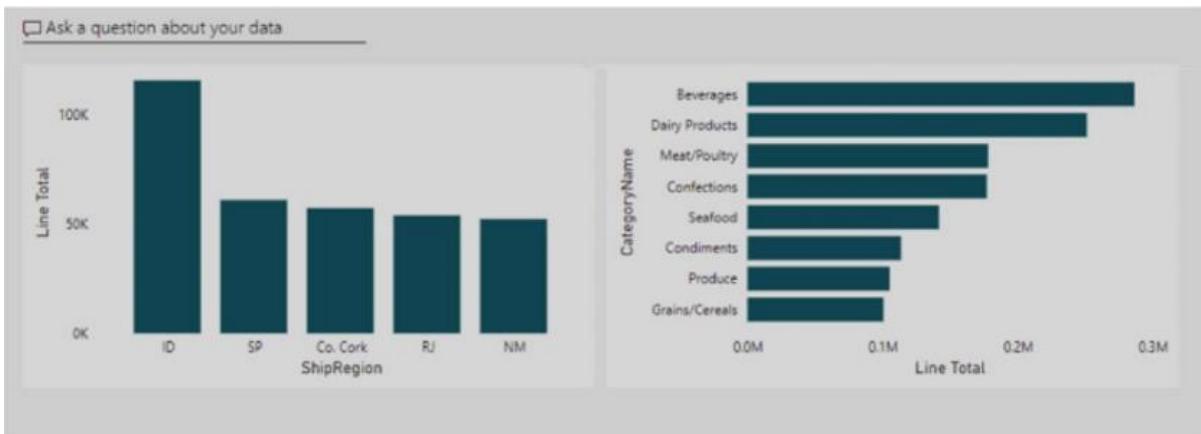
- B. Hide the report page – Hiding a report page **does not create a new visual** or help add the required tile to the dashboard.
- D. Use quick insights on the dashboard – Quick insights **generate automatic AI-driven insights** but **do not allow customization** for specific **inventory by location** visualization.
- E. Add the visual to the report – This would **modify the report**, which contradicts the requirement to **minimize the impact on the report**.

### Question 195:

You have the dashboard shown in the following exhibit.



You need to modify the dashboard to display as shown in the following exhibit.



What should you do?

- A. Create and apply a custom dashboard theme.
- B. Change the colors of the visuals in the report.
- C. Apply the Dark dashboard theme.
- D. Upload a snapshot image of the dashboard.

**Answer:**

- A. Create and apply a custom dashboard theme.

## Question 196:

### Question:

You have a Power BI report with three pages: **Page1, Page2, and Page3**. Each page has the same slicers.

You need to ensure that **filters applied on Page1 also apply to Page3 but NOT to Page2**.

### Options:

- A. On each page, modify the interactions of the slicer.
- B. Enable visibility of the slicers on Page1 and Page3. Disable visibility of the slicer on Page2.
- C. Sync the slicers on Page1 and Page3.

### Answer:

- C. Sync the slicers on Page1 and Page3.

### Solution Explanation:

#### Why Syncing Slicers (Option C) is Correct?

- **Power BI's "Sync slicers" feature** allows you to apply a slicer's filter across multiple pages selectively.
- You can **sync the slicers only on Page1 and Page3**, ensuring the same filters apply to both pages while keeping Page2 independent.
- This method **does not require modifying visuals or interactions manually** on each page, making it more efficient.

#### Why Other Options Are Incorrect?

A. Modify interactions of the slicer:

- Slicer interactions **control how visuals respond to a slicer but do not sync slicers across pages**.
- This would require manually adjusting interactions for every visual on every page.

B. Enable/Disable visibility of slicers:

- **Visibility only hides slicers**; it does NOT control the filtering behavior across pages.
- Filters will still apply across all pages unless slicer syncing is configured.

### Key Benefits of Using Sync Slicers:

- Ensures filtering consistency between Page1 and Page3.
- Keeps Page2 unaffected, preventing unnecessary filtering.
- More efficient than manually adjusting interactions on each page.

### Question 197:

You have a **Power BI report** with **five pages**:

- **Pages 1 to 4 are visible.**
- **Page 5 is hidden.**

You need to enable users to quickly **navigate from Page 1 to all other visible pages** while **minimizing development and maintenance effort** as new pages are added.

**Options:**

- Add a **blank button** to Page 1.
- Add a **page navigation button** to Page 1.
- Create a **bookmark** for each page.
- Add a **bookmark navigation button** to Page 1.

**Answer:**

D. Add a **bookmark navigation button** to Page 1.

**Solution Explanation:**

**Why Option D (Bookmark Navigation Button) is Correct?**

- **Bookmark navigation buttons automatically list all bookmarks** in the report, allowing users to switch between pages easily.
- As **new pages are added**, they **can be included in bookmarks** without manually updating buttons.
- This minimizes **development and maintenance effort** while ensuring easy navigation.
- **Hidden pages** (like Page 5) will not appear unless explicitly included in a bookmark.

**Why Other Options Are Incorrect?**

A. Add a **blank button** to Page 1

- A blank button **does nothing by itself**.
- You would need to manually configure navigation for each page, increasing maintenance effort.

B. Add a **page navigation button** to Page 1

- **Page navigation buttons are static** and must be manually created for each page.
- If new pages are added, you must **update the navigation buttons manually**.

### C. Create a bookmark for each page

- **Bookmarks require manual creation and management.**
- You would need **separate buttons for each page**, increasing development and maintenance effort.

#### **Key Benefits of Using Bookmark Navigation Buttons:**

- Automatically displays all bookmarks** for easy navigation.
- No need to manually update buttons** when new pages are added.
- Hidden pages remain hidden unless explicitly included** in bookmarks.
- Saves development and maintenance time** compared to manually adding navigation buttons.

### **Question 198:**

You build a **Power BI report** that displays **IoT temperature data** streaming from a **refrigerator**.

After **publishing the report to the Power BI service**, you need to be **notified when the temperature rises above 4°C**.

#### **Options:**

- A. Set an **alert** on a **KPI visual** in the report.
- B. Pin a card visual to a **dashboard** and **create a subscription**.
- C. Pin a card visual to a **dashboard** and **set an alert on the tile**.
- D. Pin a report page to a **dashboard** and **set an alert on the page**.

#### **Answer:**

- C. Pin a card visual to a dashboard and set an alert on the tile.**

#### **Solution Explanation:**

**Why Option C (Pin a card visual to a dashboard and set an alert on the tile) is Correct?**

- **Power BI alerts only work on dashboard tiles, not on reports.**
- To trigger an **alert**, you must **pin a visual (like a Card visual)** to a **dashboard** and then **set a threshold alert** (e.g.,  $\text{temperature} > 4^\circ\text{C}$ ).
- When the temperature **exceeds 4°C**, Power BI **sends a notification automatically**.
- **Card visuals** are ideal because they display **single numerical values**, making them perfect for threshold-based alerts.

### Why Other Options Are Incorrect?

**X A. Set an alert on a KPI visual in the report**

- Alerts cannot be set on report visuals; they only work on **dashboard tiles**.

**X B. Pin a card visual to a dashboard and create a subscription**

- Subscriptions send emails at scheduled times (e.g., daily, hourly), but they do not provide **real-time alerts** based on data thresholds.

**X D. Pin a report page to a dashboard and set an alert on the page**

- Alerts cannot be set on an entire report page, only on **individual visuals pinned to a dashboard**.

### Key Benefits of Using Dashboard Tile Alerts:

- Real-time notifications** when the threshold (4°C) is exceeded.
- Works with streaming datasets** for IoT data.
- Customizable alert conditions** and frequency.
- Can trigger Power Automate flows** for advanced actions.

 **Reference:** [Set Alerts in Power BI](#)

### Question 199:

You need to create a **Power BI theme** for multiple reports, including **corporate branding** for:

- Font size**
- Color**
- Bar chart formatting**

Which method should you use?

#### OPTION

- From Power BI Desktop, customize the current theme.
- From Power BI Desktop, use a built-in report theme.
- Create a theme as a PBIVIZ file and import the theme into Power BI Desktop.
- Create a theme as a JSON file and import the theme into Power BI Desktop.

**Correct Answer:**

**D. Create a theme as a JSON file and import the theme into Power BI Desktop.**

**Explanation:**

A **Power BI theme** is a reusable **JSON file** that defines **styling settings** (e.g., colors, fonts, visuals).

- A **JSON theme file** allows customization of:
  - Font size & type**
  - Colors** (corporate branding)
  - Bar chart formatting** (axes, labels, styles)
  - Other visual properties** (tables, slicers, etc.)
- Once created, the **JSON theme file** can be **imported** into **Power BI Desktop** and applied across multiple reports.

**Why Other Options Are Incorrect?**

**A. From Power BI Desktop, customize the current theme**

- **Customizing a theme** applies only to the **current report** and cannot be reused **across multiple reports** unless exported as JSON.

**B. From Power BI Desktop, use a built-in report theme**

- **Built-in themes** are limited to **predefined styles** and do not support **custom branding** (specific fonts, colors, bar chart settings).

**C. Create a theme as a PBIVIZ file and import it into Power BI Desktop**

- **PBIVIZ files** are for **custom visuals**, not **themes**.

**How to Create & Apply a JSON Theme in Power BI:**

- 1 Open **Power BI Desktop**.
- 2 Go to **View → Themes → Browse for Themes**.
- 3 **Create a JSON file** with custom properties (e.g., fonts, colors, bar charts).
- 4 **Import the JSON file** into Power BI Desktop.
- 5 Apply the theme to **multiple reports**.

### Question 200:

You have a **Power BI report** with:

- One page**
- Two line charts & one bar chart**

Users need the ability to:

- ◆ **Switch measures** in the visuals
- ◆ **Change the visualization type**
- ◆ **Add a legend**

The solution should **minimize development effort**.

#### OPTION

- A. Create a bookmark for each acceptable combination of visualization type, measure, and legend in the bar chart.
- B. Edit the interactions between the three visuals.
- C. Enable personalization for the report.
- D. Enable personalization for each visual.

**Correct Answer:**

- C. Enable personalization for the report.**

**Explanation:**

- ◆ **Report personalization** allows users to modify visuals **without developer intervention**.
- ◆ Users can:
  - Switch measures** dynamically.
  - Change visualization types** (e.g., line chart → bar chart).
  - Add a legend** to visuals.
- ◆ This approach **minimizes development effort**, as users can customize visuals directly in **Power BI Service**.

**Why Other Options Are Incorrect?**

**X A. Create a bookmark for each combination**

- Bookmarks **require pre-configured settings**, which is **manual & time-consuming**.
- Users **cannot switch measures dynamically**.

**X B. Edit the interactions between the visuals**

- **Interactions** control how visuals **respond** to selections but **do not allow users to switch measures or change chart types**.

#### ✖ D. Enable personalization for each visual

- **Personalization must be enabled at the report level** for users to modify all visuals.

### Question 201:

You have a Power BI report that contains a table visual with a measure named Revenue. The Revenue measure returns values within a range of 0 to 5.

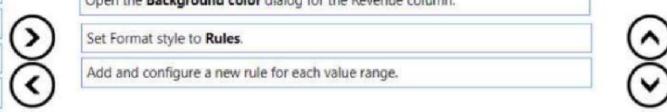
You need to format the visual so that the Revenue column displays a specific background color based on the value range shown in the following table.

| Range                                      | Background color |
|--|------------------|
| Values equal to zero                       | #FFFFFF          |
| Values above 0 and less than or equal to 2 | #FFC000          |
| Values above 2 and less than or equal to 3 | #E2EFDA          |
| Values above 3 and less than or equal to 4 | #A9D062          |
| Values above 4                             | #00B050          |

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

### Answer:

| Actions   | Answer Area   |
|---|---|
| Set Format style to <b>Rules</b> .                              | Open the <b>Background color</b> dialog for the Revenue column. |
| Add and configure a new rule for each value range.              | Set Format style to <b>Rules</b> .                              |
| Set Format style to <b>Field value</b> .                        | Add and configure a new rule for each value range.              |
| Open the <b>Background color</b> dialog for the Revenue column. |   |
| Open the <b>Font color</b> dialog for the Revenue column.       |   |



## Question 202:

### Question Summary:

- **You have:**
  - A clustered bar chart
  - Salary as a measure (numerical, USD)
  - Employee as the axis
- **Goal:** Show which employees earn **above the median salary** using a **reference line**.
- **Proposed Solution:** Create a **median line using the Salary measure**.

### Correct Answer:

A. Yes

### Explanation:

- ✓ Power BI allows you to add a reference line based on a measure.
- ✓ The Median line calculates the middle value of the Salary distribution.
- ✓ A reference line for the median helps visualize which employees earn above or below the median salary.

#### ◆ Steps to add a median line in Power BI:

- 1 Click on the Clustered Bar Chart.
- 2 Go to Analytics pane (right panel).
- 3 Select Median Line → Click Add.
- 4 Set the Salary measure as the calculation field.
- 5 Customize formatting (line style, color, label, etc.).

### Why is this correct?

- ✓ The median line automatically divides employees into above-median & below-median salary groups.
- ✓ No extra calculations or transformations are needed.

### Question 203:

- **You have:** A Power BI report with **4 pages**.
- **All pages have a slicer for "Country".**
- **Goal:**
  - ✓ When a user selects a **country on Page 1**, the selection must be retained on **Page 2 and Page 3**.
  - ✓ **Page 4 should not be affected.**
- **Solution needed:** Ensure country selection **syncs across specific pages but not all pages.**

**Correct Answer:**

- ✓ D. Sync the Country slicer on Page 1, Page 2, and Page 3.

**Explanation:**

- ✓ Power BI allows slicer synchronization across specific pages using the **Sync Slicers feature**.
- ✓ Syncing the Country slicer on Page 1, Page 2, and Page 3 ensures selection persists across these pages without affecting Page 4.

◆ **How to do it:**

- 1 Select the **Country slicer** on Page 1.
- 2 Go to the **View tab** → Click **Sync slicers**.
- 3 In the **Sync Slicers pane**, check **Page 1, Page 2, and Page 3**.
- 4 Ensure **Page 4 remains unchecked** to prevent it from syncing.
- 5 (Optional) Decide whether to make the slicer **visible** or **hidden** on synced pages.

**Why Other Options Are Incorrect?**

- ✗ A. **Page-level filters** affect only a **single page**, so it won't sync across pages.
- ✗ B. **Report-level filters** apply to **all pages**, including Page 4 (which must not be affected).
- ✗ C. **Moving the slicers to Page 1** does not solve the issue—users still need slicers on Page 2 and 3.

## Question 204:

You use Power BI Desktop to create a Power BI data model and a blank report.

You need to add the Word Cloud visual shown in the following exhibit to the report.

## Defect Descriptions



The solution must minimize development effort.

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.

## **Answer:**

| Actions  | Answer Area  |
|--|--|
| From a web browser, download the PBIVIZ file for the Word Cloud visual from Microsoft AppSource. | From Power BI Desktop, get the Word Cloud visual from Microsoft AppSource. |
| Format the data colors and title.  | Populate the Category, Value, and Excludes fields.                         |
| From Power BI Desktop, get the Word Cloud visual from Microsoft AppSource.                       | Format the data colors and title.  |
| Populate the drillthrough fields.  |  |
| Populate the Category, Value, and Excludes fields.   |  |

## Question 205:

### Question:

You plan to use Power BI to create sales invoices for customers. The solution must meet the following requirements:

- Sales invoices must be exported in a PDF format.
- The PDF exports must show all columns and rows clearly.

What should you create?

### Options:

- A. A paginated report that contains a tablix
- B. A dashboard that contains a table
- C. An interactive report that contains a table
- D. An interactive report that contains a matrix

### Answer:

- A. A paginated report that contains a tablix

### Solution Explanation

Paginated reports are designed for precise **printing and exporting**, ensuring that all columns and rows are fully visible in a **fixed layout**. The **tablix** allows for structured formatting, making it perfect for **invoices**. Unlike interactive reports, paginated reports can handle **large datasets** without truncation when exporting to **PDF, Word, or Excel**. They support **page breaks, headers, and footers**, maintaining a professional format. This makes them the **best choice** for invoice generation in Power BI.

### Why Other Options Are Incorrect?

- ✗ B. Dashboard with a table – Dashboards are **meant for visualization**, not for detailed report exports.
- ✗ C. Interactive report with a table – Interactive reports **truncate data** when exported, **losing important invoice details**.
- ✗ D. Interactive report with a matrix – While matrices summarize data well, they **collapse columns and rows**, which is **not ideal for invoices**.

### Question 206:

You have a Power BI report that contains five bookmarks.

You need to add an object to the report from which users can navigate between three specific bookmarks.

How should you complete the task? To answer, drag the appropriate actions to the correct steps. Each action 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.

### Answer:

| Actions                                      | Answer Area  |
|--|--|
| Add a Bookmark button.                       | First step: Add a Bookmark navigator button.             |
| Change the Bookmark property for the button. | Second step: Group the three bookmarks.                  |
| Group the other two bookmarks.               |  |
| Group the three bookmarks.                   | Third step: Change the Bookmark property for the button. |

### Question 207:

You have a Power BI report that contains three pages. The pages are used to analyze sales across various countries.

You add a slicer named Country to each page of the report.

You need to configure the report to meet the following requirements:

- When a user selects a country on the first page, the report must filter the other pages.
- The second and third pages must display only the filtered results.

Which task should you perform for each requirement? To answer, drag the appropriate task to the correct requirement. Each task 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.

**Answer:**

| Tasks   | Answer Area  |
|---|--|
| Add the Country field to the filters on all the pages                   | When a user selects a country on the first page, the report must filter the other pages: |
| Configure the Country slicer to sync across all the pages               | Configure the Country slicer to sync across all the pages                                |
| Configure the Country slicer to sync only on the second and third pages | The second and third pages must display only the filtered results:                       |
| Hide the Country slicer on the second and third pages                   | Hide the Country slicer on the second and third pages                                    |

**Question 208:**

**Question:**

You have a Power BI report that contains a page. The page contains the following:

- A shape named **Shape1**
- A card named **Sales Summary**
- A clustered bar chart named **Sales by Region**

You need to ensure that **Sales Summary** renders on top of **Shape1**.

What should you modify?

**Options:**

- A. Tab order in the Selection pane
- B. Layer order in the Selection pane
- C. Maintain layer order in the General visual settings
- D. Vertical alignment in the Canvas settings

**Answer:**

- B. Layer order in the Selection pane

**Solution Explanation**

Power BI's **Selection pane** allows users to manage the **layer order** of visuals, similar to how layers work in design tools. Since **Shape1** is currently covering **Sales Summary**, adjusting the

**layer order** ensures that Sales Summary appears **above the shape**. You can use the "**Bring Forward**" or "**Send Backward**" options to rearrange layers.

### Why Other Options Are Incorrect?

- X A. Tab order in the Selection pane** – This controls the **navigation order** when using **keyboard shortcuts**, not visual layering.
- X C. Maintain layer order in General settings** – This setting ensures that **visuals maintain their order** during interactions but **does not change layer placement**.
- X D. Vertical alignment in Canvas settings** – This affects the **positioning** of visuals within the **page layout**, not **which visual appears on top**.

### Question 209:

You have a Power BI report named **Report1** and a dashboard named **Dashboard1**.

**Report1** contains a line chart named **Sales by month**.

You pin the **Sales by month** visual to **Dashboard1**.

Later, in **Report1**, you change the **Sales by month** visual from a line chart to a bar chart.

You need to ensure that the **bar chart displays on Dashboard1**.

What should you do?

#### Options:

- A. Refresh the dataset used by Report1 and Dashboard1.**
- B. Pin the Sales by month bar chart to Dashboard1.**
- C. Select Refresh visuals for Dashboard1.**
- D. Edit the details for the dashboard tile of Dashboard1.**

#### Answer:

- B. Pin the Sales by month bar chart to Dashboard1.**

#### Solution Explanation

When you pin a **visual** from a Power BI **report** to a **dashboard**, it creates a **static snapshot** of the visual at that moment.

If you **change** the original visual in the report (e.g., from a **line chart** to a **bar chart**), the pinned visual on the **dashboard does not update automatically**.

To reflect the **new bar chart**, you must **re-pin** the updated visual to **Dashboard1** and optionally remove the old tile.

### Why Other Options Are Incorrect?

- X A. Refresh the dataset used by Report1 and Dashboard1** – Refreshing the dataset updates **data**, not the **visual type**.
- X C. Select Refresh visuals for Dashboard1** – This only **updates data** within existing visuals but does not change their **type**.
- X D. Edit the details for the dashboard tile of Dashboard1** – This allows you to **rename or resize** the tile but does **not change the visual type**.

### Question 210:

You need to use AI insights to add a column of enhanced data based on the customer feedback. The solution must identify the following:

- What the customers most often provide feedback about
- Whether the customers like your company's product
- The language of the feedback

Which AI insights service should you use for each output? To answer, drag the appropriate services to the correct outputs. Each service 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.

| AI Insights services  | Answer Area   |
|-----------------------|---|
| Image Tagging         | What the customers most often provide feedback about: |
| Key Phrase Extraction | Whether the customers like your company's product:    |
| Language Detection    | The language of the feedback:                         |
| Sentiment Analysis    |   |

**Answer:**

**Answer Area**

What the customers most often provide feedback about:

Key Phrase Extraction

Whether the customers like your company's product:

Sentiment Analysis

The language of the feedback:

Language Detection

- A. Key Phrase Extraction
- B. Sentiment Analysis
- C. Language Detection

## Question 211:

### Question:

In **Power BI Desktop**, you are creating a report that will contain **three pages**.

You need to create a **custom tooltip page** and prepare it for use.

Which **three** actions should you perform?

### Options:

- A. For the tooltip page, set Allow use as tooltip to On.
- B. For the target page, set Allow use as tooltip to On.
- C. Configure filters on the target visual.
- D. For the tooltip page, configure filters.
- E. Add and configure visuals on the tooltip page.

### Answer:

- A. For the tooltip page, set Allow use as tooltip to On.
- D. For the tooltip page, configure filters.
- E. Add and configure visuals on the tooltip page.

### Solution Explanation

In Power BI, a **custom tooltip page** is a separate report page designed to show additional details when a user hovers over a visual.

- 1 **Enable tooltip functionality** – You must set "Allow use as tooltip" to **On** for the **tooltip page** (Option A).
- 2 **Design the tooltip page** – You need to **add and configure** relevant **visuals** that will appear as tooltips (Option E).
- 3 **Apply relevant filters** – Filters on the **tooltip page** ensure that the tooltip displays **context-specific data** (Option D).

### Why Other Options Are Incorrect?

- B. For the target page, set Allow use as tooltip to On – This option does not exist; only the **tooltip page** needs this setting.
- C. Configure filters on the target visual – Filters on the **target visual** are not required for setting up a tooltip page; filtering should be done **on the tooltip page itself**.

### Question 212:

You need to create a visual that compares profit across 10 product categories for a selected quarter.

What is the best visual to use to achieve the goal?

- A. an area chart
- B. a funnel chart
- C. a clustered bar chart
- D. a line chart

**Answer:**

- C. a clustered bar chart

### Question 213:

You have a **Power BI report** named **ReportA**.

Your **Power BI tenant** allows users to **export data**.

You need to ensure that consumers of **ReportA cannot export any data from visuals**.

Which **two** actions should you perform?

**Options:**

- A. From Power BI Desktop, modify the Report settings.
- B. From Power BI Desktop, modify the Data Load settings.
- C. From the Power BI service, modify the dataset permissions.
- D. From the Power BI service, modify the Report settings.

**Answer:**

- A. From Power BI Desktop, modify the Report settings.  
 D. From the Power BI service, modify the Report settings.

### Solution Explanation

To prevent users from exporting data from **ReportA**, you must disable the export option in both Power BI Desktop and the Power BI Service:

- 1 **Modify Report Settings in Power BI Desktop (Option A)** – You can **disable data export** under File > Options and Settings > Options > Report Settings before publishing the report.
- 2 **Modify Report Settings in the Power BI Service (Option D)** – After publishing, you can go to Settings > Report settings and **disable export data** for that report.

### Why Other Options Are Incorrect?

- B. Modify the Data Load settings** – This controls how data is **imported** into Power BI but does **not** affect export settings.
- C. Modify dataset permissions** – Changing **dataset permissions** affects **access** but does **not** restrict exporting data from visuals.

### Question 214:

You have a **Power BI report** that will be **rendered on a vertical display**.

You need to **maximize the portion of the screen area** used by the report.

#### Options:

- A. From the Canvas background setting of Power BI Desktop, configure the Image fit setting.
- B. From the Canvas settings of Power BI Desktop, set a custom width and height.
- C. From Power BI Desktop, select Personalize visuals.
- D. From the Power BI service, enable the Pages pane.

#### Answer:

- B. From the Canvas settings of Power BI Desktop, set a custom width and height.

### Solution Explanation (7-8 lines):

To optimize the report for a **vertical display**, you need to **customize the page size** to fit the screen properly:

1 **Canvas settings** in **Power BI Desktop** allow you to set a **custom width and height** (e.g., for mobile or portrait screens).

2 This ensures that visuals are well-aligned and **fully utilize the screen space** without unnecessary white space.

3 You can access this by **going to Format Pane > Page Size > Custom** and adjusting dimensions accordingly.

### Why Other Options Are Incorrect?

**X A. Configure the Image fit setting** – This only adjusts how a **background image** fits within the report but does not affect the layout of visuals.

**X C. Select Personalize visuals** – This allows users to **customize visuals**, but it does not optimize the screen space for vertical display.

**X D. Enable the Pages pane** – This just **shows or hides the report pages list** and does not impact layout optimization.

### Question 215:

You have a **Power BI dataset** named **Finance** that is hosted in a **Power BI workspace**.

The **finance team** at your company is **NOT currently a member of any Power BI workspace roles**.

You need to enable the finance team to use **Microsoft Excel** to analyze the **Finance dataset**.

#### Options:

- A. **Grant the finance team build permissions to the Finance dataset.**
- B. **Provide an Excel workbook that is connected to the Finance dataset.**
- C. **Create a row-level security (RLS) role and add the finance team to the role as members.**
- D. **Grant the finance team write permissions to the Finance dataset.**

#### Answer:

- A. Grant the finance team build permissions to the Finance dataset.**

#### Solution Explanation

To analyze a Power BI dataset in **Microsoft Excel**, users need **build permissions** on the dataset.

1 **Build permissions** allow users to **connect Excel to the Power BI dataset** and create PivotTables or reports.

2 Users with this permission can access the dataset via “Analyze in Excel” in the **Power BI Service**.

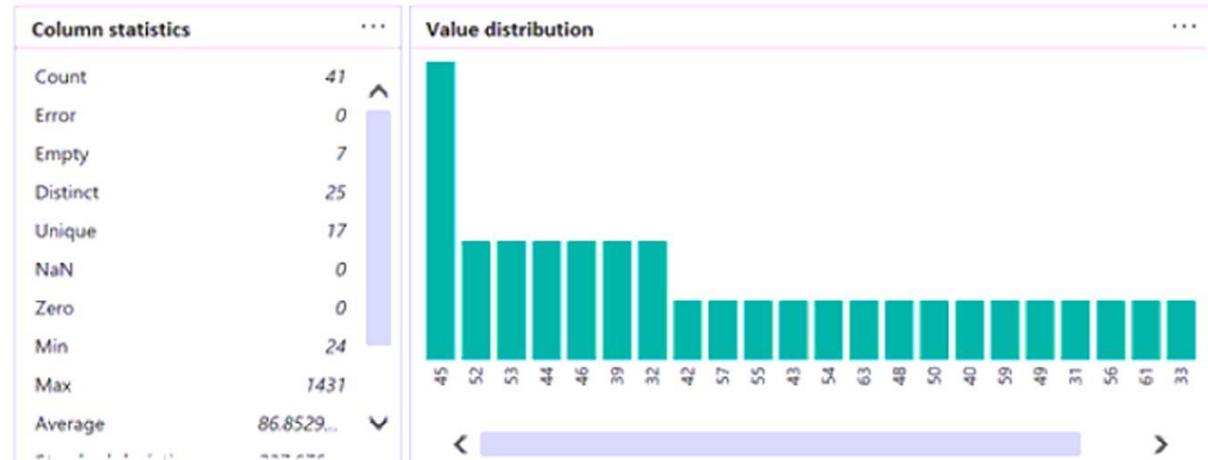
3 This approach ensures **security and controlled access** without making them workspace members.

### Why Other Options Are Incorrect?

- ✗ **B. Provide an Excel workbook connected to the dataset** – This does not grant **direct access** to analyze live Power BI data in Excel.
- ✗ **C. Create an RLS role – Row-Level Security (RLS)** restricts access but does not grant the ability to analyze the dataset in Excel.
- ✗ **D. Grant write permissions – Write permissions** allow dataset **modifications**, which is unnecessary for analyzing data in Excel.

### Question 216:

You are using Power Query Editor to preview the data in a column named Max Temp. The column statistics and value distribution are 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.

### Answer Area

The value that occurs most frequently in the column is [answer choice].

|      |
|------|
| 25   |
| 41   |
| 45   |
| 1431 |

The smallest non-NULL value in the column is [answer choice].

|    |
|----|
| 0  |
| 17 |
| 24 |
| 33 |

### Answer:

- A. 45
- B. 24

### Question 217:

You have a **Power BI report** that contains a **visual**. The visual contains a **measure**.

You need to ensure that the report meets the following requirements:

- ✓ All values must be set to two decimal places.
- ✓ All negative values must be displayed in red font and parentheses.

### Options:

- A. For the visual, apply conditional formatting to the background color.
- B. Configure the measure to use a custom format.
- C. For the visual, apply conditional formatting to the font color.
- D. For the visual, set Value decimal places to 2.

### Answer:

- B. Configure the measure to use a custom format.
- C. For the visual, apply conditional formatting to the font color.

### Solution Explanation

- 1 To ensure all values display **two decimal places**, you can **configure the measure with a custom format** (#,##0.00;(#,##0.00)).
- 2 To display **negative values in red and within parentheses**, apply **conditional formatting** to the **font color** in the visual settings.
- 3 **Conditional formatting** allows setting **rules** to highlight negative numbers in **red**, making them easier to distinguish.
- 4 This approach ensures both decimal precision and clear representation of negative values.

### Why Other Options Are Incorrect?

- A. **Apply conditional formatting to the background color** – This only changes the background, not the font color for negative values.
- D. **Set Value decimal places to 2** – This ensures decimal places but does not format **negative values in red or parentheses**.

### Question 218:

You have a Power BI report that contains a page. The page contains the following visuals:

- A card
- A matrix
- A bar chart

You need to configure the page to ensure that the card and the bar chart are unaffected when a user drills down in the matrix. The card and the bar chart must change when a user selects a cell in the matrix.

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

#### Answer Area

Visual type:

Bar chart  
Card  
Matrix

Set:

Edit Interactions to Filter  
Edit Interactions to None  
Apply drill down filters to Selected visual

#### Answer:

- A. Matrix
- B. Apply drill down filters to Selected Visual

### Question 219:

You have a **Power BI model** that contains two tables: **Population** and **Date**.

- The **Population table** contains:
  - ✓ PopulationAmount (population values)
  - ✓ DateKey (first day of each year, related to the Date table)
- The **Date table** contains a **many-to-one relationship** with Population[DateKey].
- The model contains two measures:
- **Total Population = SUM('Population'[PopulationAmount])**
- **2023 Population = CALCULATE([Total Population], 'Date'[Year] = 2023)**
- You create a **table visual** with Date[Year] and [2023 Population].

#### Options:

- A. One row per year that contains blank values for every year except 2023
- B. One row per date that contains the population value for the corresponding year repeated in each row
- C. A single row for the year 2023 that contains the related population value
- D. One row per year that contains the same value repeated for each year

#### Answer:

- A. One row per year that contains blank values for every year except 2023

#### Solution Explanation (7-8 lines):

- 1 The **2023 Population measure** uses **CALCULATE([Total Population], 'Date'[Year] = 2023)**, meaning it **filters only the year 2023**.
- 2 Since the table visual includes **Date[Year]**, Power BI **evaluates the measure for each year**.
- 3 For **years other than 2023**, the measure has no relevant population data, so it returns **blank values**.
- 4 Only the **row corresponding to 2023** will display the **population value** for that year.

#### Why Other Options Are Incorrect?

- B. One row per date with the population repeated – The visual groups by Year, not individual dates.
- C. A single row for 2023 – The table visual includes Date[Year], so all years will be listed.
- D. One row per year with the same value repeated – The measure filters **only 2023**, so other years will be blank.

### Question 220:

You have a **Power BI dataset** that contains **quarterly sales performance data**.

You need to enable **managers** to review the data in a format that meets the following requirements:

- ✓ **Optimized for printing**
- ✓ **Renders data in Excel, Word, PowerPoint, and PDF formats**

#### Options:

- A. A template app
- B. A dashboard
- C. A paginated report
- D. An interactive report

#### Answer:

- C. A paginated report

#### Solution Explanation

1 **Paginated reports** in Power BI are **designed for printing** and can display data **across multiple pages**.

2 They **support exporting to Excel, Word, PowerPoint, and PDF**, meeting all format requirements.

3 Unlike **interactive reports**, paginated reports provide **fixed-layout tables** suitable for structured data like **quarterly sales**.

4 Managers can **view, print, and export** the data without layout distortions.

5 Power BI **Report Builder** is used to create **paginated reports** with a **tabular structure**.

#### Why Other Options Are Incorrect?

✗ **A. Template App** – Used to **distribute pre-built dashboards and reports** but does not ensure print-optimized layouts.

✗ **B. Dashboard** – Dashboards **do not support printing/exporting to Excel, Word, or PDF** in a structured format.

✗ **D. Interactive Report** – These are **best for on-screen analysis**, but they **do not ensure print-friendly layouts**.

### Question 221:

You have a Power BI report that contains the visuals shown in the following table.

| Type                   | Horizontal coordinate | Vertical coordinate |
|------------------------|-----------------------|---------------------|
| Table                  | 300                   | 200                 |
| Clustered column chart | 700                   | 200                 |
| Slicer                 | 20                    | 100                 |

You need to modify the location of each visual.

What should you modify for each visual?

- A. the layer order
- B. the padding
- C. the position
- D. the tab order

**Answer:**

C. THE POSITION

**Explanation:**

The position refers to the horizontal and vertical coordinates of each visual in Power BI. In this case, to modify the location of each visual, you need to adjust its position by changing the horizontal and vertical coordinates provided (such as 300, 700 for the Clustered column chart).

### Question 222:

You plan to use Power BI to create a quarterly profit report that meets the following requirements:

- Emphasizes the percentage of total profits contributed by each product category in dollars and as a percentage

- Compares profit margins across sales regions

Which type of visual should you use for each requirement? To answer, drag the appropriate visuals to the correct requirements. Each visual 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.

| Visuals           | Answer Area  |
|-------------------|--|
| Area chart        | Emphasizes the percentage of total profits contributed by each product category: |
| Funnel chart      |  |
| Multi-row card    |  |
| Pie chart         | Compares profit margins across sales regions:                                    |
| Stacked bar chart |  |

**Answer:**

- A. Pie Chart.
- B. Stacked Bar Chart.

### Question 223:

You have a **Power BI report** that contains a **line chart** displaying **sales data for several regions**.

You need to add an element to the report that will enable users to **filter the sales data** to include **only a selected region**.

**Options:**

- A. A slicer visual
- B. A drillthrough filter
- C. A table visual
- D. A card visual
- E. A Key Performance Indicator (KPI) visual

**Answer:**

- A. A slicer visual
- B. A drillthrough filter

**Solution Explanation**

- 1 **Slicer Visual – Best choice for filtering** because users can **select a region** from a dropdown or list, instantly updating the line chart.
- 2 **Drillthrough Filter** – Allows users to **right-click on a region**, navigate to a **detailed page**, and view filtered data only for that region.
- 3 Both **slicers and drillthrough filters** provide **interactive filtering**, making them suitable for selecting a specific region.
- 4 **Slicers are easier to use** for quick selection, while **drillthrough filters** provide **detailed insights on a separate page**.

**Why Other Options Are Incorrect?**

- C. **Table Visual** – Displays **data** but does **not filter the chart** directly.
- D. **Card Visual** – Shows a **single value** (e.g., total sales) but **cannot filter** the report.
- E. **KPI Visual** – Displays **performance metrics** but does **not allow filtering** of regions.

**Question 224:**

**Question:**

You have the CSV file shown in the following table.

You use Power Query Editor to preview the data in the file.

| Month    | 2021 | 2022 |
|----------|------|------|
| January  | 1000 | 2500 |
| February | 4000 | 5000 |
| March    | 2800 | 3400 |

You need to transform the data to meet the following requirements:

- The first column must contain the **month**.
- The second column must contain the **year**.
- The third column must contain the **order amount** for the month and year.

**Options:**

- A. Remove
- B. Unpivot
- C. Transpose
- D. Pivot

**Answer:**

**B. Unpivot**

**Explanation:**

- **Unpivoting** takes **column headers** (which likely represent years) and converts them into **rows** with a new column (year).
- This will restructure the dataset so that each row contains a **month, year, and order amount**, fulfilling the given requirement.

**Why Other Options Are Incorrect:**

- A. Remove** – Removing columns will delete important data instead of restructuring it.
- C. Transpose** – Transposing switches **rows to columns and vice versa**, which is not needed here.
- D. Pivot** – Pivoting aggregates data, but we need to **reshape it**, not summarize it.

Thus, **Unpivoting** is the best transformation to achieve the required format. 

### Question 225:

You are creating a Power BI single-page report.

Some users will navigate the report by using a **keyboard**, and some users will navigate the report by using a **screen reader**.

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

**Options:**

- A. The **layer order**
- B. The **X position**
- C. The **bookmark order**
- D. The **tab order**

**Answer:**

**D. The tab order**

**Explanation:**

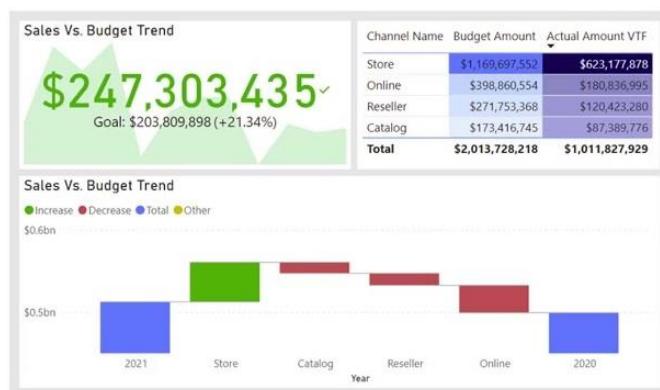
- **Tab order** controls the sequence in which users navigate through visuals using the **Tab key** (for keyboard users) or a **screen reader** (for visually impaired users).
- Setting a proper tab order ensures that the content flows in a **logical reading sequence**, improving accessibility.

**Why Other Options Are Incorrect:**

- ✖ **A. Layer order** – Determines the **stacking order** of visuals (front or back) but does not affect navigation.
- ✖ **B. X position** – Only changes the **horizontal position** of visuals but does not impact the reading order.
- ✖ **C. Bookmark order** – Bookmarks store **view states** but do not affect navigation order.

### Question 226:

You are configuring a Power BI report for accessibility as shown in the following table.



You need to change the default colors of all three visuals to make the report more accessible to users who have color vision deficiency.

Which two settings should you configure in the Customize theme window? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. First-level elements colors
- B. Theme colors
- C. Divergent colors
- D. Sentiment colors

Answer:

- B. Theme colors
- C. Divergent colors

Explanation:

**B- theme colors - cause you can customize it yourself**

**C- Divergent - specifically address color blind users**

## Question 227:

You have a Power BI workspace that contains a semantic model and a report named Sales report.

All users in the sales department are assigned the Viewer role for the workspace.

The Sales report is configured as shown in the Sales report exhibit. (Click the Sales report tab.)

### Settings for Sales report

Choose the type of data you allow your end users to export.

Summarized data and data with current layout



#### Filtering experience

Allow users to change filter types



Enable search for the filter pane



#### Cross-report drill through

Allow visuals in this report to use drill-through targets from other reports



#### Comments

Allow users to add comments to this report.



#### Personalize visuals

Allow report readers to personalize visuals to suit their needs.



#### Modern visual tooltips

Use modern visual tooltips with drill actions and updated styling



#### Tooltips auto-scale (preview)

Tooltip size is affected by canvas size



#### Insights (preview)

Allow users to get notified when key insights are available for this report.



From Power BI Desktop, you configure the Report settings as shown in the Report settings exhibit. (Click the Report settings tab.)

**GLOBAL**

- Data Load
- Power Query Editor
- DirectQuery
- R scripting
- Python scripting
- Security
- Privacy
- Regional Settings
- Updates
- Usage Data
- Diagnostics
- Preview features
- Save and Recover
- Report settings

**CURRENT FILE**

- Data Load
- Regional Settings
- Privacy
- Auto recovery
- Published dataset settings
- Query reduction
- Report settings

**Persistent filters**

Don't allow end user to save filters on this file in the Power BI service

**Visual options**

Hide the visual header in reading view

Use the modern visual header with updated styling options

Change default visual interaction from cross highlighting to cross filtering

**Export data**

Allow end users to export data with current layout and summarized data from the Power BI service or Power BI Report Server

Allow end users to export data with current layout, summarized data and underlying data from the service or Report Server

Don't allow end users to export any data from the service or Report Server

**Filtering experience**

Allow users to change filter types

Enable search for the filter pane

**Cross-report drillthrough**

Allow visuals in this report to use drillthrough targets from other reports

**Personalize visuals**

Allow report readers to personalize visuals to suit their needs

**Develop a visual**

Override the available AppSource visual's version for this session, so you can upload and test a visual file

**Tooltips auto-scale (preview)**

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                    |
|---|-----------------------|-----------------------|
| A user can change a bar chart to a pie chart in the Sales report.                     | <input type="radio"/> | <input type="radio"/> |
| A user can reshare their modified visuals with users outside of the sales department. | <input type="radio"/> | <input type="radio"/> |
| A user can create a new quick measure and add it to a visual.                         | <input type="radio"/> | <input type="radio"/> |

**Answer:**

| Statements  | Yes                              | No                               |
|---|----------------------------------|----------------------------------|
| A user can change a bar chart to a pie chart in the Sales report.                     | <input type="radio"/>            | <input checked="" type="radio"/> |
| A user can reshare their modified visuals with users outside of the sales department. | <input checked="" type="radio"/> | <input type="radio"/>            |
| A user can create a new quick measure and add it to a visual.                         | <input type="radio"/>            | <input checked="" type="radio"/> |

**Explanation:**

- A. Yes
- B. No
- C. No.

**Question 228:**

You have a Power BI workspace.

You need to create two reports that meet the following requirements:

- Report1: Optimized for printing and can be delivered to users via a scheduled email subscription
- Report2: Optimized for dynamic user interactivity

Which format should you use for each report? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

Report1:

- Microsoft SQL Server Reporting Services (SSRS) (.rdlc)
- Power BI (.pbix)
- Power BI paginated (.rdl)

Report2:

- Microsoft SQL Server Reporting Services (SSRS) (.rdlc)
- Power BI (.pbix)
- Power BI paginated (.rdl)

#### Answer:

Verified Answer

#### Answer Area

Report1:

- Microsoft SQL Server Reporting Services (SSRS) (.rdlc)
- Power BI (.pbix)
- Power BI paginated (.rdl)**

Report2:

- Microsoft SQL Server Reporting Services (SSRS) (.rdlc)
- Power BI (.pbix)**
- Power BI paginated (.rdl)

#### Explanation:

- A. Box1:Power bi Paginated
- B. Box2:Power bi

#### Report1: Power BI Paginated (.rdl):

Paginated reports are designed for printing and exporting. They are highly structured, with content fixed to a page, and are ideal for generating large reports that can be emailed or printed in a consistent format. They are optimized for scenarios where the report layout and distribution (via email or other methods) are key considerations.

### Report2: Power BI (.pbix):

Power BI desktop files (.pbix) allow for dynamic interactivity. Users can filter, drill down, and interact with the data on the report. These are ideal for reports where users need to explore data interactively rather than just viewing static, printed information.

#### Summary:

- **Power BI Paginated Reports (.rdl)** → Best for **printing/exporting**, structured layouts, and **fixed** page formatting.
- **Power BI Reports (.pbix)** → Best for **interactive exploration**, filtering, and dynamic user engagement.

### Question 229:

You need to use Power BI to create a visual that will allow users to **compare the sales performance of five sales regions** for the **current month**.

#### Options:

- A. A **line chart**
- B. A **stacked bar chart**
- C. A **100% stacked bar chart**
- D. A **waterfall chart**

#### Answer:

- B. A **stacked bar chart**

#### Explanation:

- A **stacked bar chart** is best for comparing **sales performance** across multiple categories (in this case, sales regions) for a **specific period** (current month).
- It displays **individual sales values** per region while also showing the **total sales performance** in a **clear and easy-to-read manner**.

#### Why Other Options Are Incorrect:

- ✗ A. **Line chart** – Best for showing **trends over time**, but not ideal for comparing values within a **single month**.
- ✗ C. **100% stacked bar chart** – Shows the **relative percentage contribution** of each region rather than absolute sales values, which is not suitable for direct sales comparison.
- ✗ D. **Waterfall chart** – Used for showing changes in **cumulative values** over time or across categories, but not for direct comparison of sales performance.

Thus, a **stacked bar chart** is the most effective visual for comparing sales performance **by region** for the current month. 

**Question 230:**

You have a Power BI report that contains the table shown in the following exhibit.

The table contains conditional formatting that shows which stores are above, near, or below the monthly quota for returns.

**Current Month Returns in USD**

| Store ID     | Store      | Returns         |
|--------------|------------|-----------------|
| 6            | Leo        | \$6,108         |
| 5            | Fama       | \$6,097         |
| 13           | Contoso    | \$5,214         |
| 11           | Pomum      | \$4,968         |
| 7            | VanArtsdel | \$4,964         |
| 10           | Pirum      | \$4,644         |
| 2            | Aliqui     | \$4,479         |
| 1            | Abbas      | \$4,070         |
| 8            | Natura     | \$3,376         |
| 14           | Victoria   | \$2,317         |
| 4            | Salvus     | \$2,296         |
| 12           | Quibus     | \$2,208         |
| 3            | Barba      | \$1,601         |
| <b>Total</b> |            | <b>\$52,342</b> |

You need to ensure that the table is accessible to consumers of reports who have color vision deficiency.

**Options:**

- A. Move the conditional formatting icons to a tooltip report.
- B. Add alt text that lists the values in the table.
- C. Change the icons to use a different shape for each color.
- D. Remove the icons and use red, yellow, and green background colors instead.

**Answer:**

 **C. Change the icons to use a different shape for each color.**

**Explanation:**

- Users with **color vision deficiency** (such as red-green color blindness) may not distinguish colors effectively.
- Instead of relying only on color, using **different shapes** (, ,  or , , ) helps convey meaning visually to all users.
- This improves accessibility and ensures everyone can interpret the data correctly.

**Why Other Options Are Incorrect?**

- **A. Move the icons to a tooltip report** → Tooltips require hovering, which **hinders accessibility**.
- **B. Add alt text that lists the values in the table** → Alt text is useful but doesn't help users quickly interpret data visually.
- **D. Remove the icons and use red, yellow, and green background colors instead** → Color alone is not sufficient for accessibility.