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1. You are planning to get data from flat files for your company. The company wants a scheduled refresh for the dataset by using Microsoft 365 credentials. Which two of the following locations should you recommend? Select all that apply. 1 / 1 point

OneDrive for business

Correct

That's correct! OneDrive account provides the ability to automatically synchronize flat files hosting in a user's OneDrive and Power BI datasets. The OneDrive Business option uses Azure Active Directory credentials.

SharePoint – Team sites

Correct

That's correct! SharePoint - Team sites use the same Azure Active Directory credentials as the one used to access SharePoint Online.

Personal OneDrive account

Local file

2. You need to create a data source that external users can access. Which type of data source should you use? 1 / 1 point

SharePoint

SQL Server

OneDrive

Common data services

Correct

That's correct! Common data services allow users to securely store and manage data from various sources, including Office 365 and custom applications. It is a suitable option for creating data sources that external users can access because it provides a secure and scalable platform for managing data.

3. You have an Azure SQL database that contains sales transactions. The database is updated frequently. You are asked to create a report from the data to detect fraudulent transactions. The data must be visible within five minutes of any update. How will you configure the data connection? 1 / 1 point

By setting data connectivity to **import** mode.

By setting a command timeout in minutes.

By setting data connectivity to **DirectQuery**.

By adding a SQL statement.

Correct

That's correct! With **DirectQuery**, you can ensure the data is refreshed within the required time frequency. Your reports will be automatically updated as the new data is updated to the source database.

4. You have a Power BI file that imports several tables from Azure SQL database. The data will be migrated to another Azure SQL database. You need to change the connections in the Power BI file. The solution must minimize the administrative efforts. What should you do? 1 / 1 point

Modify the source of each query in the Power query editor.

Modify the data source settings.

Create a Power BI file, open the file, and change the data source when prompted.

Create new queries from the Power query editor.

Correct

That's correct! You need to modify the data source settings to change the connection before creating reports in Power BI.

5. Your data model contains a sales table with an **OrderDate** column. You want to analyze and visualize the sales data grouped by month. What transformation command of the Power query editor lets you create a month column without using DAX expression? 0 / 1 point

Trim

- Date
- Group By
- Extract

 **Incorrect**

Not quite. Please review the video [The Applied Steps List](#).

6. One of your columns in the data model contains information about the mailing address's city, state, and postal code. You must separate the fields to access the geospatial elements for map visualization. What transformation should you apply? 1 / 1 point

- Modify data type
- Replace values
- Modify data category
- Split column

 **Correct**

That's correct! You can split the column based on the delimiter present in the original column and use the resulting columns for geospatial visualization.

7. You have developed a query named **Customers** in Power BI desktop to append the rows from three external tables having customer data into a single customer table. You want to ensure each row in the new customer table has a unique ID value. What is the best way to add an **ID** column to the **customer** table? 1 / 1 point

- Modify the data model by adding an index column.
- Change the data model by extending the **Customers** table with an index column.
- Change the data model by extending the **Customers** table with a counter column.
- Modify the data model by adding a counter column.

 **Correct**

You can modify the model by adding an index column from the Power query editor. The index column will assign a unique ID to each customer row.

8. Your Power BI dataset has a table where each row represents a city, and there are columns for the population in different years like **Population_2019**, **Population_2020**, and so on. You want to display the data with a single column for the year and another column for the population. What transformation step can you achieve in Power BI? 1 / 1 point

- Split columns
- Unpivot columns
- Merge queries
- Pivot column

 **Correct**

That's correct! **Unpivot columns** is the most suitable transformation operation in the query editor to convert multiple columns into rows, allowing you to reshape the data as per the requirements.

9. You want to add a new column to the Power BI table that categorizes customers as high value if their total sales are above \$10,000. Which transformation in the query editor allows you to create such a column without using the DAX expression? 1 / 1 point

- Extract
- Group by
- Conditional split
- Custom column

 **Correct**

That's correct! In the query editor, you can add a custom column and define the conditions for the column based on the sales values for each customer.

10. You are designing a data model for hospital emergency visits. You want to capture patient information like name, address, insurance details, email, and phone number. Which type of table should you store this information? 1 / 1 point

- Measure table
- Fact table

- Look up table
- Dimension table

 **Correct**

That's correct! The information about the patients is descriptive in nature therefore should be stored in the dimension table that will provide context for the fact table of the data model.

11. You have a Power BI report displaying a column chart of monthly sales. In the column chart, the months are displayed alphabetically. Which transformation step should you apply to visualize sales data by month in the correct chronological order?

1 / 1 point

- Sort by column** from the Power BI desktop.
- Group by column** from the query editor.
- Sort by column** from the query editor.
- Group by column** from the Power BI desktop.

 **Correct**

That's correct! You need to sort the month column by the month number to visualize sales data by month in the correct chronological order.

12. You developed a query in Power BI desktop that retrieves data from an Excel spreadsheet. During the data analysis, you identify the need to view and modify multiple steps of data transformation in the entire M code. Which Power BI interface allows you to accomplish that?

1 / 1 point

- Advanced editor of Power query editor
- The **Model** view of Power BI desktop.
- The **Formula bar** of the query editor.
- The Power query editor.

 **Correct**

That's correct! The Advanced editor within the **Power query editor** provides the ability to view and modify the M script generated during the data transformation.

13. Which Power BI component allows you to create and manage dataflows?

1 / 1 point

- Power BI desktop interface
- Power BI data modeler
- Power BI Service
- Power query from Power BI desktop

 **Correct**

That's correct! You can only create and manage dataflows in the Power BI service and use them from Power BI desktop.

14. What happens when you make changes to the source query of a referenced query in Power BI?

1 / 1 point

- The changes only affect the current report.
- The changes are automatically applied to all referencing queries
- The reference queries do not change.
- The referencing queries become read-only.

 **Correct**

That's correct! In reference query you can use an existing query in another query. All changes made to the primary query are automatically applied to the referenced query ensuring data consistency and avoiding the repetition of data transformation steps.

15. You have a Power BI data model containing two tables **Sales** and **Employees**. The tables are related via a one-to-many relationship based on the **EmployeeID** column. You want to analyze the sales performance for each employee. Which cross-filter direction will you choose?

1 / 1 point

- Single**
- Both**
- None**

 **Correct**

That's correct! To analyze sales performance for each employee, you need to set a **single** cross-filter direction which ensures selecting an employee will filter the sales amount for that employee.

16. Your Power BI data model has a **Sales** fact table and a **Date** table. The **Sales** table contains two date columns: **ShipDate** and **OrderDate**.

1 / 1 point

Both date columns have a relationship to the **Date** column in the **Date** table, and DAX measures have been defined to use these relationships for calculations related to order date or ship date.

You need to make sure that the **Date** table does not filter the **Sales** table unless it is using DAX measures that use these relationships. What should you do?

- Enable **Make this relationship active** for both relationships.
- Set the cross-filter direction to **Both** for both relationships.
- Disable **Make this relationship active** for both relationships.
- Enable a security filter in both directions for both relationships.

 **Correct**

That's correct! In the Power BI data model, you can have multiple inactive relationships between two tables. DAX measures use the **USERRELATIONSHIP** function to compute the required analysis by activating the relationship necessary for the calculation.

17. You imported a data model to Power BI. The mode does not have a date dimension table that is needed to create complex time intelligence calculations. Which of the following tools can you use to create a date dimension table? Select all that apply:

1 / 1 point

DAX in the Power BI desktop.

 **Correct**

That's correct! DAX can only be used in Power BI desktop, and you can utilize it to create a common date table to complement your data model.

Python

 **Correct**

That's correct! You can also leverage Python to create a date table and import it in your data model.

SQL

M language in the query editor.

 **Correct**

That's correct! You can create a common date dimension using M language in power query editor.

DAX in the query editor.

18. Which of the following Power BI components can you use to configure the column and table properties of your data model? Select all that apply.

1 / 1 point

The Power query editor.

 **Correct**

That's correct! You can configure fundamental table and column properties in the query editor of Power BI desktop.

Visualizations pane of Power BI desktop.

The **Model** view of Power BI desktop.

 **Correct**

That's correct! The **Model** view of Power BI desktop allows you to configure and format the properties of tables and columns in depth.

Advanced editor.

19. Which function allows you to know the username of the person who is signed into Power BI service?

1 / 1 point

- LOOKUPVALUE()**
- USERPRINCIPALNAME()**
- USEROBJECTID()**

 **Correct**

That's correct! This function will tell you which user is online to view the report.

20. You have a Power BI model where you need to decide when to use implicit measures over explicit measures. What is the feature of implicit measures that explicit measures do not have?

1 / 1 point

- Implicit measures can be used to create **Quick measures**.
- End users can change the aggregation type of implicit measures from the **Values** well of the visual.
- Implicit measures can be used as a drill-through field.
- Implicit measures can be used with **Field parameters**.

 **Correct**

That's correct! In implicit measures, you can select one of the nine aggregations when placed in the **Values** well of the visual used. Therefore, users can alter the aggregation type according to their needs.

21. You have a Power BI desktop model that contains a **Sales** fact table and **Product** dimension table. You want to compute the total sales by product category by implementing the condition: "Only products that have a total sale of over \$20K should be displayed." What combination of DAX functions should you use to compute the measure?

1 / 1 point

- FILTER** and **SUMX**.
- FILTER** and **SUM**.
- SUM** and **CALCULATE**.
- FILTER** and **CALCULATE**.

 **Correct**

That's correct! The **FILTER** function narrows down the sales values for the product according to the defined criteria and **CALCULATE** modifies the filter context to compute the final measure.

22. You have a warehouse Power BI data model that contains a table named **Warehouse**. The table has a column named **Inventory count**, which contains the current number of items for each row of a particular product type on a given day.

1 / 1 point

The model has a DAX measure that calculates the sum of all values in the Inventory count column of the Warehouse table:

```
Current Inventory =  
  
CALCULATE ( SUM ( 'Warehouse'[Inventory Count] ) )
```

You must ensure that the **Current Inventory** returns only the current total number of inventory items, rather than the sum of all inventory items. You also need to make sure the state holidays and weekends should be excluded from the calculation. What additional DAX function should you include in the query?

- LASTNONBLANK**
- DISTINCTCOUNT**
- CALENDARAUTO**
- LASTDATE**

 **Correct**

That's correct! **LASTNONBLANK** functions will retrieve data only from the last date from the period where there is a value available eliminating any non-blank rows from the dataset.

23. You have a hospital emergency Power BI data model, and you want to know the emergency visits for the last 30 days. Which of the two DAX functions can you use to compute this measure? Select all that apply.

1 / 1 point

- TOTALYTD**
- DATESBETWEEN**

 **Correct**

That's correct! You can define the two time periods as the start and the end to compute the hospital visits.

- DATESINPERIOD**
- Correct**

That's correct! This function takes today's date as a parameter. You then need to define the number of intervals which is 30 for the current measure.

- SAMEPERIODLASTMONTH**

24. Which of the following DAX functions can be used as filter modification functions within **CALCULATE**? Select all that apply.

1 / 1 point

- USERRELATIONSHIP**

Correct

That's correct! This function engages the inactive relationship between the two related tables of the data mode and must be used within the **CALCULATE** function when defining a DAX measure.

KEEPFILTERS

Correct

That's correct! **KEEPFILTERS** adds a filter without removing the existing filter when used within **CALCULATE**.

FILTERS

CROSSFILTER

Correct

That's correct! This function modifies the filter direction and can also be used to disable the filter direction between the tables. You must use this function within **CALCULATE**.

EARLIER

25. You have created a data model in Power BI desktop that contains DAX-calculated columns and measures. You want to create a report from the model.

1 / 1 point

Where can you use DAX-calculated columns, without being able to use measures? Select all that apply.

- As a filter in the **Filters on this Page** well of the **Filters** pane.

Correct

That's correct! DAX measures cannot be placed in the **Filters on this page** well of the report.

- As an item in the **Add drill-through fields here** well of the **Visualization** pane.

- As an item in the **Fields** well of a **slicer**.

Correct

That's correct! Unlike measures, calculated columns can be used in the **slicer** to place filter options on the report page.

- As a filter in the **Filters on this visual** well of the **Filters** pane.

26. What Power BI feature can you use to store pre-aggregated data for improved query performance when working with **DirectQuery** sourced dataset?

1 / 1 point

- DAX measures
 Aggregated tables
 DAX calculated columns
 DAX calculated tables

Correct

That's correct! You need to create aggregated tables when working with **DirectQuery** connectivity to store pre-calculated data which enhances the query performance.

27. You are working on an on-premises SQL Server dataset to develop a real-time analytical solution. In addition to providing real-time analysis, you need to optimize the query performance. What actions should you take to optimize the query performance? Select all that apply.

1 / 1 point

- Import the data to Power BI memory.

- Connect Power BI via **DirectQuery** mode.

Correct

That's correct! Creating **DirectQuery** connection allows you to access real-time data from SQL Server.

- Create aggregations based on **DirectQuery**sourced tables.

Correct

That's correct! Aggregations on the **DirectQuery**sourced tables improve the performance and efficiency of query.

- Query the original data source for all analytical requirements

- Reduce the data volume by importing only necessary columns.

Correct

That's correct! Reducing the data by importing only the columns needed for analysis will reduce the model size thereby improving the query performance.

28. Which of the following **Data types** offers an optimal performance for the currency field of your data model?

1 / 1 point

- Whole number**
- Text
- Fixed decimal number**
- Decimal number**

 **Correct**

That's correct! In the performance analyzer, you can inspect the execution time of each DAX measure which helps you to identify the slow performing measures and optimize them.

29. You need to visualize the running total of a company by fulfilling the following criteria.

1 / 1 point

- The initial and final value columns must start on the horizontal axis.
- The intermediate values must be floating columns.

Which type of visualization should you choose?

- Funnel chart**
- Scatter plot**
- Waterfall chart**
- Combo chart**

 **Correct**

That's correct! A **Waterfall** visualization is a chart that displays the running total, with the initial and final value columns starting on the horizontal axis and the intermediate values are floating columns.

30. You need to create a custom visual using Python from Power BI desktop. What do you need to do first?

1 / 1 point

- Install Python on your computer
- Enable the script visuals options in the **Model View** of Power BI desktop.
- Configure the global Python scripting option in Power BI desktop.
- Enable preview features in Power BI desktop.

 **Correct**

That's correct! To enable custom Python visuals using Power BI desktop, you first need to install Python and its libraries on your computer. Configuring global scripting and enabling script visuals might be required after you install Python.

31. Your company provides you with a color scheme that they want to use throughout their reporting and analysis. How can you implement the color scheme into your Power BI workflow?

1 / 1 point

- Replace the report colors with the company's color scheme from the **Theme panel**.
- Create a color scheme in Power BI desktop and save it as a template for later use.
- Save the color scheme as JSON (JavaScript Object Notation) and upload it to Power BI as a **Custom theme**
- Save the color scheme as CSS and upload it to Power BI as a **Customtheme**.

 **Correct**

That's correct! You can create custom themes in Power BI based on any color combinations. You need to save the file in JSON format before you can upload it to Power BI desktop.

32. Which Power BI **Map** visuals allow you to create a geographical hierarchy in your report page? Select all that apply.

1 / 1 point

- Filled map**

 **Correct**

That's correct! You can create a geographical hierarchy by using a **Filled map** visual from the Power BI **Visualizations** pane.

- Shape maps**
- Azure maps**

 **Correct**

That's correct! **Azure maps** also let you create geo-hierarchy for your analytical work in Power BI desktop.

Heat maps

33. Power BI desktop supports many accessibility tools. Which keyboard keys let you access the accessibility features? 1 / 1 point

- Alt
- Alt + A
- Tab + A
- Tab

Correct

That's correct! The **Alt** key displays the **Keytips** over each command in the current view of the **Ribbon** with a letter displayed on each tab which lets you navigate various tools via accessibility.

34. True or False: Power BI allows you to add visual elements and images to your report tooltip. 1 / 1 point

- True
- False

Correct

That's correct! Your report tooltip can contain visuals, images, and any other collection of items you create on the report page.

35. How is drill-through different from drill-down functionality in Power BI? 1 / 1 point

- A drill down and drill through can be used interchangeably.
- Drill-through is used to expand hierarchies while drill-down provides detailed navigation.
- A drill-down is used for visuals, while a drill-through is used for tabular data.
- Drill-through provides a more detailed view while drill-down is used to expand hierarchies.

Correct

That's correct! Drill-through allows you to navigate data points for a detailed and focused report page while drill-down is used to expand the visual hierarchy to see the granular details within the same visual.

36. You have a Power BI desktop report containing three pages: **Main**, **Delayed Response**, and **On-time Response**. You have added a **Button** to the **Main** page for navigation. 1 / 1 point

You need to implement a solution that meets the following criteria:

- The navigation destination must change based on the output of a DAX measure name [Delayed Response].
- If [Delayed Response] is greater than 5%, the **Button** must display the text "Delayed Response" and navigate to the **Delayed Response** page.
- Otherwise, the **Button** displays the text "On-time Response" and navigates to the **On-time Response** page.

What actions should you perform? Select all that apply.

- Set the button type to **Bookmark** and then use **Conditional formatting** to specify the destination.
- Create a DAX measure that outputs the correct page name based on the value of [Delayed response].

Correct

That's correct! First, you need to create a DAX measure that outputs the correct destination page name.

- Set the **Button** type to page navigation and then use **Conditional formatting** to specify the destination.

Correct

That's correct! Then you need to configure the **Button** to use page navigation and use the newly created DAX measure to specify the navigation.

- Use **Conditional formatting** to set the **Button** text.

Correct

That's correct! To change the **Button** text to match the page name, conditional formatting must be used to set the text to equal the newly created DAX measure.

37. A fundamental principle of data storytelling is a cohesive report page and visuals should be placed in a logical order. Which Power BI element allows you to visualize 1 / 1 point

the order of visuals in the report page and configure them according to the narrative of your data story?

- Visualizations** pane of Power BI desktop.
- Selection pane** from Power BI desktop.
- Selection pane** from the query editor.
- Page navigator** from Power BI desktop.

 **Correct**

That's correct! The **Selection pane** of Power BI desktop enlists all the visuals present in the report canvas, where you can simply re-arrange the visuals by dragging and dropping them in an order that complements your data story.

38. True or False: You have a Power BI report with a live connection. One of the managers of the company is more comfortable using Excel for analyzing data. Power BI allows you to utilize the *Analyze in Excel* feature with a live-data connection to export the refreshable data from Power BI to Microsoft Excel. 1 / 1 point

- True
- False

 **Correct**

That's correct! You can export refreshable data with a live connection to the data source in the Excel workbook by selecting the Analyze in Excel feature of Power BI.

39. A Power BI dashboard needs to be optimized for cellular devices. Which Power BI component can you use to optimize the report for mobile devices? 1 / 1 point

- Power BI mobile app
- Power BI service
- Power BI report builder
- Power BI Desktop

 **Correct**

That's correct! You can only create and configure dashboards in Power BI service therefore mobile optimization can only be done in Power BI service.

40. You need to add an analytical line to a visual within your report. The value for the line must be equal to the result of a DAX measure that always returns a consistent single value. The DAX measure must only be used to populate the analytics line. Which type of analytics line should you use? 1 / 1 point

- Min line
- Constant line
- Max line
- Average line

 **Correct**

That's correct! Either the x- or y-axis **Constant line** allows a DAX measure to be used to provide the value for the visual that you can use for the current visual to fulfill the requirements.

41. You need to create a **Histogram** in your report that displays ranges of integers in groups. What resource do you need to create the **Histogram**? Select all that apply. 1 / 1 point

- A numerical column

 **Correct**

That's correct! The group is created against a numerical column using **Bins**.

- A **List group** type
- A **Bin group** type

 **Correct**

That's correct! The **Bin** group type is an auto-grouping of items into **Bins (groups)**. It will display well as a **Histogram**.

- A **Date/time** column

42. AI visuals are Power BI components designed to provide advanced analytics and insights by leveraging machine learning models and techniques. You are a sales manager of the company and want to analyze the revenue by region, category, and sales channel. Which of the following AI visuals is used to break down a specific value (revenue in this case) into its components? 1 / 1 point

- Waterfall chart
- Decomposition tree
- Q&A visual
- Key influencer visual

 **Correct**

That's correct! With the **Decomposition tree**, AI visual of Power BI, you can break down a single value into its components like Sales revenue into regions, categories, and sales channels which can reveal the strengths and weaknesses of your business operation.

43. You need to assign an app workspace role to users who consume reports. Users should only have permission to examine the report. Which role should you assign to users?

1 / 1 point

- Viewer role
- Member role
- Contributor role
- Admin role

 **Correct**

That's correct! The **Viewer** role only has reader access to view reports and dashboards, and you need to select this one.

44. You are creating a workspace in Power BI service. You must ensure you can configure a Microsoft 365 group whose SharePoint online document library is available to workspace users after it is created. Which setting should you configure when creating a workspace?

1 / 1 point

- Allow contributors to update the app
- Develop a template app
- License mode
- Workspace OneDrive

 **Correct**

That's correct! Workspace OneDrive settings allow you to configure the Microsoft 365 group whose SharePoint Online document library is available to workspace users once you have created the workspace.

45. You want to create Alerts to notify users if the data on the dashboard changes above or below a certain threshold. Which Power BI visual allows you to set and manage Alerts in Power BI service? Select all that apply:

1 / 1 point

- Card visual

 **Correct**

That's correct! The **Card** visual is the third visual element where you can set and manage Alerts within the Power BI service.

- Gauge

 **Correct**

That's correct! You can set up and manage Alerts in the **Gauge** visual, within the Power BI service.

- Custom visuals

- Python visual

- KPI

 **Correct**

That's correct! Power BI service also allows you to set and manage Alerts in **KPI**, a visual used to track performance against a predefined target.

46. Sensitivity labels are a way to classify critical content and protect your sensitive data without losing productivity. Which of the following components can you apply Sensitivity labels to in Power BI Service? Select all that apply:

1 / 1 point

- Workbooks
- Dataflows

 **Correct**

That's correct! Dataflows support the use of sensitivity labels in Power BI service.

Semantic models (Datasets)

Correct

That's correct! Semantic models support the use of sensitivity labels in Power BI service.

Paginated reports

Correct

That's correct! Paginated reports support the use of sensitivity labels in Power BI service.

47. Which of the following statements regarding publishing reports from Power BI desktop to Power BI service is true? 1 / 1 point

- Only reports are published to Power BI service.
- Both reports and datasets are published to Power BI service.
- Only datasets are published to Power BI service.

Correct

That's correct! When you publish a report from Power BI desktop to Power BI service, both reports and underlying datasets are published to Power BI service.

48. You are creating and managing dataflows for your organization. The company's data is hosted in on-premises SQL Server. 1 / 1 point

True or False: To create the dataflows, you do not need to install and configure data gateways.

- True
- False

Correct

That's correct! To create dataflows in Power BI service, you must install and configure data gateway to retrieve data from on-premises SQL server to the dataflows.

49. You have a Power BI data model that imports data from an on-premises SQL Server. You have implemented a scheduled refresh of the dataset. What happens to the Power BI report after each scheduled refresh? Select all that apply. 1 / 1 point

- Data is refreshed from the data source

Correct

That's correct! Upon each scheduled refresh that data is refreshed from the data source.

- Report visuals are refreshed
- Schema refresh that is change in data source table structure is shown

Correct

That's correct! A new column added, deleted, or renamed will also show in the schema upon scheduled refresh.

- Queries used to populate visuals are refreshed

Correct

That's correct! Queries that you define to populate report visuals are refreshed.

- Query caches are refreshed

50. Row-level security is commonly applied to which type of tables in Power BI? 1 / 1 point

- Lookup tables
- Dimension tables
- Data tables
- Fact tables

Correct

That's correct! Row-level security is typically applied to lookup tables in Power BI.