

1. **Which of the following is NOT a valid data source for Power BI?**
 - A) SQL Server
 - B) Excel
 - C) Microsoft Word
 - D) Oracle
2. **In Power BI, what is the purpose of the 'Get Data' function?**
 - A) To export data
 - B) To connect to different data sources
 - C) To clean data
 - D) To share reports
3. **What is the difference between a DirectQuery and an Import connection in Power BI?**
 - A) Import stores data, DirectQuery does not
 - B) DirectQuery stores data, Import does not
 - C) Both store data
 - D) Neither stores data
4. **Which DAX function is used to calculate the cumulative total?**
 - A) SUM()
 - B) CALCULATE()
 - C) CUMULATE()
 - D) TOTALYTD()
5. **In Power BI, what is the maximum file size limit for a .pbix file published to Power BI Service?**
 - A) 1 GB
 - B) 500 MB
 - C) 2 GB
 - D) 10 GB
6. **Which of the following is TRUE about Power BI's row-level security (RLS)?**
 - A) RLS is only available in Power BI Premium
 - B) RLS is applied at the dataset level
 - C) RLS cannot be applied to import models
 - D) RLS applies only to tables, not measures
7. **Which of the following DAX functions returns a table instead of a scalar value?**
 - A) SUMX()
 - B) COUNT()
 - C) CALCULATETABLE()
 - D) AVERAGE()
8. **Which visual in Power BI is best suited for showing hierarchical data?**
 - A) Bar chart
 - B) Treemap
 - C) Line chart
 - D) Scatter plot
9. **Which tool allows you to visualize the underlying data for a visual in Power BI?**
 - A) Power Query Editor
 - B) Export Data
 - C) Data View
 - D) Drill-through

10. **What happens if you use a DirectQuery connection and add a calculated column in Power BI?**
- A) It generates a query on the data source
 - B) It stores the data in-memory
 - C) It creates a relationship between tables
 - D) It causes a refresh on the dataset
11. **Which of the following is NOT a feature of the Power BI Power Query Editor?**
- A) Data transformation
 - B) Data cleaning
 - C) DAX expression writing
 - D) Appending queries
12. **How do you share a Power BI dashboard with users outside your organization?**
- A) Use the "Publish to web" feature
 - B) Send them the .pbix file
 - C) Share through Power BI Service with external user access
 - D) Export to Excel and share
13. **In a Power BI model, what is the purpose of setting a table to "Fact" in the data schema?**
- A) It improves performance
 - B) It designates the table as a fact table for use in relationships
 - C) It applies column-level security
 - D) It creates a composite model
14. **What does the RELATED() function do in Power BI?**
- A) Joins two tables
 - B) Filters data based on a relationship
 - C) Returns a value from a related table
 - D) Aggregates data from a related table
15. **Which of the following actions CANNOT trigger a dataset refresh in Power BI?**
- A) Scheduled refresh
 - B) Manual refresh from Power BI Service
 - C) Trigger from Power Automate
 - D) Editing a DAX formula
16. **What is the primary difference between a measure and a calculated column in Power BI?**
- A) Measures are recalculated at runtime, calculated columns are stored in the model
 - B) Calculated columns are recalculated at runtime, measures are stored in the model
 - C) Both are calculated at runtime
 - D) Both are stored in the model
17. **In Power BI, which DAX function would you use to get the value of the current year's sales?**
- A) YEAR()
 - B) SAMEPERIODLASTYEAR()
 - C) CALCULATE()
 - D) TOTALYTD()
18. **How can you optimize a Power BI report with a large dataset for better performance?**
- A) Use Import mode instead of DirectQuery
 - B) Use many calculated columns

- C) Remove relationships between tables
 - D) Avoid creating indexes
19. **Which of the following is a valid use case for a composite model in Power BI?**
- A) Combining Import and DirectQuery data sources in a single report
 - B) Merging two identical tables
 - C) Applying row-level security on a table
 - D) Using only DirectQuery
20. **Which feature in Power BI allows you to break down complex visuals and understand them in depth?**
- A) Tooltips
 - B) Drill-down
 - C) Filters
 - D) Bookmarks
21. **Which of the following file formats can be imported directly into Power BI Desktop?**
- A) .txt
 - B) .docx
 - C) .pptx
 - D) .json
22. **What is the primary purpose of the Power BI Gateway?**
- A) To enable scheduled refresh of on-premises data
 - B) To visualize data from multiple sources
 - C) To publish Power BI reports
 - D) To improve performance of large datasets
23. **What does the "Auto Date/Time" option in Power BI do?**
- A) Automatically creates date hierarchies in visuals
 - B) Creates a hidden date table for each date field in the model
 - C) Allows for faster data refreshes
 - D) None of the above
24. **Which visual would be best to display changes over time?**
- A) Treemap
 - B) Stacked bar chart
 - C) Line chart
 - D) Table
25. **What role do "Bookmarks" play in Power BI?**
- A) They allow report viewers to create custom views
 - B) They capture the state of a report page for navigation or storytelling
 - C) They store data connections
 - D) They apply security settings to the report
26. **Which type of relationship is most common in Power BI between tables?**
- A) One-to-one
 - B) One-to-many
 - C) Many-to-many
 - D) Circular
27. **Which is NOT a valid option when defining measures in Power BI?**
- A) Calculated Column
 - B) New Measure
 - C) Calculated Table

- D) Key Performance Indicator (KPI)
28. **What is the maximum number of columns allowed in a Power BI table?**
- A) 16,384
 - B) 30,000
 - C) 10,000
 - D) 20,000
29. **Which DAX function would you use to create a running total in Power BI?**
- A) SUM()
 - B) CALCULATE()
 - C) RANKX()
 - D) TOTALYTD()
30. **Which of the following features in Power BI is best suited for creating a user-defined scenario analysis?**
- A) Bookmarks
 - B) What-if Parameters
 - C) Filters
 - D) Tooltips
31. **What does the 'Append Queries' feature in Power BI allow you to do?**
- A) Combine columns from two queries
 - B) Add rows from one query to another
 - C) Merge rows based on a common key
 - D) Join tables without relationships
32. **In Power BI, what is the primary use of the CALCULATE() DAX function?**
- A) To compute a column's total
 - B) To change the context of an expression
 - C) To perform a sum operation
 - D) To apply time intelligence
33. **Which function would you use in Power BI to remove duplicate values in a column?**
- A) REMOVE()
 - B) DELETE()
 - C) DISTINCT()
 - D) UNIQUE()
34. **What does the Power BI Service Pro license allow users to do?**
- A) Publish reports to the web
 - B) Share reports with other users inside and outside the organization
 - C) Automatically refresh reports every 5 minutes
 - D) Use Power BI Desktop
35. **Which of the following tools is used to optimize data models in Power BI?**
- A) Power Query
 - B) Performance Analyzer
 - C) DAX Studio
 - D) Power Automate
36. **What does the FORMAT() function in DAX do?**
- A) Changes the structure of a table
 - B) Converts a value to a specified format
 - C) Deletes columns based on condition
 - D) Filters data based on relationships

37. **Which of the following options enables real-time data streaming in Power BI?**
- A) DirectQuery mode
 - B) Dataflows
 - C) Power BI streaming dataset
 - D) Composite models
38. **Which of the following can be used to improve performance of a DirectQuery model in Power BI?**
- A) Using calculated columns
 - B) Reducing the number of visuals per page
 - C) Switching to Import mode
 - D) Avoiding relationships between tables
39. **Which of the following visuals allows you to display a summary of data across categories?**
- A) Waterfall chart
 - B) Line chart
 - C) KPI
 - D) Funnel chart
40. **What is the purpose of using the “What-if” parameter in Power BI?**
- A) To perform row-level security
 - B) To conduct hypothetical scenario analysis
 - C) To create calculated columns
 - D) To refresh data automatically
41. **What feature allows Power BI to display different values in visuals based on the user who is viewing the report?**
- A) Row-Level Security (RLS)
 - B) DAX Filters
 - C) Drill-through filters
 - D) Power Query transformations
42. **Which function in Power BI is best suited for creating a calendar table?**
- A) DATEDIFF()
 - B) CALENDARAUTO()
 - C) YEAR()
 - D) TODAY()
43. **Which of the following types of joins is not available in Power BI’s Power Query Editor?**
- A) Inner Join
 - B) Left Anti Join
 - C) Full Outer Join
 - D) Cartesian Join
44. **What happens when you pin a live page to a Power BI dashboard?**
- A) The visuals will not be interactive
 - B) The visuals will not refresh with new data
 - C) The entire page, including all visuals, is pinned as a live tile
 - D) Only selected visuals are pinned
45. **Which of the following data types is NOT supported in Power BI?**
- A) Binary
 - B) Image
 - C) Text

- D) Integer
46. **Which of the following is TRUE about the Power BI Service free version?**
- A) You can publish to the web
 - B) You can share reports with others in your organization
 - C) It supports scheduled data refreshes
 - D) It includes advanced AI visuals
47. **Which of the following time intelligence DAX functions returns the total sales for the same period in the previous year?**
- A) SAMEPERIODLASTYEAR()
 - B) PREVIOUSYEAR()
 - C) LASTYEAR()
 - D) TOTALYTD()
48. **In Power BI, which of the following visualizations allows you to display variance across different categories?**
- A) Stacked area chart
 - B) Waterfall chart
 - C) Pie chart
 - D) Line chart
49. **Which DAX function allows for filtering on a specific condition while performing a calculation?**
- A) CALCULATE()
 - B) SUM()
 - C) FILTER()
 - D) IF()
50. **Which of the following options allows you to build and share dataflows in Power BI?**
- A) Power BI Desktop
 - B) Power BI Service
 - C) Power Query Editor
 - D) Power BI Embedded

Question	Answer	Explanation
1	C	Microsoft Word is not a valid data source for Power BI. Power BI supports structured data sources like SQL, Excel, Oracle, etc.
2	B	The 'Get Data' function is used to connect to different data sources from which you can import data into Power BI.
3	A	Import stores data in-memory in Power BI, while DirectQuery queries the data source directly without storing it.
4	D	TOTALYTD() is used to calculate the cumulative total or year-to-date total in Power BI.

5	C	Power BI has a limit of 2 GB for .pbix files when publishing to the Power BI Service.
6	B	Row-level security (RLS) is applied at the dataset level, restricting data access for different users.
7	C	CALCULATETABLE() returns a table, whereas functions like SUMX() return scalar values.
8	B	A treemap is best suited for visualizing hierarchical data with categories and subcategories.
9	B	The "Export Data" feature allows you to view and export the underlying data for any visual in Power BI.
10	B	Calculated columns in DirectQuery mode are stored in-memory, unlike measures that calculate at query time.
11	C	DAX expression writing is not done in the Power Query Editor; it's used for transforming and cleaning data.
12	C	You can share a Power BI dashboard with external users through Power BI Service with the appropriate user permissions.
13	B	In Power BI, setting a table as "Fact" helps define it for relationships and distinguishes it from dimension tables.
14	C	The RELATED() function retrieves values from a related table based on an existing relationship.
15	D	Editing a DAX formula does not trigger a dataset refresh, but it does trigger recalculation for measures and visuals.
16	A	Measures are recalculated when a report is viewed, while calculated columns are stored in the model as static data.
17	D	TOTALYTD() is the function used to calculate the total for the current year's sales up to the current date.
18	A	Import mode improves performance by storing data in-memory rather than querying the data source for each interaction.
19	A	A composite model allows combining DirectQuery and Import data sources in one report, enabling flexibility.
20	B	Drill-down functionality lets users explore data at different levels of granularity within a visual.
21	D	Power BI supports importing data in .json format, among others like .csv, .xlsx, etc.

22	A	Power BI Gateway is primarily used for enabling scheduled refreshes of on-premises data sources.
23	B	The "Auto Date/Time" option automatically creates hidden date tables for any date column in your data model.
24	C	A line chart is best for showing data trends over time, with continuous data points connected by lines.
25	B	Bookmarks capture the state of a report page (filters, visuals, etc.) and allow users to navigate or present stories.
26	B	The one-to-many relationship is the most common in Power BI, where a table of unique values is related to one with duplicates.
27	A	Calculated Columns and Tables are different from Measures, which are calculations at the visual level.
28	B	Power BI tables can have a maximum of 30,000 columns, but such extreme cases are rare and inefficient.
29	D	TOTALYTD() is used for calculating running totals for year-to-date values in Power BI.
30	B	"What-if" Parameters allow users to create scenarios for analysis, such as testing how different variables impact results.
31	B	The "Append Queries" function adds rows from one query to another, similar to a SQL UNION operation.
32	B	CALCULATE() changes the filter context of an expression, allowing dynamic calculations based on specific criteria.
33	C	DISTINCT() removes duplicate values from a column and returns unique values.
34	B	Power BI Pro allows users to share reports within and outside the organization with user permissions.
35	C	DAX Studio is used for optimizing and debugging data models, including improving performance in Power BI.
36	B	The FORMAT() function formats numbers and dates into a specified format for display purposes in Power BI.
37	C	Power BI streaming datasets allow real-time data visualization and updates in dashboards.
38	B	Reducing the number of visuals per page can improve performance in DirectQuery mode by minimizing queries.

39	A	The waterfall chart is used to display sequential positive and negative changes across categories.
40	B	"What-if" Parameters allow users to test different scenarios, making it useful for predictive analysis.
41	A	Row-Level Security (RLS) in Power BI filters data based on the user accessing the report, allowing role-based access.
42	B	CALENDARAUTO() generates a continuous range of dates based on the data in your model, useful for time-based analysis.
43	D	Cartesian Join (cross join) is not available directly in Power BI's Power Query; only SQL engines support it.
44	C	Pinning a live page pins the entire report page, including all visuals, as an interactive, real-time tile on a dashboard.
45	B	Power BI does not support displaying images as a data type within tables, but it supports binary and other formats.
46	A	Power BI Service Free allows publishing to the web and basic functionality but has limited sharing capabilities.
47	A	SAMEPERIODLASTYEAR() returns the total for the same period (such as a month or quarter) in the previous year.
48	B	A waterfall chart shows variances across categories by illustrating increases and decreases across a range.
49	A	CALCULATE() is used to filter data while performing aggregations or other calculations.
50	B	Power BI Service enables building and sharing dataflows, which are reusable ETL processes across datasets.