## Multiple-Choice Questions on "Add and Model Data in Power BI"

#### 1. What is the first step in importing data into Power BI?

- A. Visualizing data
- B. Modeling relationships
- C. Connecting to a data source
- D. Creating a report

**Answer:** C. Connecting to a data source

Explanation: The process begins by connecting to a data source to import data into Power

BI. This step is essential before performing transformations or visualizations.

#### 2. Which of the following data sources can Power BI connect to?

- A. Excel files
- B. SQL databases
- C. Web APIs
- D. All of the above

Answer: D. All of the above

**Explanation:** Power BI supports a wide range of data sources, including Excel, databases,

and APIs, making it versatile for various data integration needs.

## 3. What is the primary purpose of the Power Query Editor in Power BI?

- A. Create visualizations
- B. Clean and transform data
- C. Model relationships
- D. Build reports

Answer: B. Clean and transform data

**Explanation:** The Power Query Editor is used to clean, transform, and prepare data before

loading it into Power BI.

#### 4. What does the "Close & Apply" button do in Power Query Editor?

- A. Closes Power BI
- B. Applies changes and loads data
- C. Discards changes
- D. Opens a new dataset

Answer: B. Applies changes and loads data

Explanation: "Close & Apply" applies all transformations made in Power Query and loads

the data into the Power BI model.

#### 5. What is a Data Model in Power BI?

- A. A collection of data visualizations
- B. A schema of tables and their relationships
- C. A repository for unstructured data
- D. A feature for creating dashboards

**Answer:** B. A schema of tables and their relationships

Explanation: A data model defines the structure of data tables and how they relate to each

other within Power BI.

### 6. What is a "relationship" in Power BI?

- A. A connection between two visuals
- B. A link between two tables
- C. A hierarchy of fields
- D. A connection to a data source

Answer: B. A link between two tables

**Explanation:** Relationships in Power BI connect tables, enabling data to be used together in

visualizations and calculations.

# 7. Which type of relationship cardinality is used when one table has unique values and the other has duplicate values?

- A. Many-to-Many
- B. One-to-One
- C. One-to-Many
- D. None

Answer: C. One-to-Many

**Explanation:** A One-to-Many relationship occurs when one table contains unique values, and the related table can have duplicates.

#### 8. What visual indicator shows a relationship in Power BI's Model view?

- A. A dashed line
- B. A solid line with arrows

- C. A circular icon
- D. A star icon

Answer: B. A solid line with arrows

**Explanation:** Solid lines with arrows represent active relationships between tables in the

Model view.

#### 9. How can you create a relationship between tables in Power BI?

- A. Dragging and dropping fields in the Data view
- B. Using Power Query Editor
- C. Dragging and dropping tables in the Model view
- D. Writing a DAX formula

Answer: C. Dragging and dropping tables in the Model view

**Explanation:** Relationships can be created by dragging and dropping fields between tables

in the Model view.

## 10. What type of join does Power BI use by default when combining data from multiple tables?

- A. Left Join
- B. Right Join
- C. Inner Join
- D. Full Outer Join

Answer: A. Left Join

**Explanation:** Power BI uses a Left Join by default when combining data, ensuring all rows

from the first table and matching rows from the second are included.

### 11. What feature allows you to create calculated columns in Power BI?

- A. Power Query
- B. DAX (Data Analysis Expressions)
- C. Report Editor
- D. Power BI Service

**Answer:** B. DAX (Data Analysis Expressions)

**Explanation:** DAX is used to create calculated columns, measures, and custom logic in

Power BI.

#### 12. Which of the following is an example of a DAX function?

- A. SUM
- **B. LEFT JOIN**
- C. CONCATENATE
- D. All of the above

Answer: D. All of the above

Explanation: DAX provides functions like SUM for aggregation, CONCATENATE for string

operations, and supports complex logic.

#### 13. What is the purpose of the "Relationships" pane in Power BI?

A. To transform data

- B. To manage relationships between tables
- C. To visualize data
- D. To connect to data sources

**Answer:** B. To manage relationships between tables

**Explanation:** The "Relationships" pane allows users to define and manage relationships

between tables in the model.

#### 14. What is the difference between a calculated column and a measure in Power BI?

- A. Measures are row-level calculations; calculated columns are aggregated.
- B. Measures are aggregated; calculated columns are row-level calculations.
- C. Measures and calculated columns are the same.
- D. Measures are stored in Power Query.

**Answer:** B. Measures are aggregated; calculated columns are row-level calculations.

**Explanation:** Calculated columns are computed for each row, while measures aggregate data for reporting purposes.

#### 15. What is "data type" in Power BI?

- A. The visualization type of a chart
- B. The format of a dataset file
- C. The kind of data stored in a column
- D. The connection method

Answer: C. The kind of data stored in a column

Explanation: Data types define the kind of data (e.g., text, number, date) in a column,

ensuring proper handling in analyses.

#### 16. How can you change the data type of a column in Power BI?

- A. By renaming the column
- B. Using the "Data Type" dropdown in Power Query
- C. By adding a new table
- D. It cannot be changed

Answer: B. Using the "Data Type" dropdown in Power Query

**Explanation:** Data types can be modified in the Power Query Editor to ensure consistency

and accuracy.

#### 17. What is a Star Schema in Power BI?

- A. A network of relationships
- B. A database schema for dashboards
- C. A design where a central fact table is linked to dimension tables
- D. A visual chart type

Answer: C. A design where a central fact table is linked to dimension tables

**Explanation:** A Star Schema organizes data for efficient querying by linking a fact table to

dimension tables.

## 18. Which of the following is a valid cardinality option in Power BI relationships?

- A. Many-to-Many
- B. Many-to-One
- C. One-to-One
- D. All of the above

Answer: D. All of the above

**Explanation:** Power BI supports various cardinality options depending on the nature of the

data relationship.

#### 19. What does "Bidirectional filtering" do in Power BI?

- A. Filters data only from the fact table
- B. Filters data only from the dimension table
- C. Allows filtering in both directions between tables
- D. Disables filtering

**Answer:** C. Allows filtering in both directions between tables

**Explanation:** Bidirectional filtering ensures data can flow in both directions, useful for certain

analysis scenarios.

### 20. How can you handle missing data in Power Query?

- A. Replace values with NULL
- B. Remove rows
- C. Replace values with a default value
- D. All of the above

Answer: D. All of the above

Explanation: Power Query offers multiple methods for handling missing data, including

replacing or removing rows.

Would you like me to continue with more?

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You said:

yes

ChatGPT said:

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### 21. What is the purpose of the "Merge Queries" operation in Power Query?

- A. To filter rows from a table
- B. To join tables based on a common field
- C. To add a new column to a table
- D. To remove duplicates from a table

**Answer:** B. To join tables based on a common field

**Explanation:** "Merge Queries" allows users to combine data from two tables by defining a relationship using a shared field.

## 22. Which of the following visualizations is best for showing relationships in a data model?

- A. Scatter plot
- B. Data Model view
- C. Bar chart
- D. Line chart

Answer: B. Data Model view

**Explanation:** The Data Model view visually represents relationships between tables and

allows users to manage them effectively.

#### 23. What does the term "fact table" refer to in a data model?

- A. A table containing detailed data for transactions or events
- B. A table storing descriptive information about entities
- C. A table storing unrelated data
- D. A table exclusively for numerical data

**Answer:** A. A table containing detailed data for transactions or events

**Explanation:** Fact tables store transactional or event data, typically used in conjunction with dimension tables in a data model.

## 24. What is the purpose of a "dimension table"?

- A. To store aggregated data
- B. To provide descriptive attributes for a fact table
- C. To hold measures
- D. To serve as a standalone table

**Answer:** B. To provide descriptive attributes for a fact table

**Explanation:** Dimension tables store descriptive data (e.g., names, categories) that

contextualize the numerical data in fact tables.

### 25. How can you improve performance in a Power BI data model?

- A. Avoid using too many visuals
- B. Use calculated columns instead of measures
- C. Reduce data by using filters or aggregations
- D. Disable relationships

**Answer:** C. Reduce data by using filters or aggregations

**Explanation:** Minimizing the size of data by filtering or aggregating helps improve Power BI

performance.

## 26. Which of the following is a common type of table relationship issue in Power BI?

- A. Incorrect joins
- B. Circular references
- C. Missing keys
- D. All of the above

Answer: D. All of the above

**Explanation:** Issues like incorrect joins, circular references, or missing keys can disrupt relationships and cause errors in the model.

### 27. What is the significance of the "Auto Date/Time" feature in Power BI?

- A. Automatically formats date columns
- B. Creates a hidden date table for every date field
- C. Enables time zone adjustments
- D. Groups dates into fiscal periods

Answer: B. Creates a hidden date table for every date field

Explanation: The Auto Date/Time feature simplifies date analysis by automatically creating

a hidden table for each date field.

#### 28. What is the default filter direction for a One-to-Many relationship in Power BI?

- A. Single
- B. Both
- C. None
- D. Cross

Answer: A. Single

**Explanation:** The default filter direction is from the "One" side to the "Many" side, ensuring

accurate filtering.

#### 29. What feature allows you to group rows in Power Query?

- A. Append Queries
- B. Group By
- C. Filter Rows
- D. Merge Queries

**Answer:** B. Group By

Explanation: The "Group By" feature in Power Query aggregates data based on specified

fields.

### 30. Which tool in Power BI is primarily used for writing complex queries?

- A. Power Query Editor
- B. DAX Studio
- C. Relationships view
- D. Report Editor

Answer: B. DAX Studio

Explanation: DAX Studio is a tool for writing and testing complex DAX queries outside

Power BI.

#### 31. What is a Many-to-Many relationship in Power BI?

- A. A relationship where both tables contain unique values
- B. A relationship where both tables have duplicate values
- C. A connection without primary keys
- D. A deprecated feature

Answer: B. A relationship where both tables have duplicate values

Explanation: Many-to-Many relationships occur when both tables can have duplicate values

for the key field.

#### 32. What is a calculated table in Power BI?

A. A table imported from a data source

- B. A table created using a DAX formula
- C. A table without relationships
- D. A table with default columns

Answer: B. A table created using a DAX formula

Explanation: Calculated tables are created in Power BI using DAX expressions for custom

analyses.

#### 33. What is the purpose of "Hierarchies" in Power BI?

- A. To join tables
- B. To simplify navigation through related fields
- C. To filter data across tables
- D. To export data

**Answer:** B. To simplify navigation through related fields

**Explanation:** Hierarchies group fields into levels, such as Year > Month > Day, for easier

drill-down analysis.

#### 34. What type of field is essential to create a relationship between two tables?

- A. Numeric field
- B. Text field

- C. Common key field
- D. Date field

Answer: C. Common key field

**Explanation:** A common key field, such as an ID or name, is required to establish

relationships between tables.

## 35. What is the use of "Data Categories" in Power BI?

- A. Formatting numbers
- B. Defining data types
- C. Assigning semantic meaning to data (e.g., Geo, URL)
- D. Managing relationships

Answer: C. Assigning semantic meaning to data (e.g., Geo, URL)

**Explanation:** Data Categories help Power BI understand how to treat fields, like geocoding

locations or linking URLs.

## 36. How do you ensure data integrity in Power BI relationships?

- A. Avoid using primary keys
- B. Use consistent data types in related fields
- C. Only use Many-to-Many relationships
- D. Avoid bidirectional filters

**Answer:** B. Use consistent data types in related fields

**Explanation:** Ensuring consistent data types in related fields prevents relationship errors.

#### 37. What is the purpose of the "Append Queries" operation in Power Query?

- A. To combine data from multiple tables into one
- B. To filter data
- C. To aggregate data
- D. To join tables

**Answer:** A. To combine data from multiple tables into one

Explanation: "Append Queries" stacks rows from different tables or queries into a single

dataset.

#### 38. How does Power BI handle case sensitivity in relationships?

- A. Relationships are case-sensitive
- B. Relationships are not case-sensitive
- C. Case sensitivity is optional
- D. Power BI prompts users

**Answer:** B. Relationships are not case-sensitive

**Explanation:** Power BI treats relationships as case-insensitive, so "ABC" and "abc" are

considered equal.

#### 39. What happens if there are no relationships between tables in Power BI?

- A. Power BI automatically creates them
- B. Data cannot be analyzed across tables
- C. DAX queries automatically link tables
- D. Relationships are optional

Answer: B. Data cannot be analyzed across tables

**Explanation:** Without relationships, Power BI cannot combine data from multiple tables in a

meaningful way.

### 40. What is the purpose of "Calculated Measures" in Power BI?

- A. To perform row-level calculations
- B. To aggregate data dynamically based on filters
- C. To join data sources
- D. To group data

**Answer:** B. To aggregate data dynamically based on filters

**Explanation:** Measures calculate values dynamically, reflecting changes in filters and

slicers.

Let me know if you'd like to expand further or refine any section!

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You said:

yes

ChatGPT said:

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#### 41. What is a common issue when importing data into Power BI from Excel?

- A. Data not refreshing automatically
- B. Unsupported file format

- C. Missing relationships
- D. Incorrect column headers

**Answer:** A. Data not refreshing automatically

**Explanation:** Data imported from Excel often requires manual refreshing unless connected via a dynamic link or through Power BI Service.

#### 42. How does Power BI treat blank values in relationships?

A. As NULL

- B. As distinct values
- C. As errors
- D. As matching values

Answer: B. As distinct values

**Explanation:** Power BI considers blank values as distinct, so they do not automatically

match with any other value in relationships.

### 43. What does the "Enable Load" option do in Power Query?

- A. Loads data to the model
- B. Disables all relationships
- C. Stops data from being loaded to the model
- D. Automatically creates measures

**Answer:** C. Stops data from being loaded to the model

**Explanation:** The "Enable Load" option controls whether a table or query is loaded into the

Power BI data model.

#### 44. What is the primary advantage of using DAX over Power Query for calculations?

- A. DAX is simpler to use
- B. DAX calculations are dynamic and respond to filters
- C. DAX offers better data cleaning options
- D. DAX works on raw data directly

**Answer:** B. DAX calculations are dynamic and respond to filters

**Explanation:** DAX measures are recalculated dynamically based on slicers, filters, and

other report elements.

#### 45. How does Power BI resolve Many-to-Many relationships?

- A. By ignoring them
- B. By creating a bridging table
- C. By converting them to One-to-Many relationships
- D. By duplicating data

Answer: B. By creating a bridging table

**Explanation:** Many-to-Many relationships in Power BI are handled through implicit bridging

tables to avoid data conflicts.

## 46. What is the role of "Field Formatting" in Power BI?

A. To create relationships

- B. To adjust visual appearance of data fields
- C. To perform calculations
- D. To transform data

**Answer:** B. To adjust visual appearance of data fields

**Explanation:** Field formatting customizes how data appears, such as number formats,

decimal places, or date formats.

## 47. What is the maximum number of tables that can be related in a single Power BI model?

A. 50

B. 200

C. Unlimited

D. 1,000

Answer: C. Unlimited

**Explanation:** There is no predefined limit to the number of tables that can be related in

Power BI, though performance may degrade with very large models.

#### 48. How do you hide a column from a report in Power BI?

- A. Delete the column
- B. Use the "Manage Relationships" pane
- C. Right-click the column and select "Hide"
- D. Change the column data type

Answer: C. Right-click the column and select "Hide"

**Explanation:** Columns can be hidden from reports but still remain in the model for

calculations or relationships.

### 49. What is the purpose of "Row Level Security" (RLS) in Power BI?

- A. To restrict access to specific rows of data
- B. To format rows in a table
- C. To aggregate data dynamically
- D. To optimize model performance

Answer: A. To restrict access to specific rows of data

**Explanation:** RLS enforces security rules to ensure users only see data they are authorized

to view.

#### 50. What does the "Quick Measures" feature in Power BI do?

- A. Automatically builds DAX formulas for common calculations
- B. Simplifies Power Query transformations
- C. Automatically relates tables
- D. Adjusts visualization settings

**Answer:** A. Automatically builds DAX formulas for common calculations **Explanation:** Quick Measures help users create common DAX calculations like running totals or percentage of totals without writing complex code.