

## POWER BI INTERVIEW QUESTIONS

### Power Query Editor Questions

#### 1. what is Power Query Editor?

Power Query Editor is a data connection technology and a component of Microsoft Power BI and Excel.

It allows users to connect to various data sources, transform and shape the data according to their needs.

#### 2. what are the Connection Present in Powerbi?

1. Import
2. Direct Mode
3. Live Connection

Import → Limitation until 1GB Data

→ Flat Files (Excel and CSV)

Direct Mode → Data Fetch from Database (SQL)

1. Power Pivot
2. Power Visual

Live Connection → Analytical Services like cloud, AWS, Azure

→ Big Database

→ Worked in Visual

#### 3. What is Live Connection?

→ A Live Connection in Power BI refers to a direct and real-time connection between Power BI report and the underlying data source.

→ Power BI retrieves data directly from the data source every time a report or visualization is refreshed.

→ Information up-to-date.

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4). What is Reference?

→ Primary Table

→ whatever changes in original Table → <sup>Replicated</sup> <sub>(Reflected)</sub> updated to reference Table.

5). What is duplicate?

→ No changes in duplicate

→ whatever changes doesn't replicate to reference table.

→ Feature allows you to create an identical copy of an existing query.

6). What is Powerbi?

→ unstructured data into structures and then create an interactive visualization  
Called Powerbi.

7). What is Append and Merge?

Append

One or two more existing table joining in a rowwise is called Append.

Condition

1. Data type should be same

2. Column should be same

Merge

One or two table merge Columnwise is called Merge.

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8). what are the types of Joins in Powerbi?

- 1) Inner Join
- 2) Right Outer Join
- 3) Left Outer Join
- 4) Full Outer Join
- 5) Right Anti Join
- 6) Left Anti Join

9). what is Query folding?

→ Query folding in Power Bi refers to the optimization process where certain data transformation steps in Power

Query Editor are pushed back to the data source

to perform the transformation instead of PowerBi engine.

→ Direct Mode ( Improve the Performance)

→ Query folding work on Direct mode.

10). What is M-Language? (ETL)

→ Mashup Language is the Powerbi Language

→ Mashup Language Native Query Converted into <sup>(Power Bi)</sup>proposed Source Code. (SQL)

11). what is Query Dependency?

How many Queries are linked inside the Powerbi.

12). what is Pivot and unpivot?

→ Row is converted into Column. it will give

Some aggregation (Pivot)

→ Column is converted into Row it will give

Some aggregation (unpivot)

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13). What is grouping and binning in Power BI?

→ Grouping and Binning is also called If Condition.

→ Grouping in Power BI involves Combining rows in a table based on Common Values in One or more Columns.

→ Apply Aggregate functions like Sum, Average, Count etc..

Binning involves categorizing Numerical data into discrete groups or "bins", based on Specified ranges or intervals.

→ Useful for creating Histograms or Summarizing Continuous data.

14). What is groupby function in Power Query Editor?

→ Have to calculate Sales Category wise and category of Some of Sales.

→ GroupBy function is used to group rows in a table based on one or more columns and Perform aggregate operations on the grouped data.

Q) What is dimension and Measure?

Dimension It is a categorical attribute that provide Context and categorizes data.

→ Descriptive and represent Qualitative Information.

→ Used for Slicing, filtering, grouping

→ Categorical and Descriptive.

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Measures A measure is a quantitative value that represents a metric or calculation.

- Numeric and Quantitative
- Involves calculations like sums, average, etc.
- used for Aggregation and analysis.

16). What are the most common data shaping techniques?

1. Filtering
2. Sorting
3. Grouping
4. Pivot and unpivoting
5. Merge and Append
6. Splitting Columns
7. Renaming Columns
8. Removing Duplicates.

17). Components of Power BI

3 Components are available

1. Power Query - (ETL)
2. Power Pivot - (Data Modeling)
3. Power Visual - (Visuals)

ETL - Extract Transform Load

unstructured Data

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what is Power Query? and Power Pivot?

Power Query	Power Pivot
1. It is used for ETL Process	1. It is used for Data Modelling.
	Data Modelling
Related Table	Related Table
1. To get the information from another Table. 2. Based on relationship Many to One	1. Associated with the assign Values. 2. Based on relationship One to Many.

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