

TOP 50 Power BI Interview Question and Answers

Power BI Basics

1. **What is Power BI?**
A data visualization and business intelligence tool.
2. **Difference between Desktop, Service, Mobile?**
 - **Desktop:** Build reports
 - **Service:** Share & collaborate
 - **Mobile:** View on devices
3. **What are dashboards?**
Single-page visuals pinned from reports.
4. **What are reports?**
Multi-page visuals built on a dataset.
5. **What are datasets?**
The data sources used to create reports.
6. **What is a workspace?**
A collaborative environment in Power BI Service.
7. **What is a tile?**
A pinned visual on a dashboard.

Data Loading & Modeling

8. **How to import data?**
Get Data → choose source → Load.
9. **Supported data sources?**
Excel, CSV, SQL, Web, SharePoint, APIs, etc.
10. **What is Power Query Editor?**
Interface for cleaning and transforming data.
11. **What is data modeling?**
Structuring tables and relationships.
12. **What are relationships?**
Logical connections between tables (e.g., Sales → Products).
13. **What is a star schema?**
A model with fact tables connected to dimension tables.

The only way to do great work is to love what you do.

- Steve Jobs

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14. Table vs query?

Queries prepare data; tables are loaded models.

15. What is cardinality?

Relationship type: one-to-one, one-to-many, many-to-many.

16. Cross-filter direction?

Determines how filters flow between tables.

Data Transformation

17. What is M language?

Power Query's scripting language.

18. What are applied steps?

Recorded transformations in Power Query.

19. How to remove duplicates?

Home → Remove Duplicates.

20. How to split columns?

Split by delimiter or number of characters.

21. Merge queries = ?

Joins two tables horizontally.

22. Append queries = ?

Stacks tables vertically.

23. What is data profiling?

Checking column quality, distribution, errors.

DAX Basics

24. What is DAX?

A formula language for calculations.

25. Measure vs. calculated column?

- **Measure:** Calculated at query time
- **Column:** Calculated row-by-row and stored

26. CALCULATE()?

Changes filter context for a calculation.

27. SUM()?

Adds values in a column.

28. SUMX()?

Iterates row by row and sums expressions.

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29. FILTER()?

Returns a table that meets conditions.

30. RELATED()?

Fetches values from related tables.

31. Row context vs filter context?

- Row context: Row-by-row evaluation
- Filter context: Filters applied to visuals/measures

Visualization

32. Types of visuals?

Bar, Line, Matrix, Card, Map, KPI, Donut, etc.

33. What are slicers?

Visual filters for reports.

34. Matrix visual?

Similar to Pivot Table (rows + columns + values).

35. Conditional formatting?

Colors/icons applied based on rules.

36. Drill-through?

Navigate to a detailed page filtered by selected value.

37. Drill-down?

View data at a more granular level.

38. Bookmarks?

Saved views of report states.

39. Custom visuals?

Third-party visuals imported from marketplace.

Power BI Service

40. How to publish a report?

Home → Publish.

41. What is a data gateway?

Lets Power BI access on-premise data.

42. What is scheduled refresh?

Automatic data updates.

43. Roles and permissions?

Admin, Member, Contributor, Viewer.

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44. What is RLS (Row-Level Security)?

Restricts data visibility for users.

Performance & Optimization

45. What is query folding?

Pushing transformations back to the data source for faster performance.

46. How to improve performance?

Reduce columns, use star schema, optimize DAX, avoid calculated columns where possible.

47. Import vs DirectQuery?

- Import: Data stored in Power BI (fast)
- DirectQuery: Live database connection (slow but real-time)

48. Why use star schema?

Better performance and cleaner relationships.

General

49. Difference between Power BI and Excel?

Excel: Spreadsheet analysis

Power BI: Interactive dashboards & BI modeling

50. Explain a project where you used Power BI.

(Your answer—describe data source, transformations, visuals, insights.)
