* **<https://www.testgorilla.com/blog/power-bi-interview-questions/>**

**Beginner-Level Questions**

1. **What is Power BI and how is it used?**  
   Power BI is a Microsoft data visualization tool that allows users to create interactive reports and dashboards. Interviewers may ask for a general explanation of its components (Power BI Desktop, Service, and Mobile).
2. **Explain the purpose of DAX in Power BI.**  
   DAX (Data Analysis Expressions) is the formula language in Power BI used to create calculated columns and measures, helping in complex calculations and aggregations.
3. **Describe the process of importing data in Power BI.**  
   Power BI’s “Get Data” feature allows connections to various sources like Excel, SQL databases, and cloud services. Explain the different modes (Import, DirectQuery, Live Connection) and their use cases.

**Intermediate-Level Questions**

1. **What are the most common DAX functions used in Power BI?**  
   Essential DAX functions include SUM, AVERAGE, CALCULATE, IF, and FILTER. Interviewers often ask for examples of how you use these functions in business scenarios, such as calculating yearly growth or filtering data for specific conditions.
2. **How does Power BI handle security?**  
   Power BI provides Row-Level Security (RLS), which restricts data access based on user roles. Candidates should explain how RLS is set up and discuss scenarios like limiting data visibility by department or region.
3. **What are the benefits of using Power Query?**  
   Power Query enables ETL (Extract, Transform, Load) operations, allowing data manipulation before analysis. It’s used for data cleansing, merging, filtering, and transforming data from multiple sources, making it crucial for data preparation.

**Advanced-Level Questions**

1. **Explain Query Folding in Power Query.**  
   Query Folding is the process by which Power Query optimizes data transformations by translating them into native SQL queries at the source. This enhances performance, especially when dealing with large datasets.
2. **What is DirectQuery, and when should it be used?**  
   DirectQuery enables real-time data querying directly from the source, suitable for large datasets. However, it has limitations like query performance issues, especially with complex visuals.
3. **How do you optimize Power BI report performance?**  
   Discussing performance optimization techniques like reducing visuals, using aggregations, limiting visuals with filters, and leveraging DAX efficiently can showcase advanced expertise.
4. **What is a Power BI Content Pack?**  
   A content pack is a package of dashboards, datasets, and reports designed for easy sharing within an organization. It enables standardization and consistency of data insights across teams.

Here are **70 frequently asked** Power BI interview questions categorized into **Fresher, Intermediate, and Advanced Levels**:

## ****🔹 Fresher Level (Basic Concepts)****

1. What is Power BI?
2. What are the key components of Power BI?
3. What are the different versions of Power BI?
4. Explain the difference between Power BI Desktop, Power BI Service, and Power BI Mobile.
5. What are the different types of data sources supported in Power BI?
6. What is Power Query in Power BI?
7. What is Power Pivot?
8. What is Power View?
9. What is Power Map?
10. What is a Power BI Report?
11. What is a Dashboard in Power BI, and how is it different from a report?
12. What is a Dataset in Power BI?
13. What are Visualizations in Power BI?
14. What are the different types of filters in Power BI?
15. What are Measures and Calculated Columns in Power BI?
16. What is DAX in Power BI?
17. Explain the difference between Direct Query and Import Mode.
18. What is Drillthrough in Power BI?
19. What is the use of Bookmarks in Power BI?
20. What is Data Modeling in Power BI?

## ****🔹 Intermediate Level (Data Modeling & DAX)****

1. What are the different types of relationships in Power BI?
2. What is a Star Schema and Snowflake Schema?
3. Explain Many-to-One, One-to-Many, and Many-to-Many relationships in Power BI.
4. How do you create a Hierarchy in Power BI?
5. What is the role of Fact and Dimension tables in Power BI?
6. What is the difference between SUM, SUMX, and CALCULATE in DAX?
7. How does the FILTER function work in DAX?
8. What is the difference between ALL and ALLEXCEPT in DAX?
9. What is the difference between RELATED and RELATEDTABLE in Power BI?
10. How does the RANKX function work in DAX?
11. What is the use of the SWITCH function in Power BI?
12. What is the use of the LOOKUPVALUE function?
13. What is the difference between EARLIER and EARLIEST functions in DAX?
14. What are the different types of joins in Power BI?
15. What is the purpose of the USERELATIONSHIP function?
16. What is Row-Level Security (RLS) in Power BI, and how does it work?
17. What is the use of the TOPN function in Power BI?
18. What is the difference between the DISTINCT and VALUES functions?
19. How does the BLANK function work in Power BI?
20. What is the purpose of the CONCATENATEX function?

## ****🔹 Advanced Level (Performance Optimization & Best Practices)****

1. How do you improve Power BI report performance?
2. What are Aggregations in Power BI?
3. What is Incremental Refresh in Power BI?
4. How does Composite Modeling work in Power BI?
5. What is the difference between Static and Dynamic RLS?
6. What is the purpose of the ISINSCOPE function?
7. What is the difference between SUMX and CALCULATE(SUM(...))?
8. What is the difference between SELECTEDVALUE and VALUES in DAX?
9. How does the VAR function improve DAX performance?
10. What is the difference between ISFILTERED and HASONEVALUE?
11. How do you use **ALLSELECTED** in Power BI?
12. What is the difference between **MERGE and APPEND** in Power Query?
13. How do you create a dynamic Top N report in Power BI?
14. What is the difference between the UNION and INTERSECT functions in DAX?
15. What is the use of the GENERATE function in Power BI?
16. How do you handle circular dependencies in DAX?
17. What is the difference between Parallel Period and Same Period Last Year in DAX?
18. What are Calculation Groups in Power BI?
19. How does the **TREATAS** function work in Power BI?
20. What is **Hybrid Tables**, and how does it work in Power BI?
21. How do you optimize a large dataset in Power BI?
22. What is Query Folding in Power BI?
23. How do you handle **Many-to-Many relationships** in Power BI?
24. How do you schedule data refresh in Power BI Service?
25. What is the difference between PPU (Premium Per User) and Power BI Pro?
26. How does Dataflows work in Power BI?
27. What is XMLA endpoint in Power BI?
28. How do you use **Field Parameters** in Power BI?
29. How do you implement **What-If Analysis** in Power BI?
30. What is **Paginated Reports**, and when should you use them?

## ****🚀 Bonus Tips for Cracking a Power BI Interview****

✔ **Be Hands-On**: Create sample reports, work with **DAX, relationships, Power Query**  
✔ **Understand Data Modeling**: Learn how to design **Fact & Dimension tables**  
✔ **Practice Optimization**: Learn how to improve report **performance & efficiency**  
✔ **Use Power BI Service**: Understand **Gateways, Sharing, RLS, and Dataflows**  
✔ **Work on Real Projects**: Showcase practical experience

Would you like me to create a **sample dataset** for interview practice? 🚀😊

* **<https://www.testgorilla.com/blog/power-bi-interview-questions/>**
* **<https://www.interviewbit.com/power-bi-interview-questions/>**
* **<https://www.xelplus.com/power-bi-interview-questions/>**
* **<https://github.com/virajbhutada/PowerBI-Resources>**
* **<https://github.com/NajiElKotob/Awesome-Power-BI?tab=readme-ov-file>**

**Power BI Fresher Mock Interview Answers <https://youtu.be/Jk6bowQFZ7s?si=UMyW4KnozWo7BfN1>**

<https://youtu.be/u7yAypveDRo?si=cL8t83Dnbc35Qx8j> **Live Interview of a Fresher | Power BI😲**

LearnWidGiggs for interview power bi questions

**From SQL to DAX: <https://www.youtube.com/watch?v=L34dnGDuQ6I>**

**Power BI Interview Questions <https://youtube.com/playlist?list=PL5ieZS0EBnz7naSsBs6YSvLetYVqwOmeK&si=pFqyBoj_4ysROVjz>**

**Power BI Scenario based interview questions with solution <https://youtu.be/bBYIvOytMwo?si=ORmADhL-sZc6jnGa>   
Power BI Interview Questions <https://youtube.com/playlist?list=PLO9LeSU_vHCUAh-OkfoKUx6PlNJHAxgCK&si=5BJJe8-ZFlZPzjS->**

**complete Power Bi Interview Q & A For Freshers**

**<https://www.youtube.com/watch?v=g0ZbMqjvjyI>**

**Power BI Mock Interview Answers**

**<https://www.youtube.com/watch?v=yFKg2aF6L-E>**

**Power bi case study asked**

**<https://youtu.be/yhm7mvJKPMg?si=_p5B361fbMcDTFng>**