400 + Power BI Developer / Data Analyst Interview Questions!

Power BI Interview Questions Asked Deloitte 1st Round

1. Self Introduction.
2. Which visuals have you used in your projects?
3. Can you describe your client project?
4. What was your role in the project?
5. What are the key components of Power BI?
6. What is the difference between DATESBETWEEN and DATESINPERIOD functions?
7. Have you used row-level security in your project? Explain in detail.
8. Did you have access to a premium Power BI account?
9. Provide a brief explanation of bookmarks with a scenario-based example.
10. What is cardinality, and what are its types?
11. What are dimension tables and fact tables?
12. Which data source did you use in your project, and what is the size of the data?
13. If your PBIX file is slow to load, what could be the cause, and how would you improve its performance?
14. What is incremental refresh? Please explain briefly. Have you worked on it?
15. What is a Gateway, and what are its types?
16. Explain the types of joins in Power BI.
17. How do you handle data modeling in Power BI?
18. What are the different types of filters in Power BI?
19. How do you create calculated columns and measures in Power BI?
20. What is the difference between a dashboard and a report in Power BI?
21. Can you explain the concept of Power Query?
22. How do you implement drill-through functionality in Power BI?
23. How do you optimize performance in Power BI?
24. How do you use the Q&A feature in Power BI?
25. How do you manage large datasets in Power BI?
26. How do you handle relationships with many-to-many cardinality?
27. What challenges have you faced while working with Power BI?

Power BI and SQL Top 60+ commonly asked Interview Questions!

General Data Concepts

1. What is ETL concept?
2. Types of analysis?
3. Difference between Data Lake vs Data Warehouse vs Data Mart?
4. What is a Star Schema vs Snowflake Schema?
5. What's the difference between Fact and Dimension Tables?

6. Difference between Data Lake vs Data Warehouse?

8. What is the difference between structured and unstructured data?

9.What are Data Marts, and how do they differ from Data Warehouses?

9. Difference between OLTP vs OLAP?

10. What's the difference between Type 1 and Type 2 Slowly Changing
 Dimensions (SCDs)?

SQL Questions

1. Difference between Delete, Drop & Truncate?

2. What is Constraints and its types?

4. Difference between Union & Union All?

5. How many types of joins in SQL? Explain.

6. How to find 3rd Highest Salary?

7. Remove the Duplicate records from table.

8. Difference between Union & Union All?

9. What is Constraints and its types?

10. Difference between CHAR & VARCHAR?

11. Subsets in SQL?

12. Explain the concepts of Window Functions?

13. Find 2nd Highest Salary?

14. What is Stored Procedure & Views?

15. What are Indexing, its types and use?

15. Difference between Stored Procedure & Functions?

16. Explain differences between temp table and CTE?

17. Explain differences between local temp table and global temp table?

18. What is CTE? Why do we use it?

19. Difference between Having and Group by clause?

20. What is Primary key and Foreign key in SQL?

21. Explain the concept of normalization and its types (1NF, 2NF, 3NF).

Power BI Questions

1. Describe your most recent project and your contributions.

2. Difference between calculated columns and measures?

3. Challenges faced in Power BI projects?

4. Visuals used in your projects?

5. What is Power Query? what we can do from that.

6. Difference between Append and Merge?

7. How many types of Views in Power BI? Explain.

8. How can data be imported into Power BI?

9. How will you join two tables with the help of DAX functions?

10. Difference between dashboard and report?

11. Explain the concepts of Data Modeling?

12. Difference between SUM and SUMX?

13. Difference between Duplicate & Reference?

14. Difference between Import Mode & Direct Query?

15. Difference Slicer & Filter?

16. Difference between Drilldown and DrillThrough in Power BI?

17. Can you explain bookmarks and their use cases in Power BI?

18. How do you manage large datasets in Power BI?

19. How will you handle missing data or dirty data in Power BI?

20. What is Index column and why we will use in Power BI?

21. Which type of Power BI Account you used in Project?

22. What is Row Level Security in Power BI?

23. Difference between a pie chart and a donut chart?

24. Concept of conditional formatting in Power BI?

25. Difference between Power BI Desktop and Power BI Service?

26. What is Summarize DAX?

27. Major components of Power BI?

29. Building blocks of Power BI?

30. What is Workspace & App?

Common Power BI Interview Questions

Power Query Editor (built-in ETL)

1. What you done your project and what is your roles & responsibilities?

2. What are the transformations used in your project?

3. What are the different sources you have used in your project?

4. What is difference between Import Mode and Direct Query?

5. What is Fact table and Dimension table?

6. Difference between Star Schema and Snowflake Schema?

7. What is Merge and Append in power query editor?

8. What are the building blocks of Power BI?

9. What is Query Folding in Power Query?

10. What is Power BI Q&A?

11. What are the components of Power BI?

12. What is Conditional Formatting in Power BI?

13. How do you handle errors in Power Query?

14. Three processes to replace replaces null values?

15. Difference between referencing and duplicating a query in Power Query.

16. What is the M language, and how does it relate to Power Query?

17. How do you schedule data refreshes in Power Query?

18. What are custom columns in Power Query, and how do you create them?

19. What is the 'Group By' function in Power Query, and how is it used?

20. Explain how to remove duplicates from a dataset in Power Query.

Power View / Power BI Desktop

1. What are the charts you have used in your project?

2. Any Custom Charts have you used?

3. What is difference between Filters and Slicers?

4. What is Bookmarks in Power BI?

5. How can you make your reports dynamic?

6. Types of relationship in Power BI?

7. What are Drill Through and Drilldown in Power BI?

8. How do you optimize the performance of a Power BI report?

9. How do you handle large datasets in Power BI Desktop?

10. Difference between Tile vs Report vs Dashboard ?

11. Difference between Drill down vs Drill Through?

DAX

1. What is difference between Measures and Calculated Column?

2. What are DAX functions you have used in your project?

3. What is difference between SUM and SUMX?

4. What is use case of SUMMARIZE function?

5. What is ALL and ALLEXCEPT function?

6. What is the need of Data Master Table?

7. Can you explain use case of SAMEPERIODLASTYEAR?

8. What is Row Context in DAX?

9. What do you mean by MTD , QTD & YTD?

10. Difference between Sum vs SumX?

Power BI Services

1. Which Power BI License you have used in your project?

2. What is Difference between MyWorkspace and Workspace?

3. What are the roles available in workspace?

4. What is RLS?

5. What is Gateway? How many types?

6. Difference between Report and Dashboard?

7. How can you refresh data in Power BI?

8. Explain the concept of Scheduled Refresh and Incremental Refresh?

9. What is Dataflow?

10. How do you share Power BI reports with external users?

11. How do you schedule automatic data refresh in Power BI Service?

12. Types of roles in Power BI Service?

13. How do you set up incremental refresh in Power BI Service?

Power BI Developer / Data Analyst Interview Questions

Cencora

1. Power BI report Vs Power BI dashboard?

2. How do you handle data source connection issues in Power BI?

3. What is DAX and how is it used in Power BI?

4. Explain the concept of data modeling in Power BI.
5. How do you optimize Power BI report performance?
6. What are calculated columns and measures in Power BI?
7. Describe a scenario where you used Power Query to transform data.
8. How do you implement row-level security in Power BI?
9. What are Power BI datasets, and how do they differ from data sources?
10. How do you use Power BI's Q&A feature?
11. How do you handle data refresh issues in Power BI?
12. You have a Power BI report that is running slowly. What steps would you
 take to diagnose and improve its performance?
13. How to combine data from various sources in a single report?
14. Difference Sum and SumX?
15. Difference between calculate column and measures?
16. Difference between Having and Where Clause?

Wipro

1. What are the different types of filters available in Power BI?
2. How do you create a Power BI custom visual?
3. Explain the role of Power BI Service.
4. What are bookmarks in Power BI, and how do you use them?
5. How do you create a calculated table in Power BI?
6. What is the importance of relationships in Power BI data modeling?
7. How do you handle large datasets in Power BI?
8. Describe how to use Power BI with Azure services.
9. What are the advantages of using Power BI over Excel for reporting?
10. How do you publish and share Power BI reports?
11. How do you manage Power BI report subscriptions and alerts?
12. How will you join 2 table in power query?
13. You are working with a large dataset that causes Power BI to crash when
 Loading. What techniques would you use to handle and analyze the data
 Efficiently?

HCL

1. How do you create and manage Power BI workspaces?
2. Explain the difference between direct query and import mode in Power BI.
3. What is a Power BI dataflow, and how is it used?
4. How do you troubleshoot common Power BI errors?
5. What are the best practices for designing Power BI dashboards?
6. How do you integrate Power BI with other Microsoft services?
7. Describe a scenario where you used Power BI to provide business insights.
8. How do you set up data alerts in Power BI?
9. What are the key components of a Power BI report?
10. How do you secure sensitive data in Power BI reports?
11. You encounter a data integrity issue where some records are duplicated

In the dataset. How would you resolve this in Power BI?

12. Difference between Import Mode and Direct Query Mode?

13. How the end user access the report?

14. What is RANK & DENSE RANK in SQL?

Today's Power BI Questions Asked #ScatterPie Analytics 1st Round

1. Walk me through your profile

2. How many dashboards have you developed so far?

3. Describe the project development process: How is the data sourced? How do you read and process the data? How do you gather requirements and define KPIs?

4. What is your role in that workspace?

5. What is Row Level Security give me the examples when we use static and dynamic RLS?

6. Suppose I have a user with a Member role in my workspace, and I've applied RLS. Will RLS work for this user or not?

7. Why do we need a master calendar while developing reports? Why is the date master calendar table used with always dimensions and not with fact tables?

8. Difference between Measure and Calculated Column?

9. Difference between Having and Where Clause?

10. Consider the following scenario:

You have sales data with two columns: Category and Sales.

You create: a. A measure: Measure = SUM(Sales)

b. A calculated column: Column = SUM(Sales)

You drag both the measure and the calculated column into a table visual alongside Category. What will be the output for the measure and the calculated column?

11. In the same table I want to create a measure where in i want to show the data of only A category i have A,B,C and D. I just want to show the sales of category A only tell me the DAX formula that?

12. Now, if a City column is added to the same table visual, how will the output change?

13. What is Dataverse, and what is Power Automate?

14. What is difference between Star schema & Snowflake schema and how will know when to use which schemas respectively?

15. While importing data from SQL with millions of rows and a heavy table, what techniques did you use to reduce the load in Power BI?

16. What difficult challenges you have faced while doing project?

17. Do you have any questions?

Data Analyst Interview Questions Asked #UST 1st Round

1. Self Introduction

2. Which data sources have you used in your projects?

3. What is DAX? Explain it in detail.

4. What is the difference between a Dimension and a Measure in Power BI?

5. What types of DAX functions have you used in your projects?

6. What is the difference between the MAX and MAXX aggregate functions?

7. How does the SUM function differ from the SUMX function in Power BI?

8. If there are four categories (A, B, C, D) and a sales column in a table, how can you find the sales for

category A?

9. In a Matrix visual, if you insert a column for Category A and its sales, and add a third column for Country, with a total of 4 countries, how will the output appear in the matrix?

10. Write a SQL query to retrieve the following details:

Region, Category, Total Sales Amount, Average Sales Amount. Month with the Highest Sales

Use the sales, products, and customers tables. Group the results by region and category, and ensure the query calculates the required metrics correctly.

Top 30 Interview Questions for Power BI and SQL

1. Can you briefly tell me about yourself, the projects you have worked on, the technology you have used, and your day-to-day responsibilities in your current project?

2. Suppose there is a large query with multiple joins and logic written within it, which used to execute in 10 to 15 minutes but has recently started taking more than 30 minutes. What would be your approach to diagnose and resolve this issue? What would you look into within the query to identify what might have changed?

3. Can you explain the types of indexes available in SQL and how they work? How many types of indexes are supported by SQL?

4. What are DDL, DML and DQL commands in the SQL?

5. Suppose there is an organization with an employee table containing employee ID, employee name, department, and salary. How would you find the 5th highest salary in that table?

6. Difference between Rank and Dense Rank function?

7. How do you calculate the number of years an employee has spent in the current organization using DAX in Power BI?

8. Suppose you have two fact tables, Fact A and Fact B, and three dimension tables, Dimension A, Dimension B, and Dimension C. Fact A is connected to all three dimension tables, and Fact B is also connected to the same three dimension tables. How can you establish a relationship between Fact A and Fact B?

9. Difference between Calculated Column and Measure?

10. Difference between Table and Matrix in Power BI?

11. If I have 2 tables in data modeling in power bi and relationship between them is many to many how i can avoid that?

12. Explain me the scenario and please provide me the best optimized solution to handle this. Let's say you have 100 excel files, each and every Excel file is meant for each and everyday sales data or order data?

13. How many types of Active Relationship in Power BI?

14. Can you please tell me why we would used dateadd function Power BI?

15. Can you tell me the SUM and SUMX difference in Power BI?

16. Have you used custom visual charts?

17. What is difference between Direct Query and Live Connection?

18. Are you aware about Microsoft Fabric?

19. Major challenges you have faced in current Power BI Projects?

20. How you have used Power BI Service for what purpose?

21. How you deployed report from one environment to Another?

22. Can you please tell me workspace management?

23. What are the different versions of Power BI?

24. Have you ever faced a failure due to data type errors? Can you share any experiences related to this?

25. Have you used Power Automate and Power Apps?

26. When you gathering the requirement from the client what is your go to approach?

27. Have you worked with data flows?

28. What kind of changes you are doing when once report back to your end from client?

29. What types of transformations have you applied in your reports or data models?

30. Can you name some important KPIs for the insurance and sales domains?

90% Asked Power BI Interview Questions 1st Round

1. Tell me about yourself

2. Difference between Calculated Columns and Measures?

3. How to handle missing values?

4. Difference between SUM and SUMX?

5. What is DAX and give an example? which DAX did you used in while doing project?

6. How do you disable a graph that is changing dynamically?

7. Explain RLS (Row Level Security) and how do you implement RLS?

8. Types of filters in Power BI?

9. Difference between Drill Down and Drill Through?

10. Explain the process of publishing the report?

11. How to create relationships in Power BI ? Types of Cardinality?

12. How to schedule refresh in Power BI?

13. Which type of account you have while doing a project? explain the features?

14. How to perform Join operations?

15. What are the good practices in Power BI?

16. Explain me about your latest power bi project?

17. Difference between Slicer and Filter?

Top 10 Scenario Based Questions

1. How to optimize a Power BI Report for performance?

2. How do you optimize a power bi report that takes a long time to load?

3. How to deal with Power BI Report refresh issues?

4. How do you integrate power bi into various data sources?

5. You have multiple regional sales team each team needs to access the data specific to their region but they shouldn't have the visibility of the data of the another region?

6. You get complaints from users that they see wrong data how do you debunk the issue?

7. Your team is working on a multiple reports that accesses 10-15 tables imagine you have 10 reports now each report is using some redundant tables?

8. How to train your team to write proper DAX queries?

9. How to handle a data transformation project from scratch?

10. How to do a near real time project?

11. How to handle large datasets?

12. Challenges faced while doing a projects?

Top 5 Power BI Interview Questions

Q 1. Suppose Scheduled refresh took yesterday 10 min to refresh & today took more 30 min, also all internet, credentials and all other settings are ok then what was reason for it?

Q 2. Your PBIX file is not getting published, what are the reasons?

Q 3.Why is my Power BI report slow in Power BI Service?

Q 4. Why is your Power BI dataset refresh failing intermittently?

Q 5. Why are your Power BI visuals not updating after the data refresh?

Commonly Asked Power BI Service Interview Questions

1. License types in Power BI Service and the one you've used?

2. Types of roles in Power BI Service and your assigned role?

3. How do you schedule a data refresh in Power BI Service?

4. What is a data gateway, and what are its types?

5. Difference between workspace and apps and usage of apps?

6. RLS and it's type. How to implement RLS with organizational hierarchy?

7. What is dataflow in Power BI service and why it's used?

8. Deployment pipelines in Power BI service and it's usage in real time scenario?

9. How to create reports and dashboards in Power BI service?

10. How do you manage workspace permissions and roles effectively?

11. How to configure incremental data refresh for large datasets?

12. Differences between Power BI Service and Power BI Desktop?

13. What is the purpose of sensitivity labels in Power BI Service?

14. Setting up data alerts in dashboards and their use cases?

15. Configuring tenant settings and their impact on users.