1. What is Power BI?

Power BI is a [business analytics tool](https://www.simplilearn.com/business-analytics-tools-article)developed by Microsoft that helps you turn multiple unrelated data sources into valuable and interactive insights. These data may be in the form of an Excel spreadsheet or cloud-based/on-premises hybrid [data warehouses](https://www.simplilearn.com/data-warehouse-article). You can easily connect to all your data sources and share the insights with anyone.

2. Why should we use Power BI?

Because Power BI provides an easy way for anyone, including non-technical people, to connect, change, and visualize their raw business data from many different sources and turn it into valuable data that makes it easy to make smart business decisions.

3. Difference between Power BI and Tableau

Both [Tableau](https://www.simplilearn.com/learn-tableau-tips-to-start-article) and Power BI are the current IT industry's [data analytics](https://www.simplilearn.com/what-does-a-data-analyst-do-article) and visualization giants. Yet, there are a few significant differences between them. You will now explore the important differences between Tableau and Power BI.

|  |  |
| --- | --- |
| Tableau | Power BI |
| Tableau uses MDX for measures and dimensions | Power BI uses DAX for calculating measures |
| Tableau is capable of handling large volumes of data | Power BI is qualified only to handle a limited amount of data |
| Tableau is best suitable for experts | Power BI is suitable for both experts and beginners |
| Tableau User Interface is complicated | Power BI User Interface is comparatively simpler |
| Tableau is capable of supporting the cloud with ease. | Power BI finds it difficult, as its capacity to handle large volumes of data is limited. |

4. Difference between Power Query and Power Pivot

The differences between Power Query and Power Pivot are explained as follows:

|  |  |
| --- | --- |
| Power Query | Power Pivot |
| [Power Query](https://www.simplilearn.com/tutorials/excel-tutorial/power-query-in-excel) is all about analyzing data. | [Power Pivot](https://www.simplilearn.com/tutorials/excel-tutorial/excel-power-pivot) is all about getting and Transforming data. |
| Power Query is an ETL service tool. | Power Pivot is an in-memory data modeling component |

5. What is Power BI Desktop

Power BI Desktop is an open-source application designed and developed by Microsoft. Power BI Desktop will allow users to connect to, transform, and visualize your data with ease. Power BI Desktop lets users build visuals and collections of visuals that can be shared as reports with your colleagues or your clients in your organization.

6. What is Power Pivot?

Power Pivot is an add-on provided by Microsoft for Excel since 2010. Power Pivot was designed to extend the analytical capabilities and services of Microsoft Excel.

7. What is Power Query?

[Power Query](https://www.simplilearn.com/tutorials/excel-tutorial/power-query-in-excel) is a business intelligence tool designed by Microsoft for Excel. Power Query allows you to import data from various data sources and will enable you to clean, transform and reshape your data as per the requirements. Power Query allows you to write your query once and then run it with a simple refresh.

8. Describe the components of Microsoft’s self-service BI solution.

Self-service business intelligence (SSBI) is divided into the Excel BI Toolkit and Power BI.

9. What is self-service BI, anyway?

SSBI is an abbreviation for Self-Service Business Intelligence and is a breakthrough in business intelligence. SSBI has enabled many business professionals with no technical or [coding](https://www.simplilearn.com/tutorials/programming-tutorial/coding-for-beginners) background to use Power BI and generate reports and draw predictions successfully. Even non-technical users can create these dashboards to help their business make more informed decisions.

10. What is DAX?

DAX stands for Data Analysis Expressions. It's a collection of functions, operators, and constants used in formulas to calculate and return values. In other words, it helps you create new info from data you already have.

11. What are Filters in Power BI?

The term "Filter" is self-explanatory. Filters are mathematical and logical conditions applied to data to filter out essential information in rows and columns. The following are the variety of filters available in Power BI:

* Manual filters
* Auto filters
* Include/Exclude filters
* Drill-down filters
* Cross Drill filters
* Drillthrough filters
* Drillthrough filters
* URL filters–transient
* Pass-Through filters

12. What are Custom Visuals in Power BI?

Custom Visuals are like any other [visualizations](https://www.simplilearn.com/10-data-visualization-projects-for-every-data-science-geek-article), generated using Power BI. The only difference is that it developes the custom visuals using a custom SDK. The languages like [JQuery and JavaScript](https://www.simplilearn.com/jquery-vs-javascript-article) are used to create custom visuals in Power BI.

13. What is GetData in Power BI?

Get Data is a simple icon on Power BI used to import data from the source.

14. Mention some advantages of Power BI.

Some of the advantages of using Power BI:

* It helps build an interactable [data visualization](https://www.simplilearn.com/data-visualization-article) in data centers
* It allows users to transform data into visuals and share them with anyone
* It establishes a connection for Excel queries and dashboards for fast analysis
* It provides quick and accurate solutions
* It enables users to perform queries on reports using simple English words

15. List out some drawbacks/limitations of using Power BI.

Here are some limitations to using Power BI:

* Power BI does not accept file sizes larger than 1 GB and doesn't mix imported data accessed from real-time connections.
* There are very few data sources that allow real-time connections to Power BI reports and dashboards.
* It only shares dashboards and reports with users logged in with the same email address.
* Dashboard doesn't accept or pass user, account, or other entity parameters.

16. What are some differences in data modeling between Power BI Desktop and Power Pivot for Excel?

Power Pivot for [Excel](https://www.simplilearn.com/9-ways-to-improve-microsoft-excel-skills-article) supports only single directional relationships (one to many), calculated columns, and one import mode. Power BI Desktop supports bi-directional cross-filtering connections, security, calculated tables, and multiple import options.

17. Name the different connectivity modes available in Power BI?

There are three main connectivity modes used in Power BI.

SQL Server Import

An [SQL](https://www.simplilearn.com/tutorials/sql-tutorial/what-is-sql) Server Import is the default and most common connectivity type used in Power BI. It allows you to use the full capabilities of the Power BI Desktop.

Direct Query

The Direct Query connection type is only available when you connect to specific data sources. In this connectivity type, Power BI will only store the metadata of the underlying data and not the actual data.

Live Connection

With this connectivity type, it does not store data in the Power BI model. All interaction with a report using a Live Connection will directly query the existing Analysis Services model. There are only 3 data sources that support the live connection method - SQL Server Analysis Services (Tabular models and Multidimensional Cubes), Azure Analysis Services (Tabular Models), and Power BI Datasets hosted in the Power BI Service.

18. What are the various types of refresh options provided in Power BI?

Four important types of refresh options provided in Microsoft Power BI are as follows:

* Package refresh - This synchronizes your Power BI Desktop or Excel file between the Power BI service and OneDrive, or SharePoint Online.
* Model or data refresh - This refreshes the dataset within the Power BI service with data from the original data source.
* Tile refresh - This updates the cache for tile visuals every 15 minutes on the dashboard once data changes.
* Visual container refresh - This refreshes the visible container and updates the cached report visuals within a report once the data changes.

19. Name the data sources can Power BI can connect to?

Several data sources can be connected to Power BI, which is grouped into three main types:

* Files

It can import data from Excel (.xlsx, .xlxm), Power BI Desktop files (.pbix) and Comma-Separated Values (.csv).

* Content Packs

These are a collection of related documents or files stored as a group. There are two types of content packs in Power BI:

* Content packs from services providers like Google Analytics, Marketo, or Salesforce and Content packs are created and shared by other users in your organization.
* Connectors

Connectors help you connect your databases and datasets with apps, services, and data in the cloud.

20. What is a dashboard in Power BI?

A dashboard is a single-layer presentation sheet of multiple visualizations reports. The main features of the [Power BI dashboard](https://www.simplilearn.com/tutorials/power-bi-tutorial/power-bi-dashboard) are:

* It allows you to drill through the page, bookmarks, and selection pane and also lets you create various tiles and integrate URLs
* A dashboard can also help you set report layout to mobile view.

21. Explain how relationships are defined in Power BI Desktop?

Relationships between tables are defined in two ways:

* Manually - Relationships between tables are manually defined using primary and foreign keys.
* Automatic - When enabled, this automated feature of Power BI detects relationships between tables and creates them automatically.

22. Can you have more than one functional relationship between two tables in a Power Pivot data model?

No. There can be multiple inactive relationships, but only one active relationship between two tables in a Power Pivot data model. Dotted lines represent inactive relationships, and continuous lines represent active relationships.

23. Can you have a table in the model which does not have any relationship with other tables?

Yes. There are two main reasons why you can have disconnected tables:

* The table is used to present the user with parameter values to be exposed and selected in slicers
* It uses the table as a placeholder for metrics in the user interface

24. What is the CALCULATE function in DAX?

The CALCULATE function evaluates the sum of the Sales table Sales Amount column in a modified filter context. It is also the only function that allows users to modify the filter context of measures or tables.

Moving ahead, you will step up to the following Power BI Interview Questions from the Intermediate Level.

25. Where is data stored in Power BI?

Most of the time, power BI gets assisted by the cloud to store the data. Power BI can use a desktop service. Microsoft Azure is used as the primary cloud service to store the data.

1. Azure SQL Database
2. Azure Blob Storage

26. What is row-level security?

Row-level security limits the data a user can view and has access to, and it relies on filters. Users can define the rules and roles in Power BI Desktop and also publish them to Power BI Service to configure row-level security.

27. Why should you apply general formatting to Power BI data?

Users can use general formatting to make it easier for Power BI to categorize and identify data, making it considerably easier to work with.

28. What are the different views available in Power BI Desktop?

There are three different views in Power BI, each of which serves another purpose:

Report View - In this view, users can add visualizations and additional report pages and publish the same on the portal.

Data View - In this view, data shaping can be performed using Query Editor tools.

Model View - In this view, users can manage relationships between complex datasets.

[**View Program**](javascript:void(0))

29. What are the various versions of Power BI?

* Power BI Desktop
* Power BI service
* Mobile Power BI apps for iOS and Android devices

30. Explain the building blocks of Microsoft Power BI.

The important building blocks of Power BI are as follows:

Visualizations

Visualization is the process of generating charts and graphs for the representation of insights on business data.

Datasets

A dataset is the collection of data used to create a visualization, such as a column of sales figures. Dataset can get combined and filtered from a variety of sources via built-in data plugins.

Reports

The final stage is the report stage. Here, there is a group of visualizations on one or more pages. For example, charts and maps are combined to make a final report.

Dashboards

A Power BI dashboard helps you to share a single visualization with colleagues and clients to view your final dashboard.

Tiles

A tile is an individual visualization on your final dashboard or one of your charts in your final report.

31. What are the critical components of the Power BI toolkit?

The critical components of Power BI are mentioned below.

* Power Query
* Power Pivot
* Power View
* Power Map
* Power Q&A

32. What do you mean by the content pack?

A content pack is defined as a ready-made collection of visualizations and Power BI reports using your chosen service. You'd use a content pack when you want to get up and running quickly instead of creating a report from scratch.

33. Define bi-directional cross filtering.

Bidirectional cross-filtering lets data modelers to decide how they want their Power BI Desktop filters to flow for data, using the relationships between tables. The filter context is transmitted to a second related table that exists on the other side of any given table relationship. This procedure helps data modelers solve the many-to-many issue without having to complicated DAX formulas. So, to sum it up, bidirectional cross-filtering makes the job for data modelers easier.

34. What are the three fundamental concepts of DAX?

Syntax

This is how the formula is written—that is, the elements that comprise it. The Syntax includes functions such as SUM (used when you want to add figures). If the Syntax isn't correct, you'll get an error message.

Functions

These are formulas that use specific values (also known as arguments) in a particular order to perform a calculation, similar to the functions in Excel. The categories of functions are date/time, time intelligence, information, logical, mathematical, statistical, text, parent/child, and others.

Context

There are two types: row context and filter context. Row context comes into play whenever a formula has a function that applies filters to identify a single row in a table. When one or more filters are applied in a calculation that determines a result or value, the filter context comes into play.

35. Why and how would you use a custom visual file?

You will use a custom visual file if the prepackaged files don't fit the needs of your business. Developers create custom visual files, and you can import them and use them in the same way as you would the prepackaged files.

36. What are some familiar sources for data in the Get Data menu in Power BI?

A few familiar data sources are Excel, Power BI datasets, web, text, SQL server, and analysis services.

37. What are the categories of data types?

* All
* File
* Database
* Power BI
* Azure
* Online Services
* Other

38. Name some commonly used tasks in the Query Editor.

* Connect to data
* Shape and combine data
* Group rows
* Pivot columns
* Create custom columns
* Query formulas

39. What do you mean by grouping?

Power BI Desktop helps you to group the data in your visuals into chunks. You can, however, define your groups and bins. For grouping, use Ctrl + click to select multiple elements in the visual. Right-click one of those elements and, from the menu that appears, choose Group. In the Groups window, you can create new groups or modify existing ones.

40. Explain responsive slicers in Power BI.

On a Power BI final report page, a developer can resize a responsive slicer to various sizes and shapes, and the data collected in the container will be rearranged to find a match. If a visual report becomes too small to be useful, an icon representing the visual takes its place, saving space on the report page.

41. What is query folding in Power BI?

Query folding is used when steps defined in the Query Editor are translated into SQL and executed by the source database instead of your device. It helps with scalability and efficient processing.

42. What is "M language."

M is a programming language used in Power Query as a functional, case-sensitive language similar to other programming languages and easy to use.

Power BI Interview Questions For Experienced

43. What are the major differences between visual-level, page-level, and report-level filters in Power BI?

Visual-level filters are used to filter data within a single visualization. Page-level filters are used to work on an entire page in a report, and different pages can have various filters.

Report-level filters are used to filter all the visualizations and pages in the report.

44. List the most common techniques for data shaping.

* Adding indexes
* Applying a sort order
* Removing columns and rows

45. How is the Schedule Refresh feature designed to work?

Users can set up for an automatic refresh over data based on daily or weekly requirements. Users can schedule only one refresh maximum daily unless they have Power BI Pro. The Schedule Refresh section uses the pull-down menu choices to select a frequency, time zone, and time of day.

46. What information is needed to create a map in Power Map?

Power Map can display geographical visualizations. Therefore, some location data is needed—for example, city, state, country, or latitude and longitude.

47. Which in-memory analytics engine does Power Pivot use?

Power Pivot uses the xVelocity engine. xVelocity can handle huge amounts of data, storing data in columnar databases. All data gets loaded into RAM memory when you use in-memory analytics, which boosts the processing speed.

48. Mention important components of SSAS

Following are some of the important Components of SSAS:

OLP Engine

An OLAP Engine is used to extensively run the ADHOC queries at a faster pace by the end-users

Data Drilling

It describes data Drilling in SSAS as the process of exploring details of the data with multiple levels of granularity.

Slicers

The data Slicing process in SSAS is defined as the process of storing the data in rows and columns.

Pivot Tables

Pivot Tables helps in switching between the  different categories of data stored between rows and columns

49. What are the three fundamental concepts of DAX?

1. Syntax: This is how the formula is written—the elements that comprise it. The syntax includes functions such as SUM (used when you want to add figures). If the syntax isn't correct, you'll get an error message.
2. Functions: These are formulas that use specific values (also known as arguments) in a certain order to perform a calculation, similar to the functions in Excel. The categories of functions are date/time, time intelligence, information, logical, mathematical, statistical, text, parent/child, and others.
3. Context: There are two types: row context and filter context. Row context comes into play whenever a formula has a function that applies filters to identify a single row in a table. When one or more filters are applied in a calculation that determines a result or value, the filter context comes into play.

50. Name the variety of Power BI Formats.

Power BI is available mainly in three formats, as mentioned below.

1. Power BI Desktop: Open-Source version for Desktop users
2. Power BI Services: For Online Services
3. Power BI Mobile Application: Compatible with mobile devices

51. What are the different stages in the working of Power BI?

There are three different stages in working on Power BI, as explained below.

1. Data Integration
2. Data Processing
3. Data Presentation

Data Integration

The primary step in any business intelligence is to establish a successful connection with the data source and integrate it to extract data for processing.

Data Processing

The next step in business intelligence is [data processing](https://www.simplilearn.com/what-is-data-processing-article). Most of the time, the raw data also includes unexpected erroneous data, or sometimes a few data cells might be empty. The BI tool needs to interpret the missing values and inaccurate data for processing in the data processing stage.

Data Presentation

The final stage in business intelligence is analyzing the data got from the source and presenting the insights using visually appealing graphs and interactive dashboards.

52. Which professionals use Power BI the most?

Beginners and experts prefer Power BI in business intelligence. Power BI is used mainly by the following professionals.

* Business Analysts
* Business Owners
* Business Developers

Business Analysts

A [business analyst](https://www.simplilearn.com/tutorials/business-analysis-tutorial/how-to-become-a-business-analyst) is a professional who analyses the business data and represents the insights found using visually appealing graphs and dashboards

Business Owners

Business owners, decision-makers, or organizations use Power BI to view the insights and understand the prediction to make a business decision.

Business Developers

Business Developers are just[software developers](https://www.simplilearn.com/what-is-a-software-developer-article) who get hired for business purposes to develop custom applications and dashboards to help the business process be smooth.

53. What is the advanced editor?

Advanced editor is used to view queries that Power BI is running against the data sources importing data. The query is rendered in M-code. Users wanting to view the query code select “Edit Queries” from the Home tab, then click on “Advanced Editor” to perform work on the query. Any changes get saved to Applied Steps in the Query Settings.

**Stage 2**

**1. What is a common workflow in Power BI?**

A standard Power BI workflow includes the following four steps:

* Fetch the data to the Power BI Desktop, clean and manipulate the data, and create a report.
* Publish the report to the Power BI Service and build dashboards.
* Share the dashboards with your colleagues, managers, or shareholders.
* Interact with the final dashboards and reports in Power BI Mobile apps to extract business insights.

**2. What are the main business applications of Power BI?**

Since Power BI is a business intelligence application, we can apply it to a range of business spheres. Its most crucial applications include the following:

* Extracting meaningful business insights from the available raw data
* Creating compelling live reports and insightful interactive dashboards
* Identifying the current state of different departments or projects
* Tracking progress and KPIs of different departments or projects
* Detecting the strong and weak sides of a project from the standpoint of its performance
* Distributing the roles inside the team
* Granting access to the dashboards and reports to the relevant group of team members
* Displaying various statistics of a certain business on many different applications and websites in a favorable light for a potential customer

**3. What kind of specialists typically use Power BI?**

The following roles comprise the majority of Power BI users:

* Project managers
* Business analysts
* Data analysts
* Data scientists
* IT specialists
* Data administrators
* Developers
* Report consumers

**4. What are the important components of Power BI?**

Important components of Power BI are: 1) Data Integration, 2) Data Processing, and 3) Data Presentation



**5. What is Dax Function?**

It is a formula expression language called (DAX) that can be used with various visualization tools like Power BI. It is also known as a functional language, where the full code is kept inside a function.

**6. What are the data types of Dax?**

Data types of Dax are: 1) Numeric, 2) Boolean, 3) DateTime, 4) String, and 5) Decimal.

**7. What are the essential applications of the Power BI?**

Power BI is mainly used by:

* PMO – Project Management Office
* Business & Data Analyst
* Developer & Database Administrator
* IT Team, IT Professional
* Consumer for End User Report
* Data Scientist

**8. What are the drawbacks of using Power BI?**

Here, are the main drawbacks of Power BI:

* Dashboards and reports only shared with users having identical email domains.
* Power Bl does not mix imported data, which is accessed from real-time connections.
* Power BI can’t accept file size larger than 1 GB.
* Dashboard does not accept or pass user, account, or other entity parameters.

**9. Name out three important Power BI tools**

Three important power BI tool are:

* Power BI Desktop—It is used for desktop computers
* Power BI service—It is an online software as a service tool
* Mobile Power BI apps—They are used for iOS and Android devices.

**10. What are the important components of the Power BI toolkit, and what do they do?**

* Power Query: It allows you to discover, access, and consolidate information from different sources.
* Power Pivot: A modeling tool.
* Power View: It is a presentation tool for creating charts, tables, and more.
* Power Map: Helps you to create geospatial representations of your data.
* Power Q&A: Allows you to use natural language to get answers to questions.

**11. What types of data types are available in Power BI?**

Important Data sources used in Power BI Desktop are:

* All
* File
* Database
* Power BI
* Azure
* Online Services
* Other

**12. What is grouping? How can you use it?**

Power BI Desktop allows you to group the data into small chunks. For grouping, you should use Ctrl + click to select multiple elements in the visual. Right-click one of those elements which appear in groups window.

**13. Explain the term responsive slicers.**

On a report page, you can easily resize a responsive slicer to various sizes and shapes, and the data contained in it should be rearranged according to it. In case if the visual becomes too small to be useful, an icon representing the visual ability to take its place, thus saving the space on the report page.

**14. Define the term ‘M language.”**

It is a programming language used in Power Query. It’s a functional, case-sensitive language which is similar to other programming languages and easy to use.

**15. What information is required to create a map in Power Map?**

Power Map can display visualizations which are geographical in nature. That’s why some kind of location data is needed, for example, city, state, country or latitude and longitude.

**16. What are the important features of Power BI dashboard?**

* It allows you to drill through the page, bookmarks, and selection pane.
* It allows you to create various tiles like web content, images, textbox, and integrate URLs.
* Allows you to set report layout to mobile view.

**17 What are the steps to go to Data Stories Gallery in Power Bi communities?**

Steps to go to Data Stories Gallery:

* First, open PowerBI.com in a favorite browser.
* By hovering on Learn
* Click on Community
* Scroll down little, and you will find Data Stories Gallery.
* Anyone can submit her or his Data Story as well.

**18. Where incremental licensing refresh feature is accessible?**

Incremental refresh feature mainly used for high-end scalability of data by publishing only on that workspace in Power BI Service where Premium capacity is needed.

**19. How can you analyze Power BI reports data in excel?**

You need to follow the below-given steps:

* Open Power BI Admin portal, go to tenant settings and select -> Analyze.
* Check that Power BI Administrator has enabled Excel option or not.
* Then at the upper right corner, click settings to download and install Excel updates.
* Next, go to the left-hand side navigation pane, go to the workspace, click on the dataset, click on Eclipses (three dots) and select Analyze in Excel.
* Download ODC file, save, and double click on it.
* After that needs to provide power BI user id and password.

**20. What is Power Pivot, and what are the filter writes in Power BI?**

Power Pivot is an in-memory component which offers highly compressed data storage. It helps you to build a data model, creating formulas, relationship, calculated columns from various resources.

Filters are applicable in:

* Visualization level
* Page Level
* Report Level

**21. How can you perform Dynamic filtering in Power BI?**

Dynamic Filtering in Power BI is done using the following steps:

* Once all the data are set up, publish a detail report to Power BI.
* Publish it to group workspace.
* Create a filter link
* Create a DAX calculated column.
* Public overview report

**22. What is Power Pivot Data Model?**

It is a model that contains data writes, tables, sections, and table relations. These data tables help you to develop for holding data for a business substance.

**23. What is Power Query?**

Power query is an ETL tool which helps you to clean, shape, and modify data utilizing instinctive interfaces without doing anything.

**24. Which programming language is used in Power Query?**

M-code is a new programming language that is used in power query. It is similar to other programming languages and easy to use.

**25. List out benefits of using Variables in DAX.**

Here, are benefits of using DAX function:

* By declaring and evaluating a variable, the variable can be reused multiple times in a DAX expression, which helps you to avoid additional queries of the source database.
* Variables can make DAX expressions more useful and logical.
* Variables is only scoped, which should be measure or query which can’t be among measures.

**25. What are Tiles in Power BI?**

Tile is an important feature of power BI services and can be said as a picture of the data which can be pinned to the dashboard.

**26. What is on-premise gateway?**

On-premise gateway acts as a bridge which helps you to transfer the data, which is on-premise (not on the cloud) safely and securely.

**27. Name two types of connectivity modes in Power BI?**

Two types of connectivity modes used in Power BI are:

* Import
* Direct Query

**28. Explain the term data alerts.**

Alert works on data that is refreshed, Power BI looks for an alert, and it reaches the alert threshold or the limit then the alter will be triggered.

**29. What is the calculated column?**

It is a calculating expression of DAX which allows calculation on data stored in a new column.

**30. What is query collapsing?**

The process of converting the steps in power query editor to [SQL](https://www.guru99.com/sql.html) and executing it by the source database is called query collapsing.

**31. Explain data source filter.**

It is a parameter to filter the data into machines.

**32. What is content packs?**

These are pre-built solutions build for popular services as a major part of the Power BI experience.

**33. What are the types of filters available in Power BI Reports?**

Important filters of Power BI reports are:

* Visual-level Filters
* Page-level Filters
* Report-level Filters

**34. What is Bookmark?**

Bookmark in Power BI helps you to capture the configured view of a report page in a specific time. This includes filter and state of visual which can use a short cut to come back to the report that you can add as a bookmark.

**35. What are the advantages of using a variable in Power BI?**

Variables help you to create more logical Queries and which should be used for multiple DAX functions.

**36. Why use selection pane in Power BI?**

Selection Pane helps you to take control over visuals which require to be displayed and which should not be displayed. It allows you to combine multiple visual pages in the group and is also used in bookmarking.

**37. How to handle Many to Many relationships in Power BI?**

You can use Crossfiltering option in Power BI to address the Many to Many relationships.

**38. Explain x-velocity in memory.**

It is the main engine which is used in power pivot. It allows you to load the large set of data into Power BI data.

**39. Explain the term Custom Visuals.**

Graphs or visual which are not included in Power BI desktop are imported for better visualization.

**40. Is it possible to have created multiple active relationships in Power BI?**

No, we can’t set multiple active relationships in Power BI.

**41. State the main difference between District() and Values() in DAX?**

The only difference between two functions is that with District help you to calculate the null values.

**42. State the major differences between MAX and MAXA functions**

If you want to calculate numeric values, then use MAX. However, if it is for non numeric values, then you should use MAXA.

**43. Is on-premise access possible in Power BI?**

No, it is not possible to access Power BI services on private or internal service cloud. However, by using Power BI desktop, you can connect with the on-premises data sources.

**44. What is the major difference between the old version and a new version of Power BI tool?**

The latest version has more robust features, and it is famous with the name Power BI Desktop. This is an all in one solution for Power View, Power Pivot, and Power Query in the backend. Power BI offers many add-ins for [Excel](https://www.guru99.com/introduction-to-microsoft-excel.html), which is useful for better visualizations.

**45. Explain the term incremental refresh?**

Increment refresh is a newly added data so that there is no need to truncate or load the entire data.

**46. Is the Power BI tool available for free?**

You can access Power BI for free. However, if you wish to use all the feature of Power BI, then you can use its pro subscription account. The subscription account offers an enhanced version of several features that are available with Power Bi free account.

**47. What kind of data can you store in Power BI?**

In Power BI, you can store mainly two types of data.

**Fact Tables:**

The central table in a star schema of a data warehouse is a fact table that stores quantitative information for analysis, which is not normalized in most cases.

**Dimension Tables:**

It is a table in the star schema which helps you to store attributes and dimensions which describe objects that are stored in a fact table.

**48. State the main difference between Filter and Slicer.**

If you are using the normal filter user cannot interact with the dashboard. On the other hand, slicer allows users to have an interaction with Reports as well as Dashboards.

**49. What is the Embed Code?**

Power BI online contains an option for publishing on web that will generate a link address for the Power BI report. You can share these links to others, which is called embed code.

**50. What are the method to hide and unhide a specific report in Power BI?**

To hide and unhide specific report, you have to go to selection Pane in the menu bar, and press hides/unhide toggle button to bookmark.

**51. How can you compare Target and Actual Value from a Power BI report?**

You need to use Gauge chart to compare two different measure.

**52. Can you create multiple dynamic connections between two tables?**

No, we can’t create more that one multiple dynamic connections.

**53. What is the use of Power BI designer?**

Power BI Designer allows users to create intuitive reports and dashboards, easily and quickly. It also helps users to change visual views of their data at fingertips for better analytics and informed decision-making.

**54. Can you refresh Power BI reports after they are published to the cloud?**

Yes, it is possible. Gateways can be used to do so.

* For SharePoint: Data Management Gateway
* For Powerbi.com: Power BI Personal Gateway

**55. What is Custom Visuals?**

Custom Vizual are those visual which are not available in BI desktop, which are imported from the market for the purpose of better visualization.

**Power BI Developer Interview Questions for Experienced**

**56. What are the gateways that available in Power BI?**

The two gateway method available in Power BI are:

* On-premises information door
* On- premises information door ( personal mode)

**57. What is natural language search choice?**

The natural language search choice is language-based learning for communicating with information as a part of Power BI suite for Office 365 advertising.

**58. Can you join two unique information source in the same Power BI dashboard?**

Yes, we can join two unique information source in the same Power Bi dashboard. We can also merge comparable reports in your Power Bi account into using single dashboard.

**59. Why is TOP N not accessible for the Page and Report Level Filter?**

ToP N is not accessible for the Page and Report Level Filters because their channels are associated with different visuals.

**60. Explain the collect function.**

Collect function excludes null value. It does aggregate spatial values. You can’t transform data to another format.

**61. How can you differ COVAR and COVARP?**

The main difference between the two is that: COVAR directly gives the same co-variance, whereas COVARP is the population covariance.

**62. How can you assign SSRS with Power BI?**

Here are the steps to integrate SSRS with Power BI:

* SSRS Report Items like charts can be pinned to Power BI dashboards.
* A subscription is created to keep the snapshot of data in dashboard refreshed.
* Power BI reports will soon able to publish to SSRS portal.

**63. Explain z-order in Power BI?**

Z-order is a design strategy which is used for arranging visual over shapes. It can be defined as an implementation method which can be applied whenever reports have multiple elements.

**64. What is the only prerequisite for connecting to a database in Azure SQL Database?**

The only prerequisite for before connecting to a database is that the user need to configure firewall setting to allows remote connections.

**65. Name out some important DAX functions used in Power BI.**

Sum, Max, AVG, Distinct, Count, Calculate, Datediff are some important widely used DAX functions.

**66. What is X-speed in-memory investigation motor used for Power Pivot?**

The primary motto behind power turn is the x Velocity in-memory analytics engine. It allows dealing with the various measures of information as it stores data in the columnar database.

**67. Name widely recognized information forming systems.**

The most widely recognized information forming systems are:

* Removing columns and rows
* Adding indexes
* Applying for a sort order

**68. What happens by clicking on a single information point in one of the various visual in a report?**

When you click on single information point data gets select and copied to the clipboard. Moreover, the copied data can be pasted in any place according to your requirement.

**69. What is CORR function? When we use it?**

CORR is a correlation function. It gives a correlation between two variables. It mostly ranges from -1 to 1.

**70. State the difference between Count and CounD function.**

Count function returns to count, excluding NULL values whereas Countd returns distinct values which exclude NULL values.

**71. Explain DATEDD function in Power BI.**

DATEDD function helps you to convert any input to a date format. This input can number, string, or a data type input.

**72. What does DATENAME function do?**

DATENAME function shows the name of the specific part of the date that is given.

**73. What is the DATEPART function?**

It returns date function as an integer. However, DATENAME function does the same thing, except it returns the name of the part of the date.

**74. What does DATEDIFF function do?**

This function gives a difference between 2 dates based on the specified Date part.

**75. What is the use of ENDSWITH function?**

ENDSWITH function helps you to return the logical result to the given string. In case If the sub-string is available at the end of the sub string, then it returns TRUE.

**76. What is IFNULL function?**

If the value is not NULL iFNULL function result is the first expression, if it is not, then it will return the second expression.

**77. What is the use of INDEX Function in Power BI?**

INDEX function helps you to retrieve the index of the respective row.

**78. What is the main difference between LTRIM and RTRIM?**

LTRIM function helps you to remove the white space from the LEFT of the string. RTRIM helps you to remove it from the right the last index.

**79. What is the use of MID function?**

MID function returns the string character from the specified index position.

**80. How can you apply percentile function in Power BI?**

PERCENTILE function allows you to returns the data value of the specific percentile number.

**81. What is the SIGN function?**

Sign function returns the direction of the values. If it returns 1, if positive then 1, if 0 then 0.

**82. What is the use of statewith function?**

This function returns the logical answers TRUE if the sub-string is the starting string for the superstring. If it is not, it will return false.

**83. What is the use of split function?**

SPLIT function is used to split the string database on the given delimiter.

**84. What is the need of signing up with business email?**

Power BI is not supporting, the email address given by telecommunications or consumer email service providers. Thus, there is need for signing up with work email.

**85. Name the market place where you can download the Power BI mobile apps.**

* App store
* Google Play
* Window Store

**86. In which year Microsoft invented Power BI Embedded?**

In, the year 2016 Microsoft discharged new administration which is named as Power BI Embedded.

**87. What area do you go to change and reshape data in Power BI?**

Data Editing helps you to change and reshape data in Power BI.

**88. Data Category settings should be used for mapping information to geographic areas in Power BI?**

Scope and Longitude (e.g. 47.6080, – 122.3351)

**89. What do you use as a consolidate inquiry in Power BI?**

Join Queries are used as a consolidate inquiries in Power BI

**90. What is the option to unpivot data in the question proofreader?**

Unpivot line is a choice to unpivot any data in the question proofreader.

**91. What is the process to refresh Power BI reports when it is uploaded into the cloud?**

Power BI, reports can be refresh using Data management, gateway, and Power BI Personal Gateway.

**92. What visual would you need to use to show solitary esteem?**

Disseminate Plat is a visual you should use to show solitary esteem.

**93. Which of the following Power BI memberships allows you the right permit to see Power BI content with the various Power BI applications?**

Power BI Premium P1 is an application which gives this type of solutions for you.

**94. Which field composes can be added to the Field well of a Slicer visual?**

Computing segments should be made with a DAX articulation.

**95. What is the M dialect capacity to sort a segment in inquiry supervisor?**

The command for this purpose is Sort-> Table

**96. Which Power in BI visual is ideal for estimating execution against an objective?**

Projectile Power Bi visual is most fitting for this purpose.

**97. What context style is allowed by Power BI DAX?**

Power BI DAX content style is both Row and Filter.

**98. In, Power Bi, where do you discover the Q&A highlight?**

You will get at the highest point of a report in the Power BI benefit.

**99. How can you dynamically change the value measure to show multiple measures?**

You can do this by using harvesting measure and switch function.

**100. What is self-service business intelligence?**

Self-service Business Intelligence SSBI is a method to deal with data investigation which empowers business clients to channel, fragment, and break down their data, without top to the bottom specific information.

**101. What is Power BI DAX style?**

It is both Row and Filter Context

**102. How can I purchase Power BI suite?**

You can purchase Power BI licenses version directly from their website [www.powerbi.com](https://powerbi.microsoft.com/en-us/).

These interview questions will also help in your viva(orals)