1. **What is Power BI? And why is it used for?**

PowerBi is a business analytics tool Microsoft’s company. It is utilized for converting raw data to a variety of interactive analytical visualizations and eliminating relying on manual reports to derive business intelligence.

**1. Data Visualization:** Power BI allows them to make dynamic, well-equipped graphics from different data sources where the individual can work. By means of such visualizations, various forms like charts, graphs, maps and other elements can be employed to present the data in a clear way.

2. **Data Analysis**: The analysis of data can be done by the users through the power BI tools which come built in the system. This incorporates applications such as filtering, sorting, and zooming into particular statistics for the purpose of discovering tendencies, patterns, and insights.

3. **Data Integration**: The Power BI can interconnect with a lot of data sources as it can combine databases, spreadsheets, cloud services and others. It handles everything from clearly structured and non-structured data using the Data visualizations tools.

4. **Data Modeling**: The platform enables data modeling feature in Power BI to define relationships between different data sets, perform actions, and create measures and metrics for analysis.

5. **Collaboration and Sharing**: Power BI provides collaboration between the team members by permitting to share reports and dashboards very securely. Additionally, they are allowed to place their reports in the reporting library or include them elsewhere as well.

1. **What is Power BI Desktop?**

Power BI Desktop is a desktop application that comes at zero cost and plays role of a developing tool from the bigger Power BI suite of business analytics tools built by Microsoft. It gives all the capabilities required for Power BI report(s) and dashboard authoring and developing.

1. **What is the use of the “Get Data” icon in Power BI?**

Power BI provides the users with the "Get data" symbol which helps in the integration with different data sources and loading of data into the Power BI reports and dashboards. It outputs data to Power BI Desktop where it is utilized within the data query and visualization process.

1. **Describe the building blocks of Power BI.**

The raw materials of Power BI consist of some main parts that constitute the system for, the users, to create, analyze, and share interactive charts and dashboards. Here are the main building blocks of Power BI:Here are the main building blocks of Power BI:

* Power BI Desktop: Through Power BI Desktop, which is a free desktop application, users are afforded the opportunity of serving as the main creation labs for the Power BI reports that are used for designing Power BI dashboards. It is a versatile collection of tools that are used for data connection with the sources, data transformation, data modeling and in designing visualizations.
* Data Sources: With Power BI, the users can link to various data sources, such as databases (MS SQL Server, MySQL, PostgreSQL), spreadsheets (Excel, CSV, XML), cloud services (Azure, GA), online sources (SharePoint Online, Dynamics 365), and more. Data can be pulled from these instances for analyses in Power BI interface.
* Power Query Editor: The provision of a Power Query Editor with in-built functionalities in Power BI Desktop provide users with an environment where data transformation and cleansing operations can be explained. Despite the advanced tech components of this industry, a company can still capture data from many sources, clean it up and re-shape it to be ready for analysis by using a simple user interface.
* Data Model: Power BI data model that shows the data structure (dataflow) that will be imported into the Power BI Desktop is the underlying principle. It includes tables, tables' relationships, columns with calculated data, measures, and hierarchy or groups. User can establish links between tables, create calculated columns and measures using DAX, improve data models performance by optimizing.
* Visualizations: Power BI provides a multitude of interactive visuals. These elements can be used to illustrate the data, such as graphs, tables, pies, maps etc. People using the program can create, edit, and style plots that help them show the points in a way that'll be clearly understood by others.
* Reports: In Power BI, reports are used as an interactive collection of visualizations, designed to give users a chance to get into data and carry out their analysis. The users may have many pages inside one report, may incorporate charts and apply filters and slicers to produce slice-through paths which would reveal insights.
* Dashboards: PBIs dashboarding capabilities give a holistic portrait of the company performance through combining information of various reports and datasets. Individuals can mark data visualizations from the different reports and pin them to a dashboard, change the order, and add custom tiles to get a custom dashboards for performance monitoring.

1. **What are the major components of Power BI? And what do they do?**

Power BI is an ecosystem of the major parts that cooperate with each other to become the holistic solution for a business intelligence purpose. Here are the main components of Power BI and their functions:Here are the main components of Power BI and their functions:

* Power BI Desktop: Power BI Desktop, a free desktop application, sits on top in the hierarchical order of the creating, establishing and development process of Power BI reports and dashboards. Users make use of multiple data sources, clean and format data, design interactions and visualizations, and build summary reports and dashboards.
* Power BI Service (Power BI Online): The Power BI Service, trade name for Power BI Online, is a locally based platform from Microsoft, which is provided to users and organizations for publishing, sharing, as well as collaborating on Power BI reports and dashboards. It raises the bar by enabling users to view reports and dashboards from web browsers, and from mobile devices; to schedule data refresh or set up alerts; and to conduct manage content and permissions.
* Power BI Mobile Apps: Among Power BI Mobile Apps are those for iOS, Android, and Windows devices. Through the apps, people can access to data, interact with reports and dashboards anytime and anywhere. Customers can look at and investigate reports, get the announcement of both, and share their knowledge with co-workers through their mobile devices, right from the app.
* Power BI Report Server: On-premises Power BI report server is a server solution that can be used to host and maintain the Power BI reports and dashboards inside the existing company infrastructure. It is a highly-secure, scalable option for deploying Power BI content worldwide to internal organization websites.