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

Power Bi is a business intelligence tool wherein we can visualize the data to give insights and help in business development. We can import data from various sources(.csv, SQL server etc)

**How does Power BI work?**

It’s a business intelligence tool provided by Microsoft for analyzing and visualizing raw data to present actionable information. It is a combination of business analytics, data visualization that help a company to make data driven decisions.

**In what formats does Power BI available?**

PowerBI is available in three formats.

1. Power BI Desktop
2. Power BI service
3. Power BI mobile application

**Describe the building blocks of Power BI?**

The building blocks of this tool are Data visualizations,Datasets,Reports,Dashboard and Tiles.

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

Power Query**:** Using this the user can delete data from various data sources and extract data from a wide range of different databases like Oracle, SQL Server, MySQL etc.

Power Pivot: It is a data modelling and calculation engine. Mainly used for modelling simple and complex data.

Power Pivot helps you set or create relationships between different tables and calculate values that can be viewed in Pivot tables.

**Power View:**Power Is a data visualization component of Power BI. It is an interactive component that connects to data sources which can be utilized for data analysis.

**Power Map:** Power Map is used to visualize data in 3D mode in form of a map. Based on a geographical location, the data can be highlighted. Geographical locations can range from a country, state, city etc

**Power Q & A: It is used to ask question after the visualisation phase is complete. It combines with the PowerView so that the user can ask any question if needed.**

**Name some of the popular types of filters available in Power BI?**

**Manual/Auto Filters, Include/Exclude, Drill down and cross drill, Slicers, Top N to name a few.**

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

**This function is used to import the data in Power BI from the datasource which can be a .csv file , Excel spreadsheet etc. Once done the data can be seen in the PowerBI interface.**

**How to create and manage relationships in Power BI Desktop?**

* **On the Modeling tab, select Manage relationship > New**
* **In create relationship select the table & column you want to apply the relationship to.**
* **The above step is to be applied for the other column/table as well.**

**Differentiate Power BI vs Excel ?**

* **PowerBI can handle large amount of data compared to Excel**
* **PowerBI can connect to multiple datasources**
* **PowerBI has faster processing rate and the PowerBI dashboards,reports are more visually appealing than in Excel.**

**Are Power View and Power Query the same?**

**No they are not the same,Power Query is a ETL tool which acts as a add-in in Excel.**

**Can you tell me what the difference between Power BI personal Gateway and Data Management Gateway is?**

**Personal gateway can be used by a user who has installed it whereas data management gateway can be used by multiple users in the organization.**

**List the benefits of using variables in DAX.**

**Using variables makes the code easier to read and with the use of variables complex and efficient calculations can be created.**

**What is the Power Map?**

Power Map is used to visualize data in 3D mode in form of a map. Based on a geographical location, the data can be highlighted. Geographical locations can range from a country, state, city etc