1. **List and explain different PowerBi products?**

**Ans-**

* **Power BI Desktop**
  + Creating and editing customized reports for every level of expertise.
  + Data ingestion from hundreds of supported data sources.
  + Data transformation, cleaning, data model creation with built-in Power Query Editor.
  + AI-driven analytics and Interactive reporting with pre-built or custom visuals.
  + It is free to use on some limitations.
* **Power BI Services(Pro & Premium)**
  + **Power-BI Pro** Self-service BI in the cloud.
  + Creating, editing, and sharing reports and dashboards among users.
  + Collaboration in personal and team workspaces.
  + 10 GB of storage per user.
  + **Power-Bi Premium** both on-premises and in the cloud.
  + Dedicated storage (100 TB) and compute resources.
  + Consumption of Power BI content without individual licensing.
  + Maintaining BI assets on-premises with the Power BI Report Server.
  + Paginated reporting.
  + Multi-geo capability.
* **Power BI Embedded**
  + Reports, dashboards, and visual analytics embedded into applications.
  + An extensive library of data connectors, APIs, and fully documented SDKs.

1. **What limitations of Excel, Microsoft solved by PowerBi?**

**Ans-**

* **Excel** is used to organize data, transform it and perform mathematical operations and calculations but Power BI was conceived as a business intelligence and [data visualization](https://blog.bismart.com/en/data-visualization-with-power-bi) tool for businesses.
* Excel has limitations in the amount of data it can work within contrast, Power BI can handle much larger amounts of data.
* Power BI can connect to a large number of data sources, while Excel's connectivity capacity is limited. Also, unlike Excel, Power BI can be easily used from mobile devices.
* Power BI has faster processing than Excel.
* Power BI dashboards are [more visually appealing, interactive and customizable](https://blog.bismart.com/en/reporting-services-and-highly-visual-and-interactive-reports) than those in Excel.
* Power BI is a more powerful tool than Excel in terms of comparison between tables, reports, or data files.
* Power BI is more user-friendly and easy to use than Excel.

1. **Explain PowerQuery?**

**Ans-**

* Power query is a function that filters transforms, and combines the data extracted, from various sources.
* It helps to import data from databases, files, etc, and append data.
* Using Power Query, you can perform the extract, transform, and load (ETL) processing of data.

1. **Explain PowerMap?**

**Ans-**

* A **Power map** lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts.
* With Power Map, you can **plot geographic** and temporal data on a 3-D globe or custom map, show it over time, and create visual tours you can share with other people.

1. **How powerBi eliminate the need to host SharePoint Server on-premises?**

**Ans-**

* Power BI makes it so easy, to enable SharePoint authors to embed Power BI reports directly in SharePoint Online pages with no code required.
* The Power BI report web part requires all the viewers to have a Power BI Pro license. If your users don’t have a Pro license, they’ll be directed to start a Pro trial version with a limit of days.

1. **Explain the updates done in Power Bi Service(power BI 2.0) as compared to older version ? Ans-**

* New mobile formatting options.
* Sensitivity labels downstream Inheritance.
* Default label policies in Power BI.
* Mandatory label policy.
* New Format Pane – On by default.
* Multi-row card selection.