1. What are the 3 main connectivity modes in Power BI?

   Ans: The 3 main connectivity modes in Power BI are:

   A. Import Mode: Data is imported into Power BI and stored in-memory for fast performance.
   B. DirectQuery: Queries are sent directly to the data source at runtime—no data is stored.
   C. Live Connection: Used mainly with Analysis Services; Power BI connects live to the model.

2. What are the two gateways in Power BI?

   Ans: The two gateways in Power BI are:

   A. Personal Gateway: Designed for individual use; supports scheduled refresh only.
   B. Standard Gateway: Enterprise-grade; supports multiple users and both refresh + live data.

3. How gateway works ? Explain with diagram

   Ans: A Power BI Gateway acts as a bridge between Power BI Service (cloud) and on-premises data sources.

   Workflow:

1. User publishes report to Power BI Service.

2. Gateway securely connects to on-premises data source.

3. Data is either refreshed (Import) or queried live (DirectQuery/Live).

   [Power BI Service] ⇄ [Gateway] ⇄ [On-Premises SQL Server / Excel / etc.]

4. What is the difference Cloud based data and On premises data?

   Ans: Cloud Based Data: Stored in services like Azure, SharePoint Online, or OneDrive. Accessible directly.

   On-Premises Data: Stored locally (e.g., SQL Server, Excel on PC). Requires gateway for access.

5. What are the step to use Gateway.

   Ans: The steps to use Gateway are:

   1. Download and Install Gateway from Power BI website.
   2. Configure Gateway with your credentials and data source settings.
   3. Register Gateway in Power BI Service.
   4. Add Data Source to the gateway.
   5. Use Gateway in your dataset settings for refresh or live connection.