1. **What is Power BI, and what are its three main components?**

**Power BI** is a business analytics tool developed by Microsoft that allows users to **visualize data, share insights**, and make informed decisions based on interactive reports and dashboards. It helps transform raw data from various sources into meaningful information through easy-to-understand visuals.

Three main components of Power BI:

* Power BI Desktop
* Power BI Service/Online
* Power BI Mobile

1. **Name two business use cases for Power BI dashboards.**

Sales Performance Tracking - monitors the sale trends, performance by region, product, salesperson.

Human Resources Analytics - monitors and analysis employee data to manage the working environment.

1. **How do you download and install Power BI Desktop?**

Go to official website PowerBI.com click on Product then POwer BI Desktop and Click download free.

1. **What is the difference between Power BI Desktop and Power BI Service?**

Power BI Desktop creates reports builds reporting graphs and tables while Power BI Service give the chance to share and discuss the results online.

1. **What file extension does a Power BI project use?**

.pbix

1. **Explain the role of Power Query in Power BI.**

Power Query is the data connection and transformation tool within Power BI. It allows users to connect to various data sources, clean, transform, and load data before building visualizations

1. **Why would a business prefer Power BI over Excel for reporting?**

P**ower BI** is purpose-built for **modern, scalable, and interactive reporting**, while **Excel** is best for **ad-hoc analysis and individual use**.

A business would prefer Power BI when it needs:

* **Interactive dashboards**
* **Scalable performance**
* **Cloud sharing and collaboration**
* **Real-time or automated data refresh**

1. **Describe one limitation of the free version of Power BI.**

Limitation of the free version you can’t share those reports with others or **collaborate** in shared workspaces. Sharing and collaboration require a **Power BI Pro** or **Premium** license.

1. **What is a "published report" in Power BI Service?**

A published report in Power BI Service is a report that has been created in Power BI Desktop and then uploaded to the Power BI Service

1. **How does Power BI Mobile enhance accessibility?**

**Power BI Mobile** enhances accessibility by giving users **secure, real-time, interactive access** to data insights **from anywhere**, improving **decision-making speed and flexibility**

1. **Compare Power BI with Tableau—pros and cons.**

Power BI is cost-effective, easy to use BI, has wide use in microsoft community. Tableau handles good with large heavy databases, deep customization but is costly.

1. **Explain how Power BI integrates with Azure services.**

Power BI integrates tightly with Azure to support secure, scalable, and intelligent analytics, empowering organizations to extract deeper insights from complex cloud data environments.

1. **What are "gateways" in Power BI, and when are they needed?**

A **gateway** is required when **Power BI Service (cloud)** needs to **connect to on-premises data sources** securely—especially for **scheduled refreshes** or **real-time data access**.

1. **How would you convince a company to adopt Power BI? (ROI argument)**

Power BI provides fast, flexible, and affordable analytics that empower smarter decisions, increase efficiency, and deliver measurable financial return—making it a strategic asset, not just a reporting tool.

1. What security features does Power BI offer for sensitive data?

Security Features: