

### **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

### **2. 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.

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

Go to official website [PowerBI.com](https://powerbi.microsoft.com) click on Product then POver BI Desktop and Click download free.

### **4. 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.

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

.pbix

### **6. 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

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

Power 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

## **8. 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.

## **9. 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

## **10. 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

## **11. 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.

**12. 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.

**13. 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.

**14. 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.

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

Security Features: