- 1. What is Power BI, and what are its three main components? Power BI is a Microsoft tool for data analysis and visualization. Three main components:
 - Power BI Desktop (for creating reports)
 - Power BI Service (online sharing and collaboration)
 - Power BI Mobile (view reports on mobile devices)
- 2. Name two business use cases for Power BI dashboards.
 - Sales tracking: Monitor revenue, top products, and regions.
 - HR analytics: Track employee headcount, turnover, and hiring trends.
- 3. How do you download and install Power BI Desktop? open powerbi.microsoft.com and click "Download"
- 4. What is the difference between Power BI Desktop and Power BI Service?
 - Power BI Desktop: Create and design reports (free).
 - Power BI Service: Share and access reports online (requires account).
- 5. What file extension does a Power BI project use? .pbix
- Explain the role of Power Query in Power BI.
 Power Query cleans, transforms, and loads data before it's used in visuals.
- 7. Why would a business prefer Power BI over Excel for reporting? Power BI offers interactive dashboards, automated refresh, and better visuals.
- 8. Describe one limitation of the free version of Power BI. You cannot share reports with others unless you have a Pro license.
- 9. What is a "published report" in Power BI Service? It's a report created in Power BI Desktop and uploaded online to share and access.
- 10. How does Power BI Mobile enhance accessibility?It lets users view dashboards and reports anytime from a phone or tablet.
- 11. Compare Power BI with Tableau—pros and cons. Power BI pros: Cheaper, better Microsoft integration

Power BI cons: Less advanced visuals than Tableau

Tableau pros: Strong visuals and performance

Tableau cons: More expensive

12. Explain how Power BI integrates with Azure services.

It connects to Azure SQL, Azure Synapse, and Azure Machine Learning for deeper analysis and real-time data.

- 13. What are "gateways" in Power BI, and when are they needed?
 Gateways connect Power BI to on-premise data sources (like SQL Server). Needed when data isn't in the cloud.
- 14. How would you convince a company to adopt Power BI? (ROI argument)
 Power BI saves time, reduces manual reporting, and gives faster insights leading to better decisions and cost savings.
- 15. What security features does Power BI offer for sensitive data?
 - Row-level security (RLS)
 - Data encryption
 - Microsoft compliance standards (e.g., GDPR, ISO)