Power BI - lesson 1

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

Asnwer: Power BI is a Microsoft tool used to turn data into interactive visuals and reports. Its 3 main components are:

- Power BI Desktop - build report

- Power BI Service - share report online

- Power BI Mobile - view report on your phone

2. Name 2 business use cases for Powe BI dashboards.

Answer:

- Tracking sales performance across regions

- Monitoring customer support response time

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

Answer: Go to the Microsoft Power BI website or the Microsoft Store, click Download Power BI Desktop and install it like any other program.

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

Answer: Desktop is for creating report on your computer. Service is for publishing, sharing, and viewing reports online/

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

Answer: .pbix

6. Explain the role of Power Query in Power BI.

Answer: Power Query helps you clean, transform and load data before you use it in your visuals.

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

Answer: Power BI makes data interactive, handles bigger data better, and is easier to share and refresh automaticly.

8. Describe one limitation of the free version of Power BI.

Answer: You can't share reports with others, only view them by yourself.

9. What is published report in Power BI Service?

Answer: A report created in Power BI Desktop and uploaded to the online Power BI workspace so others can view it

10. How does Power BI Mobile enhance accessibily?

Answer: It lets users check report and dashboards anytime on their phone or table.

11. Compare Power BI with Tableau - pros and cons.

Answer:

- Power BI: Cheaper, better with Microsoft tools, easier for beginners.

- Tableau: Stronger visuals, handles very large data well, more flexible but more expensive.

12. Explain how Power BI integrates with Azure servises.

Answer: It connects to Azure database, machine learning models, and cloud storage to get and analyze real-time data.

13. What are gateways in Power BI, and when are they needed?

Answer: Gateways connect your local data (like excel on your PC or company database) to Power BI Service, so your online report always has fresh data.

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

Answer: Power BI saves time, cuts manual reporting work, shows real-time business data, and helps make faster, smarter decisions - all at a low cost.

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

Answer:

- Row-level security - control who sees what

- Data encryption

- Integration with Microsoft security tools like Azure Active Directory