Lesson 1: Introduction to Power BI - Answers

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

Power BI is Microsoft's business intelligence tool for connecting, transforming, and visualizing data. Main components: 1. Power BI Desktop – for creating reports. 2. Power BI Service – for publishing and sharing reports. 3. Power BI Mobile – for accessing reports on mobile devices.

2. Name two business use cases for Power BI dashboards.

1. Sales performance monitoring. 2. Customer insights and behavior analysis.

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

Visit https://powerbi.microsoft.com/desktop, click 'Download Free', run the installer, and follow prompts.

4. Difference between Power BI Desktop and Power BI Service

Desktop: local application to design reports. Service: cloud platform to share and collaborate on reports.

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

.pbix

6. Role of Power Query in Power BI

Power Query is used to clean, transform, and shape data before creating visuals.

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

Interactive dashboards, automated refresh, better handling of large datasets, and cloud sharing.

8. One limitation of the free version of Power BI

Cannot privately share reports with others without a Pro license.

9. What is a 'published report' in Power BI Service?

A report created in Desktop and uploaded to Power BI Service for online access and interaction.

10. How does Power BI Mobile enhance accessibility?

Allows users to view and interact with dashboards anytime, anywhere, with mobile-friendly navigation.

11. Power BI vs Tableau - Pros and Cons

Power BI Pros: Affordable, integrates with Microsoft tools, easy for Excel users. Power BI Cons: Limited Mac desktop support, fewer advanced visuals. Tableau Pros: Advanced visuals, strong exploration tools. Tableau Cons: Higher cost, steeper learning curve.

12. How Power BI integrates with Azure services

Connects to Azure SQL, uses Azure ML for predictions, integrates with Azure Active Directory.

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

Gateways connect Power BI Service to on-premises data sources for secure refresh and queries.

14. ROI Argument - Convincing a company to adopt Power BI

Time savings, real-time insights, cost efficiency, scalability from small to large enterprises.

15. Security features of Power BI for sensitive data

Row-Level Security, encryption in transit and at rest, Azure AD integration, and audit logs.