Lesson 1: Introduction to Power BI - With Answers

Questions and Answers:

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

Answer: Power BI is a business analytics tool that provides interactive visualizations and business intelligence capabilities. Its three main components are Power BI Desktop, Power BI Service, and Power BI Mobile.

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

Answer: Sales performance tracking and financial reporting are two common business use cases.

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

Answer: Power BI Desktop can be downloaded from the Microsoft Store or from the official Power BI website, and then installed like any other application.

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

Answer: Power BI Desktop is a Windows application for creating reports, while Power BI Service is a cloud-based platform for sharing and collaborating on those reports.

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 is used to connect, combine, and refine data from various sources.

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

Answer: Power BI provides more advanced visualization tools, automated data refresh, and better sharing and collaboration features.

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

Answer: The free version does not support sharing reports with others in an organization.

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

Answer: It is a report created in Power BI Desktop and then uploaded to the Power BI Service for sharing and collaboration.

10. How does Power BI Mobile enhance accessibility?

Answer: It allows users to view and interact with reports and dashboards on mobile devices, ensuring access anytime and anywhere.

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

Answer: Power BI is more affordable and integrates well with Microsoft products, while Tableau offers more advanced visual customization but at a higher cost.

12. Explain how Power BI integrates with Azure services.

Answer: Power BI can connect to Azure SQL Database, Azure Data Lake, and other Azure services to retrieve and analyze cloud data.

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

Answer: Gateways connect on-premises data sources to Power BI Service and are needed when you want to refresh reports with local data.

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

Answer: Power BI provides faster insights, better decision-making, and reduced reporting time, leading to higher productivity and ROI.

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

Answer: It includes row-level security, data encryption, user authentication, and compliance with major industry standards.

Sales_Data Table:

OrderID | Product | Quantity | Price | OrderDate

1001 | Laptop | 2 | 1200 | 1/5/2023

1002 | Mouse | 5 | 25 | 2/5/2023

1003 | Keyboard | 1 | 80 | 2/5/2023

1004 | Monitor | 1 | 300 | 3/5/2023

1005 | Laptop | 1 | 1200 | 3/5/2023