



**SILVER OAK  
UNIVERSITY**  
EDUCATION TO INNOVATION

**School of Technology, Design and Computer Application**  
**Silver Oak College of Computer Application**  
**Bachelor of Science Computer Science & Information Technology**  
**Fundamentals of Power BI**

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1. What does BI stand for?
  - a) Business Integration
  - b) Business Intelligence
  - c) Business Information
  - d) Business Internet

Answer: b) Business Intelligence

2. Which of the following is a basic component of Power BI?
  - a) PowerPoint
  - b) Power Query
  - c) Power Apps
  - d) Power Manager

Answer: b) Power Query

3. What is the main purpose of Business Intelligence (BI)?
  - a) To process raw data into valuable information
  - b) To create mobile apps
  - c) To manage financial data
  - d) To create presentations

Answer: a) To process raw data into valuable information

4. Which tool is a competitor to Power BI?
  - a) Photoshop
  - b) Tableau
  - c) Excel
  - d) Word

Answer: b) Tableau

5. What is the name of Power BI's interface for building visual reports?
  - a) Power Query
  - b) Power View
  - c) Power Map
  - d) Power Script

Answer: b) Power View

6. Which version of Power BI is free to use?



- a) Power BI Pro
- b) Power BI Premium
- c) Power BI Free
- d) Power BI Business

Answer: c) Power BI Free

7. Which of the following is used to prepare data in Power BI?
- a) Power Map
  - b) Power Query
  - c) Power Pivot
  - d) Power Charts

Answer: b) Power Query

8. What does Power Pivot in Power BI allow you to do?
- a) Build interactive reports
  - b) Create and manage data models
  - c) Visualize geographical data
  - d) Format documents

Answer: b) Create and manage data models

9. Which of the following is an advantage of Power BI over traditional BI tools?
- a) Higher cost
  - b) Limited data visualization options
  - c) Real-time data processing and interactivity
  - d) Incompatibility with cloud-based data

Answer: c) Real-time data processing and interactivity

10. What is the purpose of Power BI Premium?
- a) To allow free usage of Power BI tools
  - b) To provide additional features for large organizations
  - c) To replace Power BI Free
  - d) To remove all security features

Answer: b) To provide additional features for large organizations

11. What is Power BI commonly used for in businesses?
- a) Web development
  - b) Data visualization and reporting
  - c) Marketing automation
  - d) Creating software applications

Answer: b) Data visualization and reporting

12. What does Power Map in Power BI allow you to do?
- a) Create bar charts
  - b) Build geographical data visualizations
  - c) Format reports
  - d) Write complex queries

Answer: b) Build geographical data visualizations



13. Which version of Power BI offers the most advanced features and is suitable for enterprise-level needs?

- a) Power BI Free
- b) Power BI Pro
- c) Power BI Premium
- d) Power BI Desktop

Answer: c) Power BI Premium

14. Which of the following is a real-world application of Power BI?

- a) Predicting weather patterns
- b) Data visualization for marketing analytics
- c) Creating 3D models for games
- d) Developing websites

Answer: b) Data visualization for marketing analytics

15. What is the main function of Power BI's Power Pivot?

- a) Create interactive dashboards
- b) Prepare raw data for analysis
- c) Manage large datasets and perform calculations
- d) Build geographic visualizations

Answer: c) Manage large datasets and perform calculations

16. How does Power BI differ from traditional BI tools?

- a) Power BI requires no internet connection
- b) Power BI has limited data visualization capabilities
- c) Power BI offers interactive, real-time visualizations and is cloud-based
- d) Power BI is designed for hardware development

Answer: c) Power BI offers interactive, real-time visualizations and is cloud-based

17. What is the primary advantage of using Power BI Pro over the free version?

- a) Limited data capacity
- b) Access to advanced data modeling features
- c) Access to premium visualizations
- d) Real-time data sharing and collaboration

Answer: d) Real-time data sharing and collaboration

18. Why is Power Query important in Power BI?

- a) It helps to store data in databases
- b) It is used for querying data for analysis
- c) It helps to visualize data in reports
- d) It designs interactive dashboards

Answer: b) It is used for querying data for analysis

19. How can businesses benefit from using Power BI?



- a) By reducing manual data entry tasks
- b) By converting data into actionable insights
- c) By creating web applications
- d) By monitoring employee performance

Answer: b) By converting data into actionable insights

20. What is the primary difference between Power BI Desktop and Power BI Pro?

- a) Power BI Desktop is a cloud-based tool
- b) Power BI Desktop is used only for data collection
- c) Power BI Pro allows for collaboration and sharing
- d) Power BI Pro has fewer features than Power BI Desktop

Answer: c) Power BI Pro allows for collaboration and sharing

21. Why might a company choose Power BI Premium?

- a) To eliminate the need for data modeling
- b) To access advanced features for larger organizations
- c) To replace traditional BI tools completely
- d) To limit access to certain data visualizations

Answer: b) To access advanced features for larger organizations

22. How do Power BI, Tableau, and QlikView differ?

- a) Power BI is more expensive than Tableau and QlikView
- b) Tableau is known for superior data modeling capabilities
- c) QlikView focuses mainly on cloud-based visualizations
- d) Power BI is more user-friendly and integrates better with Microsoft tools

Answer: d) Power BI is more user-friendly and integrates better with Microsoft tools

23. What is the main benefit of using Power BI's Power Map for data visualization?

- a) It enables users to create dashboards
- b) It helps users build geographic data representations
- c) It provides real-time data analysis
- d) It allows users to model complex data

Answer: b) It helps users build geographic data representations

24. What is the role of Power Pivot in managing data models?

- a) Creating interactive charts
- b) Storing raw data
- c) Performing advanced calculations and managing large datasets
- d) Formatting visual reports

Answer: c) Performing advanced calculations and managing large datasets

25. How does Power BI support real-time data analysis?

- a) By using static reports
- b) By limiting the number of data sources
- c) By connecting directly to cloud-based data sources and processing data interactively
- d) By performing calculations offline

Answer: c) By connecting directly to cloud-based data sources and processing data interactively

26. What is the advantage of using Power BI Pro for data collaboration?



- a) It allows unlimited data storage
- b) It enables sharing of reports and dashboards in real-time
- c) It automatically cleans and formats data
- d) It allows for more complex calculations than Power BI Free

Answer: b) It enables sharing of reports and dashboards in real-time

27. Which of the following is a core feature of Power BI's Power View?

- a) Managing databases
- b) Creating interactive reports and visualizations
- c) Designing business models
- d) Coding applications

Answer: b) Creating interactive reports and visualizations

28. What kind of data can Power BI handle efficiently?

- a) Only data from spreadsheets
- b) Data from multiple sources, including databases and cloud services
- c) Data from social media only
- d) Data from only one source

Answer: b) Data from multiple sources, including databases and cloud services

29. Why is Power BI used in industries like healthcare, finance, and retail?

- a) To manage employee data
- b) To create marketing materials
- c) To analyze and visualize complex business data for decision-making
- d) To develop mobile applications

Answer: c) To analyze and visualize complex business data for decision-making

30. Which Power BI version is most suited for small businesses with limited data needs?

- a) Power BI Free
- b) Power BI Pro
- c) Power BI Desktop
- d) Power BI Premium

Answer: a) Power BI Free

31. Which of the following steps would you take to install Power BI Desktop?

- a) Sign in to Power BI Pro
- b) Download Power BI Desktop from the Microsoft website
- c) Install Tableau
- d) Enable Power BI in Excel

Answer: b) Download Power BI Desktop from the Microsoft website

32. If a company needs to visualize sales data across different regions, which feature of Power BI should they use?

- a) Power Pivot
- b) Power Query



- c) Power Map
- d) Power Apps

Answer: c) Power Map

33. You need to analyze customer data from Excel and SQL databases. Which Power BI feature would you use to bring this data together?

- a) Power Query
- b) Power Map
- c) Power View
- d) Power Pivot

Answer: a) Power Query

34. In Power BI, how would you visualize data from multiple sources?

- a) Use Power Query to combine data and then visualize it in Power View
- b) Manually input data into Excel
- c) Use only one data source at a time
- d) Use Power Pivot to import data from one source

Answer: a) Use Power Query to combine data and then visualize it in Power View

35. You want to share an interactive report created in Power BI with your team. Which feature should you use?

- a) Power Pivot
- b) Power Query
- c) Power BI Pro for real-time sharing
- d) Power Map

Answer: c) Power BI Pro for real-time sharing

36. How would you use Power BI to create a dynamic dashboard for tracking company performance?

- a) Use Power Pivot to analyze and Power View to visualize the data
- b) Use Power Query for input and Power Pivot for output
- c) Create static charts in Excel
- d) Use Power Map to create a geographical report

Answer: a) Use Power Pivot to analyze and Power View to visualize the data

37. How would you install Power BI Desktop on a computer running Windows 10?

- a) Use Microsoft Store to download and install Power BI Desktop
- b) Download the setup file from the internet and install manually
- c) Install Power BI through Excel
- d) Use a Power BI mobile app to install on Windows 10

Answer: a) Use Microsoft Store to download and install Power BI Desktop

38. If you want to generate a report that visualizes the most recent financial data in Power BI, what should you do first?

- a) Install Power BI Pro



- b) Import and clean the data using Power Query
- c) Build a table manually in Excel
- d) Visualize the data directly without cleaning

Answer: b) Import and clean the data using Power Query

39. Which of these Power BI tools would you use to clean and reshape your data before analysis?

- a) Power View
- b) Power Query
- c) Power Pivot
- d) Power Map

Answer: b) Power Query

40. You want to apply a filter to a dataset in Power BI. Which component would you use?

- a) Power Pivot
- b) Power Query
- c) Power View
- d) Power Map

Answer: b) Power Query

41. In Power BI, how would you connect a cloud database like Azure SQL?

- a) By using Power Pivot
- b) Through Power Query to access cloud data sources
- c) By writing SQL queries directly in Power View
- d) Connecting manually through the file menu

Answer: b) Through Power Query to access cloud data sources

42. Which Power BI feature would you use to create a map that displays data from different regions?

- a) Power Pivot
- b) Power View
- c) Power Map
- d) Power Query

Answer: c) Power Map

43. To share a Power BI report with stakeholders, which version of Power BI is most appropriate?

- a) Power BI Free
- b) Power BI Pro
- c) Power BI Desktop
- d) Power BI Premium

Answer: b) Power BI Pro

44. How can you adjust the layout of your report to match your company's branding in Power BI?

- a) Use Power Query to clean the data
- b) Use Power View to adjust the design and format



- c) Modify the default colors in Power Pivot
- d) Use Power Map to add branded icons

Answer: b) Use Power View to adjust the design and format

45. You need to build a data model with advanced relationships. Which component of Power BI will you use?

- a) Power Pivot
- b) Power Map
- c) Power Query
- d) Power View

Answer: a) Power Pivot

#### Questions

1. Define Business Intelligence (BI) and describe its significance.
2. List the key components of Power BI and explain their functions.
3. Identify the key differences between Traditional BI and Power BI.
4. Recall the different versions of Power BI and state their features.
5. Enumerate the industries where Power BI is commonly used.
6. Outline the steps required to install Power BI on a system.
7. Explain how Power BI enables better decision-making compared to Traditional BI.
8. Describe the benefits of Power BI's cloud-based architecture for businesses.
9. Compare Power BI with Tableau and QlikView based on ease of use, visualization, and cost.
10. Summarize how Power Query simplifies data transformation within Power BI.
11. Illustrate the role of Power Pivot in enhancing data modeling and calculations.
12. Explain why Power BI is categorized as a self-service BI tool and how it empowers non-technical users.
13. Demonstrate the process of creating a simple Power BI dashboard using sales data.
14. Apply Power BI to analyze customer feedback data for a retail store.
15. Utilize Power BI to perform risk analysis in a finance company.
16. Develop a Power BI report to compare quarterly sales performance.





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17. Implement Power BI to track employee productivity in an organization.
18. Show how to connect Power BI to a live data source and refresh it automatically.