1. What type of data is used in bar, column, and pie charts?

- ❌ Numerical data
- ✅ **Categorical data**
  These charts are best for comparing categories or groups.
- ❌ Logical data
- ❌ Compositional data

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2. Andy, a data analyst, wants to compare multiple parts of a whole in a data visualization. What type of visualization should Andy use?

- ✅ **Composition chart**
  Used to show how individual parts contribute to a whole.
- ❌ Distribution chart
- ❌ Relationship chart
- ❌ Line chart

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3. A cloud data analyst is designing a dashboard to demonstrate how a company's last two marketing campaigns have performed over the past six weeks. Which type of dashboard should they create?

- ❌ Sales dashboard
- ✅ **Operational dashboard**
  Operational dashboards track short-term performance and are ideal for monitoring ongoing campaigns.
- ❌ Strategic dashboard
- ❌ Tactical dashboard

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4. What type of visualization can compare current numbers to desired performance and help management to quickly notice a problem and react?

- ❌ Pie chart
- ❌ Dashboard
- ❌ Numerical dashboard
- ✅ **Scorecard**
  Scorecards highlight key metrics and compare actual vs. target values.

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5. As a cloud data analyst, you need to meet with stakeholders to understand what they need. Which tactic can help you ask effective questions?

- ✅ **Be specific in your questions.**
  Specific questions help uncover detailed requirements.

- ❌ Be general in your questions

- ❌ Ask yes or no questions

- ❌ Ask closed-ended questions

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6. As a cloud data analyst, why is it important to ask specific questions?

- ❌ To demonstrate concern about the project
- ❌ To understand how to conduct data analysis
- ❌ To remember key information about a project
- ✅ **To identify the business requirements of the project**
  Specific questions help define goals and guide analysis.

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7. A cloud data analyst is designing a dashboard and wants to present their ideas to project stakeholders. What should the cloud data analyst use to present a visual representation of the design?

- ❌ A report
- ❌ A flowchart
- ❌ A data visualization
- ✅ **A wireframe**
  Wireframes show layout and structure before development.

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8. A cloud data analyst is developing a dashboard for a stakeholder. They want to share with the stakeholder how the dashboard will look and what functionalities it will have. Why is creating a wireframe the best approach for the cloud data analyst?

- ❌ Written communications are the best way to communicate with stakeholders
- ❌ Visual examples allow the use of the latest technology available
- ❌ Verbal communications with the stakeholders are not always possible
- ✅ **Visual examples tend to be easier to understand than verbal or written communications.**
  Wireframes provide clarity and facilitate feedback.

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9. A data analyst needs to create a presentation that analyzes the difference between 2 variables. What type of presentation should they use?

- ❌ Composition
- ✅ **Comparison**
  Used to highlight differences between variables.
- ❌ Correlation
- ❌ Distribution

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10. A cloud data analyst is tasked with creating a dashboard that analyzes the response to a company's social media ads. What type of dashboard should they use?

- ❌ Numerical dashboard
- ❌ Strategic dashboard
- ❌ Operational dashboard
- ✅ **Tactical dashboard**
  Tactical dashboards are ideal for analyzing short-term marketing efforts like social media campaigns.

11. A data analyst wants to ask their stakeholders effective questions, so they decide to ask action-oriented questions. Which of the following is an example of an action-oriented question?

- ❌ The annual revenue is the best to compare performance; are you using this benchmark?
- ❌ Will you use industry benchmarks?
- ✅ **Which market and industry benchmarks will you use?**
  🟦 *Action-oriented questions are specific and guide stakeholders toward decisions or actions.*
- ❌ Are you using the annual revenue as a benchmark?

12. A cloud data analyst is working with stakeholders to determine their needs. The cloud data analyst asks the stakeholders the "why" for their request. What is the cloud data analyst's goal?

- ❌ To demonstrate to the stakeholder that their requests need to be translated
- ✅ **To identify needs that the stakeholder has not considered yet**
  🟦 *Asking "why" helps uncover deeper motivations and unspoken requirements.*
- ❌ To impress the stakeholders with the cloud data analyst's business knowledge
- ❌ To convince the stakeholders that more time is needed to complete the request

13. What type of presentation demonstrates correlation between two or more variables?

- ❌ Distribution
- ❌ Composition
- ❌ Comparison
- ✅ **Relationship**
  🟦 *Relationship charts (e.g., scatter plots) show how variables are connected or correlated.*

14. What type of dashboard is used to identify trends, make comparisons, create predictions, and establish future goals?

- ❌ Strategic dashboard
  Strategic dashboards focus on high-level KPIs and long-term goals, but they are not primarily used for detailed analysis or predictions.

- ❌ Operational dashboard
  Operational dashboards are for real-time monitoring and day-to-day operations.

- ❌ Tactical dashboard
  Tactical dashboards support mid-term decisions and performance tracking.

- ✅ **Analytical dashboard**
  🟦 *Analytical dashboards are designed for deep data exploration, identifying trends, making comparisons, and generating insights to support strategic decisions.*