

**1. A data analyst is tasked with creating a visualization. What process can they use to understand the dataset's structure?**

- ☒ **Data exploration**  
☐ *Data exploration involves inspecting the dataset's characteristics (size, distribution, accuracy) to understand its structure before visualization.*
  - ☒ Data presentation
  - ☒ Data visualization
  - ☒ Data discovery
- 






**2. As a cloud data analyst, what type of questions can you answer using measures?**

- ☒ **Questions that require a mathematical operation of the dimensions, such as average, count, and sum**  
☐ *Measures are used to perform aggregations and calculations on data, helping answer quantitative questions.*
  - ☒ Questions about the attributes of the data
  - ☒ Questions that require the use of complicated mathematical formulas
  - ☒ Questions about the quality of the data
- 






**3. How is a dimension represented in a table data model?**

- ☒ Dimensions are represented as the header row in a table data model
  - ☒ Dimensions are represented as unique data points in a table data model
  - ☒ **Dimensions are represented by the columns of a table data model**  
☐ *Each column represents a dimension, describing attributes of the data (e.g., title, genre, date).*
  - ☒ Dimensions are represented by the rows of a table data model
- 

**4. A data analyst is experimenting with how their data can be visualized. What is one of the benefits of this practice?**

-  **Helps to refine the hypotheses**  
 *Trying different visualizations can reveal patterns and guide the analyst in shaping better questions and hypotheses.*
  -  Helps to create patterns in data
  -  Helps to decide the color pallet
  -  Helps to refine the visualization limits
- 

## 5. How does data exploration help a data analyst avoid mistakes in a visualization?

-  By manually inputting the expected results
-  **By identifying outliers and abnormalities**  
 *Exploration helps detect data issues early, such as outliers or errors, which can distort visualizations.*
-  By creating shortcuts in the visualization
-  By setting the users' access permissions in an early stage