



# DA0-001<sup>Q&As</sup>

CompTIA Data+

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**QUESTION 1**

Which one of the following programming languages is specifically designed for use in analytics applications?

- A. Python.
- B. R
- C. C++
- D. Java.

Correct Answer: B

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**QUESTION 2**

A financial institution is reporting on sales performance to a company at the account level. Due to the sensitive nature of the government the does il with, some account information is not shown. Which of the following fields should be masked?

- A. Sales volume
- B. Start date
- C. Product name
- D. Customer name

Correct Answer: D

Explanation: Customer name is the field that should be masked, because it contains sensitive information that could identify the government accounts that the financial institution deals with. Masking is a technique that replaces or obscures sensitive data with dummy or random data, such as asterisks or hashes. Masking can help protect the privacy and security of the data, while still allowing for some analysis and reporting. Therefore, the correct answer is D.

References: [Data Masking | Definition, Techniques and Examples - Talend], [Data masking - Wikipedia]

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**QUESTION 3**

Which of the following is the BEST reason to use database views instead of tables?

- A. Views reduce the need for repetitive, complex data joins.
- B. Views allow for the storage of temporary data. whereas tables do not.
- C. Views allow for the joining of multiple data sources, whereas tables do not.
- D. Views can be used to restrict sensitive information.

Correct Answer: A

Explanation: Views are virtual tables that are created by querying one or more base tables or other views. Views do not



store any data, but only show the result of a query. One of the main advantages of using views is that they can reduce the need for repetitive, complex data joins. For example, if a query involves joining multiple tables with many conditions, creating a view can simplify the query and make it easier to reuse. Therefore, the correct answer is A. References: [What is a Database View? | Definition and Examples - Vertabelo], [Database Views - GeeksforGeeks]

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#### QUESTION 4

Joe, an analyst, tests the loading time on a dashboard he is preparing to go live and finds it is slower than he would like. Which of the following must occur to decrease the loading time?

- A. Deploy the dashboard to production.
- B. Change the field definitions.
- C. Update the dashboard subscribers.
- D. Optimize the dashboard.

Correct Answer: D

Optimizing the dashboard is the process of improving its performance and reducing its loading time by applying various techniques and best practices. Some of the common ways to optimize a dashboard are: Reducing the size and complexity of the data model, such as removing unnecessary columns, aggregating data at the source, or using data compression techniques<sup>12</sup> Leveraging caching strategies, such as setting appropriate cache refresh intervals or utilizing Power BI's built-in caching mechanisms, to minimize data retrieval delays<sup>2</sup> Utilizing query folding, direct query, or live connection to enhance data processing efficiency and enable real-time data updates<sup>23</sup> Optimizing DAX queries, such as avoiding nested calculations, using variables, or simplifying measures, to improve data calculation speed<sup>23</sup> Reducing visualizations and calculations, such as using fewer or simpler charts, filters, or parameters, to speed up dashboard rendering<sup>12</sup> Evaluating the impact of custom visuals on dashboard load time and avoiding or replacing those that are slow or inefficient<sup>2</sup> Applying aggregation and summarization techniques, such as using extract filters, context filters, or level of detail expressions, to reduce the amount of data displayed on the dashboard<sup>1</sup> Troubleshooting and resolving any issues that may cause slow dashboard load, such as network latency, server overload, or hardware limitations<sup>24</sup>

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#### QUESTION 5

A company's human resources department has asked a data analyst to categorize the income of all employees into five salary bands:



Employee_ID	Salary	Salary_band
003	\$130,000	
014	\$120,000	
004	\$110,000	
013	\$90,000	
002	\$140,000	
012	\$122,000	
016	\$132,000	
006	\$70,000	
017	\$53,000	
009	\$111,000	
019	\$107,000	
008	\$111,000	
018	\$50,000	

Which of the following types of functions would be the most appropriate to use?

- A. Statistical
- B. Aggregate
- C. Logical
- D. Mathematical

Correct Answer: C

Short explanation: Logical functions are the most appropriate to use for categorizing data into bands, because they allow the data analyst to apply conditional statements and criteria to the data values. For example, the IF function can be used to assign a band name based on whether a value meets a certain condition or not. Other logical functions that can be useful for categorizing data are AND, OR, NOT, and IFERROR12

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