

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

CompTIA Data+

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**QUESTION 1**

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 2**

The duration of a phone call in milliseconds is an example of:

- A. ordinal data.
- B. nominal data.
- C. boolean data.
- D. continuous data.

Correct Answer: D

The correct answer is D. Continuous data. Continuous data is a type of quantitative data that can take any value within a range and can be measured with infinite precision. Continuous data can be expressed as fractions, decimals, or percentages. Examples of continuous data are height, weight, temperature, time, speed, etc. The duration of a phone call in milliseconds is an example of continuous data, because it can take any value within a range (from zero to infinity) and can be measured with infinite precision (up to milliseconds or even smaller units). The duration of a phone call in milliseconds can also be expressed as fractions, decimals, or percentages of a larger unit (such as seconds, minutes, or hours). Ordinal data is not correct, because ordinal data is a type of qualitative or categorical data that can be ordered or ranked according to some criterion. Ordinal data can have a logical order, but the intervals between the values are not equal or meaningful. Examples of ordinal data are grades, ratings, ranks, etc. Nominal data is not correct, because nominal data is a type of qualitative or categorical data that can be labeled or named without any order or ranking. Nominal data can have a finite number of categories or classes, but the categories have no intrinsic value or hierarchy. Examples of nominal data are gender, color, nationality, etc. Boolean data is not correct, because boolean data is a type of binary data that can have only two possible values: true or false. Boolean data can be used to represent logical statements, conditions, or outcomes. Examples of boolean data are yes/no, on/off, 1/0, etc.

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**QUESTION 3**

Given the below:

		Conclusion from statistical analysis	
		Accept the null hypothesis	Reject the null hypothesis
The true state of nature	Null hypothesis is true	1	3
	Null hypothesis is false	2	4

Which of the following numbers represents a Type I error?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: C

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#### QUESTION 4

Which one of the following is NOT a common data integration tool?

- A. XSS
- B. ELT
- C. ETL
- D. APIs

Correct Answer: A

Cross-site Scripting (XSS) is a security vulnerability usually found in websites and/or web applications that accept user input.

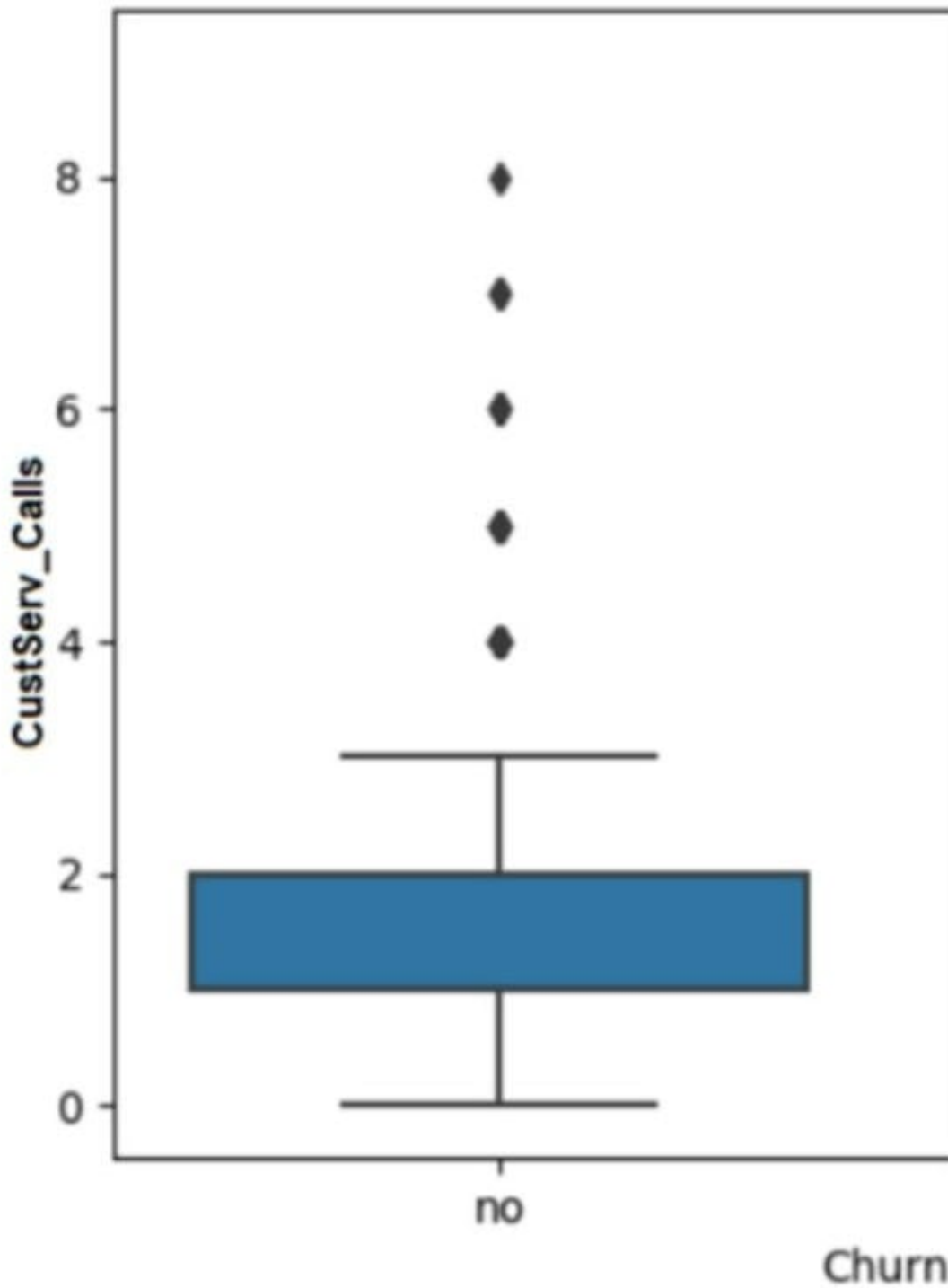
XSS is a client-side vulnerability that targets other application users, while SQL injection is a server-side vulnerability that targets the application's database. How do I prevent XSS in PHP? Filter your inputs with a whitelist of allowed

characters and use type hints or type casting.

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#### QUESTION 5

Given the image below:



The data should be cleaned because of the presence of:

- A. outlier
- B. non-parametric data.
- C. multicollinearity.
- D. invalid data.

Correct Answer: A

Explanation: The answer is A. Outlier.

Short explanation: An outlier is a data point that differs significantly from the rest of the data in a dataset. An outlier can indicate an error, an anomaly, or a rare event in the data. An outlier can affect the statistical analysis and visualization of

the data, such as skewing the mean, variance, or distribution of the data. Therefore, data should be cleaned to identify and remove or correct any outliers.

The image below shows a box plot graph with a vertical axis labeled "Customer Calls" and a horizontal axis labeled "Churn". The box plot is blue in color and the median value is around 2. There are 7 outliers above the box plot, ranging from

4 to 8.

image)

A box plot is a type of graph that can show the distribution of data values using five summary statistics: minimum, maximum, median, first quartile, and third quartile. The box represents the interquartile range (IQR), which is the difference

between the first and third quartiles. The median is shown as a line inside the box. The whiskers extend from the box to the minimum and maximum values, excluding any outliers. Outliers are shown as dots or circles outside the whiskers.

In this graph, we can see that most of the customer calls are between 0 and 4, with a median of 2. However, there are 7 outliers that have more than 4 customer calls, up to 8. These outliers may indicate some customers who have more

issues or complaints than others, or some errors or anomalies in the data collection or recording process. These outliers can affect the analysis and interpretation of the customer calls and churn relationship, such as making it seem that more

customer calls lead to less churn, which may not be true for the majority of the customers. Therefore, data should be cleaned to investigate and handle these outliers appropriately.

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