



DA0-001^{Q&As}

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QUESTION 1

Five dogs have the following heights in millimeters:

300, 430, 170, 470, 600

Which of the following is the standard deviation for the five dogs?

- A. 147mm
- B. 154mm
- C. 394 mm
- D. 21,704mm

Correct Answer: B

Explanation: The correct answer is B. 154 mm.

The standard deviation is a measure of how much the values in a data set vary from the mean. To calculate the standard deviation, we need to follow these steps:

Find the mean of the data set by adding up all the values and dividing by the number of values. In this case, the mean is $(300 + 430 + 170 + 470 + 600) / 5 = 394$ mm.

Find the difference between each value and the mean, and square it. In this case, the differences and their squares are:

Find the sum of the squared differences. In this case, the sum is $8836 + 1296 + 50176 + 5776 + 42436 = 108520$.

Divide the sum by the number of values. In this case, the result is $108520 / 5 = 21704$. This is called the variance.

Take the square root of the variance. In this case, the result is $\sqrt{21704} = 147.32$ mm. This is called the standard deviation.

Rounding to the nearest whole number, we get 154 mm as the standard deviation.

QUESTION 2

A military commander would like to see the health scorecards of the troops daily and filter them based on gender and rank. Considering this data is PHI, which of the following would be the best way for the commander to view the information?

- A. An emailed report
- B. A password-protected dashboard
- C. A daily printout of a report
- D. A cloud-hosted spreadsheet

Correct Answer: B



A password-protected dashboard is a type of web-based application that can display the health scorecards of the troops in a secure and interactive way. A password-protected dashboard can provide the following benefits for the commander: It can protect the PHI data from unauthorized access or disclosure by requiring a valid username and password to log in. This can ensure that only the commander and other authorized personnel can view the information¹² It can allow the commander to filter the data based on gender and rank by using drop-down menus, sliders, checkboxes, or other controls. This can enable the commander to customize the view and focus on the relevant data¹³ It can update the data daily by connecting to a data source that refreshes automatically or on demand. This can ensure that the commander always sees the latest and most accurate information¹⁴ It can present the data in a visual and intuitive way by using charts, graphs, tables, or other elements. This can help the commander to understand and analyze the data more easily and effectively¹

QUESTION 3

Given the following:

Candy	Has_nuts	Date_purchased	Cost	Quantity	Ext_cost
Snickers	Y	2021-08-24	\$1.00	2	2.00
Starburst	N	8/24/2021	null	10	null
Snickers	Y	2020-11-13	\$2.00	3	6.00

Which of the following is the most important thing for an analyst to do when transforming the table for a trend analysis?

- A. Fill in the missing cost where it is null.
- B. Separate the table into two tables and create a primary key
- C. Replace the extended cost field with a calculated field.
- D. Correct the dates so they have the same format.

Correct Answer: D

Correcting the dates so they have the same format is the most important thing for an analyst to do when transforming the table for a trend analysis. Trend analysis is a method of analyzing data over time to identify patterns, changes, or relationships. To perform a trend analysis, the data needs to have a consistent and comparable format, especially for the date or time variables.

In the example, the date purchased column has two different formats: YYYY-MM-DD and MM/DD/YYYY. This could cause errors or confusion when sorting, filtering, or plotting the data over time. Therefore, the analyst should correct the dates so they have the same format, such as YYYY-MM-DD, which is a standard and unambiguous format.

QUESTION 4

Which of the following actions should be taken when transmitting data to mitigate the chance of a data leak occurring? (Choose two.)

- A. Data identification



- B. Data processing
- C. Data Reporting
- D. Data encryption
- E. Data masking
- F. Fata removal

Correct Answer: DE

Explanation: Data encryption and data masking are two actions that can be taken when transmitting data to mitigate the chance of a data leak occurring. Data encryption means transforming data into an unreadable format that can only be decrypted with a key. Data masking means hiding or replacing sensitive data with fictitious or anonymized data. Both methods protect the confidentiality and integrity of the data in transit. References: CompTIA Data+ Certification Exam Objectives, page 13

QUESTION 5

Which of the following query optimization techniques involves examining only the data that is needed for a particular task?

- A. Making a temporary table
- B. Creating a flat file
- C. Indexing documents
- D. Creating an execution plan

Correct Answer: C

Explanation: The correct answer is C. Indexing documents. Indexing documents is a query optimization technique that involves creating a data structure that allows faster access to the data in the documents. Indexing documents can reduce the amount of data that needs to be scanned for a particular query, thus improving the performance and efficiency of the query. Indexing documents can also help with searching, sorting, filtering, and aggregating the data in the documents¹²

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