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QUESTION 1

Daniel is using the structured Query language to work with data stored in relational database.

He would like to add several new rows to a database table.

What command should he use?

- A. SELECT.
- B. ALTER.
- C. INSERT.
- D. UPDATE.

Correct Answer: C

INSERT The INSERT command is used to add new records to a database table. The SELECT command is used to retrieve information from a database. It's the most commonly used command in SQL because it is used to pose queries to the database and retrieve the data that you're interested in working with. The UPDATE command is used to modify rows in the database. The CREATE command is used to create a new table within your database or a new database on your server.

QUESTION 2

When analyzing the values of two variables, you decide to convert both variables so they are on a scale of 0 to 1.

What term describes this action?

- A. Filtering.
- B. Normalization.
- C. Transposition.
- D. Aggregation.

Correct Answer: B

Normalization is the process of reorganizing data in a database so that it meets two basic requirements: There is no redundancy of data, all data is stored in only one place. Data dependencies are logical, all related data items are stored together. Put simply, data normalization ensures that your data looks, reads, and can be utilized the same way across all of the records in your customer database. This is done by standardizing the formats of specific fields and records within your customer database.

QUESTION 3

Which of following is a non-relational database?



- A. Neo4j
- B. SQLite
- C. MySQL
- D. PostgreSQL

Correct Answer: A

Neo4j is a type of non-relational database that uses a graph model to store data. A graph database is a database that represents data as nodes and edges, where nodes are entities and edges are relationships between them. A graph database can store complex and diverse data that is not easily structured in tables. A graph database can also perform fast and efficient queries on the data by traversing the connections between the nodes

QUESTION 4

Five dogs have the following heights in millimeters:

300, 430, 170, 470, 600

Which of the following is the mean height for the five dogs?

- A. 394mm
- B. 405mm
- C. 493mm
- D. 504mm

Correct Answer: B

Explanation: The mean height for the five dogs is 405mm. The mean, or average, is a measure of central tendency that represents the sum of all values divided by the number of values. To calculate the mean height for the five dogs, we can

use the following formula:

Mean = $(300 + 430 + 170 + 470 + 600) / 5 = 2020 / 5 = 404$ We can round up the result to the nearest millimeter, which is 405mm. The other options are not correct, as they are either too high or too low than the actual mean. Reference:

[Mean - Math is Fun]

QUESTION 5

Under which of the following circumstances should the null hypothesis be accepted when $\alpha = 0.05$?

- A. When p is 0.00003
- B. When p is 0.001
- C. When p is 0.04



D. When p is 0.06

Correct Answer: D

The null hypothesis should be accepted when the p -value is greater than the alpha level, which is the significance level of the test. The p -value is the probability of obtaining a test statistic at least as extreme as the one observed in the sample, assuming that the null hypothesis is true. The alpha level is the probability of rejecting the null hypothesis when it is true, which is also known as a type I error¹². In this case, the alpha level is 0.05, which means that there is a 5% chance of rejecting the null hypothesis when it is true. Therefore, to reject the null hypothesis, the p -value must be less than or equal to 0.05, which indicates that the test statistic is very unlikely to occur by chance under the null hypothesis. Conversely, to accept the null hypothesis, the p -value must be greater than 0.05, which indicates that the test statistic is not very unlikely to occur by chance under the null hypothesis. Among the four options, only option D has a p -value that is greater than 0.05 ($p = 0.06$). Therefore, option D is the correct answer. When $p = 0.06$, it means that there is a 6% chance of obtaining a test statistic at least as extreme as the one observed in the sample, assuming that the null hypothesis is true. This probability is not very low, and therefore does not provide enough evidence to reject the null hypothesis.

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