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Question: 1

Which of these are ethical guidelines to be applied in data science?
Response:

A. Using data without consent for research
B. Transparency in how data models work
C. Manipulating data to fit preconceived notions
D. Sharing private data publicly for scrutiny

Answer: B

Question: 2

Why is it important to understand the strengths and weaknesses of different query languages?
Response:

A. To use only one language for all database types
B. To choose the appropriate language based on database and requirements
C. To avoid using query languages altogether
D. To complicate the data retrieval process

Answer: B

Question: 3

What is the primary goal of applying statistical and mathematical solutions in data analysis?
Response:

A. To make the analysis more complex and difficult to understand
B. To identify and interpret patterns and relationships in data
C. To rely solely on guesswork and intuition
D. To use only one type of statistical method for all data sets

Answer: B

Question: 4

What are the strengths and weaknesses of query languages like SQL and NoSQL?
(Choose two)
Response:

A. SQL excels in structured data; NoSQL is better for unstructured data
B. SQL is not suitable for any database operations
C. NoSQL offers flexibility; SQL offers better consistency
D. NoSQL cannot handle large datasets

Answer: A,C

Question: 5

Which type of database is optimized for handling large volumes of unstructured data?
Response:

A. Relational database
B. NoSQL database
C. Spreadsheet
D. Paper-based database

Answer: B

Question: 6

Why is data normalization important in data preparation?
(Choose two)
Response:

A. To ensure that different scales of data do not impact the analysis
B. To convert all data to the same value
C. To create a uniform distribution across all variables
D. To adjust values to a common scale without distorting differences in ranges

Answer: A,D

Question: 7

In the context of data analysis, what is the importance of understanding data distribution properties like mean and variance?
Response:

A. To disregard the variability of data
B. To gain insights into the central tendency and spread of data
C. To represent data inaccurately
D. To focus only on outliers

Answer: B

Question: 8

How do classification and regression differ in data analysis?
Response:

A. Classification predicts categorical outcomes; regression predicts numerical outcomes
B. They are essentially the same in all aspects
C. Regression is used for visualizing data; classification is not
D. Classification deals with numerical predictions only

Answer: A

Question: 9

What are common types of databases used in data management?
Response:

A. Spreadsheets and Word documents
B. Relational databases and NoSQL databases
C. Physical filing systems
D. Personal diaries

Answer: B

Question: 10

How can data science benefit marketing strategies?
(Choose two)
Response:

A. By predicting future trends and customer behaviors
B. Ignoring market research and customer data
C. Assisting in targeted advertising and customer segmentation
D. Solely relying on intuition without data analysis

Answer: B,C