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PRACTICE QUESTIONS

Information Technology Specialist

DATA-ANALYTICS- PEARSON-IT-SPECIALIST- CERTIFICATI

Data Analytics (Pearson IT Specialist Certification)

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

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Before you begin

What this is

9 practice questions for Information Technology Specialist **DATA-ANALYTICS-PEARSON-IT-SPECIALIST-CERTIFICATI**, each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

Send us three things and we will check it:

- the exam code, **DATA-ANALYTICS-PEARSON-IT-SPECIALIST-CERTIFICATI**
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1

MULTIPLE CHOICE

Which of the following are characteristics of structured data? (Choose two.)

- ☒ **A** Organized in rows and columns within a relational database
- ☐ **B** Stored only as images, video, and audio files
- ☒ **C** Defined by a schema that specifies data types and relationships
- ☐ **D** Free-form text from social media posts without a predefined model
- ☐ **E** Requires a NoSQL document store to be processed

ANSWER A - C

WHY Structured data is organized in a defined schema, typically rows and columns in a relational database, with clearly specified data types and relationships. Images, video, and audio (B) are unstructured, free-form text from social media (D) is unstructured, and NoSQL document stores (E) are typically associated with semi-structured or unstructured data, not the defining trait of structured data.

QUESTION 2

MULTIPLE CHOICE

A data analyst wants to summarize sales totals per region from a large transactional table. Which two operations are most appropriate to perform first? (Choose two.)

- ☒ **A** GROUP BY region
- ☐ **B** INSERT INTO a new table
- ☒ **C** Use the SUM aggregate function on the sales column
- ☐ **D** Run a linear regression model
- ☐ **E** Export the data to a CSV file

ANSWER A - C

WHY To summarize sales totals per region, the analyst needs to group rows by region (GROUP BY) and then apply an aggregate such as SUM to compute the totals. INSERT, regression, and exporting are not required to perform the summarization itself.

QUESTION 3

SINGLE CHOICE

Which data quality issue describes a column where several different values represent the same concept, such as 'NY', 'New York', and 'N.Y.'?

- ☐ A Incompleteness
- ☒ B Inconsistency
- ☐ C Uniqueness violation
- ☐ D Referential integrity error

ANSWER B

WHY Inconsistency occurs when the same real-world concept is represented by multiple, non-standardized values within a dataset. 'NY', 'New York', and 'N.Y.' are all valid spellings/forms but are inconsistent with each other, which can cause aggregation and join errors.

QUESTION 4

SINGLE CHOICE

In the ETL process, what does the 'T' for Transform typically include?

- ☐ A Reading data from the source system
- ☒ B Cleaning, aggregating, and applying business rules to the data
- ☐ C Writing the processed data to a data warehouse
- ☐ D Archiving source files to long-term storage

ANSWER B

WHY Transform is the stage where raw data is cleaned, normalized, aggregated, deduplicated, and otherwise reshaped using business rules before loading. Reading from the source is Extract (A), writing to the warehouse is Load (C), and archiving source files is not part of standard Transform.

QUESTION 5

SINGLE CHOICE

Which measure of central tendency is most appropriate for a dataset with extreme outliers?

- ☐ A Mean
- ☒ B Median
- ☐ C Mode
- ☐ D Range

ANSWER B

WHY The median is resistant to outliers because it depends only on the middle value(s) of an ordered dataset. The mean (A) is heavily skewed by extreme values, mode (C) identifies the most frequent value rather than a center, and range (D) measures spread, not center.

QUESTION 6

SINGLE CHOICE

A junior analyst needs to display how a single numeric metric changes over time across multiple categories. Which chart type is best suited to this task?

- ☐ A Pie chart
- ☐ B Scatter plot
- ☒ C Line chart
- ☐ D Treemap

ANSWER C

WHY A line chart is the standard choice for showing how a numeric metric trends over time, and multiple categories can be displayed as separate lines on the same axes. Pie charts (A) show parts of a whole, scatter plots (B) show relationships between two numeric variables, and treemaps (D) show hierarchical proportions.

QUESTION 7

SINGLE CHOICE

In a SQL SELECT statement, which clause is used to filter rows after aggregation has been applied?

- ☐ A WHERE
- ☐ B FROM
- ☒ C HAVING
- ☐ D ORDER BY

ANSWER C

WHY HAVING filters groups produced by GROUP BY based on aggregate conditions, while WHERE (A) filters individual rows before aggregation. FROM (B) specifies source tables, and ORDER BY (D) sorts the final result set.

QUESTION 8

SINGLE CHOICE

Which of the following best describes the primary purpose of descriptive analytics?

- ☐ A Predicting future outcomes based on historical data
- ☒ B Summarizing historical data to understand what has happened
- ☐ C Recommending specific actions to optimize a process
- ☐ D Determining causal relationships through controlled experiments

ANSWER B

WHY Descriptive analytics answers 'what happened?' by summarizing and aggregating historical data through reports, dashboards, and basic statistics. Predictive analytics (A) forecasts future outcomes, prescriptive analytics (C) recommends actions, and causal inference (D) is associated with diagnostic or experimental methods.

QUESTION 9

SINGLE CHOICE

A correlation coefficient of 0.92 between two variables indicates what?

- ☐ A A weak negative relationship
- ☒ B A strong positive linear relationship
- ☐ C No linear relationship
- ☐ D A perfect inverse relationship

ANSWER B

WHY A correlation coefficient close to +1 indicates a strong positive linear relationship between the variables. A value near -1 would indicate a strong negative relationship, near 0 indicates little or no linear relationship, and only -1 exactly represents a perfect inverse relationship.