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Congratulations! You passed!

Grade

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To pass 70% or

higher

Go to next item

1.

In the modern data ecosystem, what is one of the key challenges when organizing data within a data repository?

1 / 1 point

- ☐ Scalability
- ☐ Replicability
- ☒ Security
- ☐ Marketability

Expand



Correct

When organizing data, one of the key challenges is working with data repositories that provide high availability, flexibility, accessibility, and security.

2.

In the data ecosystem, what are data analysts responsible for?

1 / 1 point

- ☐ Providing business solutions based on insights and predictions
- ☒ Using the data to generate insights and identify patterns
- ☐ Converting raw data from disparate sources into usable data
- ☐ Creating predictive models based on the data

Expand



Correct

Data analysts use the collected data to generate insights.

3.

Which of the following data sources contain unstructured data?

1 / 1 point

- ☐ Emails
- ☐ Spreadsheets
- ☒ Videos
- ☐ Sensors

Expand



Correct

A video file contains unstructured data. The file's content does not have a defined structure.

4.

R is ideal for which of the following tasks?

1 / 1 point

- ☒ Developing statistical software and performing data analytics
- ☐ Accessing information from relational databases
- ☐ Creating mobile and desktop web applications quickly
- ☐ Automating repetitive tasks that are time-consuming to execute one line at a time

Expand



Correct

Widely used for developing statistical software and performing data analytics, R is especially known for its ability to create compelling visualizations, giving it an edge over some of the other languages that data professionals use.

5.

Document-based databases are ideal for storing which type of data?

1 / 1 point

- ☐ Social network information
- ☐ User preferences
- ☐ Weather data
- ☒ Medical records

Expand



Correct

Document-based databases are preferable for eCommerce platforms, medical records storage, CRM platforms, and analytics platforms.

6.

What is the function of a data integration platform?

1 / 1 point

- ☐ Locate specific data within a repository and display this data
- ☒ Combine disparate sources of data into a unified view of the data
- ☐ Extract raw data, transform the data, then load it into a repository
- ☐ Move data from its source to a destination data lake or application

Expand



Correct

Data integration platforms combine disparate sources of data, physically or logically, to provide a unified view of the data for analytics purposes.

7.

In a data platform architecture, the data analysis and user interface layer performs which of the following tasks?

0 / 1 point

- ☐ Delivers data to data consumers
- ☐ Maintains information about the data
- ☐ Makes data available for processing
- ☒ Supports querying tools and programming languages

Expand



Incorrect

Refer to the Architecting the Data Platform video.

8.

When using SQL, for what purpose should you use the STDDEV function?

1 / 1 point

- ☐ Determining the first and last values in a data set
- ☐ Calculating the rank of values in a data set
- ☐ Returning a subset of specific values in a data set
- ☒ Measuring how spread out the values are in a data set

Expand



Correct

Use the STDDEV() function to measure how spread out the numbers are in a data set. This function calculates the standard deviation.

9.

What role does an authentication system play in ensuring compliance with data governance regulations?

1 / 1 point

- ☐ Provides audit reports on which users access which data
- ☐ Converts user session data to an encoded format
- ☒ Verifies that users are who they say they are
- ☐ Ensures data access only for users who are authorized

Expand



Correct

Authentication systems verify that you are who you say you are, and they accomplish this using passwords, tokens, biometrics, or a combination of these.

10.

Which of the following is a mainstay for your career in data engineering?

1 / 1 point

- ☐ Extensive experience in public speaking and delivering presentations
- ☒ Broad understanding of the scope and use of data in business
- ☐ Professional certifications from respected online programs
- ☐ Master's degree in computer science or engineering

Expand



Correct

You can start a career in data engineering through various paths. However, your technical abilities will be your mainstay in this profession, along with a broad understanding of the scope and use of data in business.