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higher

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

1 / 1 point

- ☐ Replicability
- ☐ Scalability
- ☒ 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 engineers 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 engineers collect data from disparate sources. They clean and prepare this data, then store and manage it. Finally, they make the data accessible for business applications and other stakeholders in the data ecosystem.

3. Which of the following data sources contain unstructured data?

1 / 1 point

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

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?

0 / 1 point

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

Expand



Incorrect

Refer to the Languages for Data Professionals video.

5. Which of the following is an advantage of using relational databases?

0 / 1 point

- ☐ Optimization for low-cost hardware
- ☐ Easy backup and disaster recovery
- ☐ Unlimited length of data fields
- ☒ Data redundancy across tables

Expand



Incorrect

Refer to the RDBMS video.

6. Which of the following is a typical usage scenario for data integration?

1 / 1 point

- ☐ Front-end development
- ☐ Online transaction processing
- ☒ Master data management
- ☐ Disaster recovery

Expand



Correct

Data integration has several usage scenarios, such as data consistency across applications, master data management, data sharing between enterprises, and data migration and consolidation.

7. In a data platform architecture, the data storage and integration layer performs which of the following tasks?

1 / 1 point

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

Expand



Correct

The data storage and integration layer makes data available for processing in both streaming and batch modes.

8. When using SQL, which of the following operators could you use to search for a specific pattern in a column of data?

1 / 1 point

- ☐ BETWEEN
- ☐ ALL
- ☐ UNION
- ☒ LIKE

Expand



Correct

Use the LIKE operator to search for a specific pattern in a column.

9. What role does data erasure software play in ensuring compliance with data governance regulations?

1 / 1 point

- ☐ Updates data
- ☐ Edits data
- ☒ Overwrites data
- ☐ Deletes data

Expand



Correct

Data erasure software overwrites the data, permanently clearing the data from the system. This method for discarding data is preferable to simply deleting the data since you can still retrieve deleted data.

10. For any data engineering role, you will be expected to have knowledge of which of the following?

1 / 1 point

- ☐ Public speaking
- ☐ Application development
- ☐ Business management
- ☒ Operating systems

Expand



Correct

In any data engineering role, you would be expected to be knowledgeable of operating systems, languages, databases, and infrastructure components, in addition to data's potential application in business.