

Congratulations! You passed!

Grade
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To pass 70% or
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

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

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

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

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

- ☐ Sensors
- ☐ Spreadsheets
- ☐ Emails
- ☒ 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?

1 / 1 point

- ☐ Accessing information from relational databases
- ☒ Developing statistical software and performing data analytics
- ☐ 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?

0 / 1 point

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

Expand

Incorrect
Refer to the NoSQL video.

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

1 / 1 point

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

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 analysis and user interface layer performs which of the following tasks?

0 / 1 point

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

Expand

Incorrect
Refer to the Architecting the Data Platform video.

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

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

Expand

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

9. At which stages of the data lifecycle must you maintain an auditable trail of personal data?

0 / 1 point

- ☐ Acquisition, processing, storage, sharing, retention, and disposal
- ☐ Acquisition, processing, storage, and disposal
- ☐ Storage, sharing, and retention
- ☒ Acquisition, processing, storage, sharing, and retention

Expand

Incorrect
Refer to the Governance and Compliance video.

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

1 / 1 point

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

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.