

Congratulations! You passed!

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higher

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1. In the modern data ecosystem, what is one of the key challenges when stakeholders pull data from the enterprise data repository?

0 / 1 point

- ☐

Establishing that the compiled data scales at a sufficient rate
- ☐

Ensuring that the method of data access meets stakeholder needs
- ☐

Checking that all the raw data resides in a centralized repository
- ☒

Guaranteeing that the organizational scheme complies with security standards

↶↷

Expand

✖

Incorrect

Refer to the Modern Data Ecosystem video.

2. In the data ecosystem, what are data scientists 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 scientists analyze data for actionable insights and build machine learning or deep learning models that train on past data to create predictive models.

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

1 / 1 point

- ☐

Sensors
- ☒

Videos
- ☐

Spreadsheets
- ☐

Emails

↶↷

Expand

✓

Correct

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

4. Unix/Linux shell is ideal for which of the following tasks?

1 / 1 point

- ☐

Creating mobile and desktop web applications quickly
- ☐

Accessing information from relational databases
- ☒

Automating repetitive tasks that are time-consuming to execute one line at a time
- ☐

Developing statistical software and performing data analytics

↶↷

Expand

✓

Correct

Unix/Linux shell is most useful for repetitive tasks that may be time-consuming to execute by typing one line at a time.

5. What is the primary advantage of using NoSQL databases?

1 / 1 point

- ☐

Compliance with principles of atomicity, consistency, isolation, and durability (ACID)
- ☐

Ease of use for export and import options, simplifying backup and restore
- ☐

Maturity of the technology with extensive documentation and support
- ☒

Ability to handle large volumes of structured, semi-structured, and unstructured data

↶↷

Expand

✓

Correct

The primary advantage of NoSQL is its ability to handle large volumes of structured, semi-structured, and unstructured data.

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

0 / 1 point

- ☐

Disaster recovery
- ☐

Master data management
- ☐

Front-end development
- ☒

Online transaction processing

↶↷

Expand

✖

Incorrect

Refer to the Data Integration Platforms video.

7. In a data platform architecture, the data collection, or ingestion, layer performs which of the following tasks?

0 / 1 point

- ☐

Transforms data
- ☒

Delivers processed data
- ☐

Supports querying tools
- ☐

Maintains metadata

↶↷

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

- ☒

Measuring how spread out the values are in a data set
- ☐

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

↶↷

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 data erasure software play in ensuring compliance with data governance regulations?

1 / 1 point

- ☐

Edits data
- ☐

Updates data
- ☐

Deletes data
- ☒

Overwrites 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

- ☒

Operating systems
- ☐

Business management
- ☐

Public speaking
- ☐

Application development

↶↷

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.