

✔ Congratulations! You passed!

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higher

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1. In the modern data ecosystem, what is the first step to working with data?

0 / 1 point

- ☐ Pulling a copy of the data from the original sources into a data repository
- ☒ Organizing and optimizing the data and ensuring it meets compliance requirements
- ☐ Collaborating with stakeholders and acting on their insights
- ☐ Using tools, applications, and infrastructure to disseminate data

Expand

✘ Incorrect
Refer to the Modern Data Ecosystem video.

2. In the data ecosystem, what are data scientists responsible for?

1 / 1 point

- ☐ 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
- ☐ 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 structured data?

1 / 1 point

- ☐ Tweets
- ☐ Emails
- ☐ Sensors
- ☒ Spreadsheets

Expand

✔ Correct
Spreadsheets are an example of structured data since data within a spreadsheet has a well-defined structure that can be represented in a tabular manner with rows and columns.

4. SQL is ideal for which of the following tasks?

1 / 1 point

- ☒ 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
- ☐ Creating mobile and desktop web applications quickly

Expand

✔ Correct
SQL is a querying language designed for accessing and manipulating information mostly, but not exclusively, from relational databases.

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

1 / 1 point

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

Expand

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

6. What is the function of a data integration platform?

1 / 1 point

- ☐ Locate specific data within a repository and display this data
- ☐ Extract raw data, transform the data, then load it into a repository
- ☒ Combine disparate sources of data into a unified view of the data
- ☐ 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 storage and integration layer performs which of the following tasks?

1 / 1 point

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

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

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

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
- ☐ Deletes data
- ☐ Edits 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

- ☐ Application development
- ☒ Operating systems
- ☐ Business management
- ☐ 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.