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item

1.

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

0 / 1 point

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

↶ ↷

Expand

Incorrect

Refer to the Modern Data Ecosystem video.

2.

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

0 / 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

Incorrect

Refer to the Key Players in the Data Ecosystem video.

3.

Which of the following data sources contain structured data?

1 / 1 point

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

↶ ↷

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.

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.

What is the primary advantage of using NoSQL databases?

1 / 1 point

- ☐ Ease of use for export and import options, simplifying backup and restore
- ☐ Compliance with principles of atomicity, consistency, isolation, and durability (ACID)
- ☐ 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.

What is the relationship between data pipelines and data integration?

1 / 1 point

- ☒ A data pipeline is a process used to perform data integration.
- ☐ A data pipeline is a subprocess within data integration.
- ☐ Data integration is a process that functions separately from the data pipeline.
- ☐ Data integration is a process used to create a data pipeline.

↶ ↷

Expand

Correct

A data pipeline is a process used to perform data integration, while ETL is a process within data integration.

7.

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

0 / 1 point

- ☐ Maintains metadata
- ☐ Delivers processed data
- ☒ Transforms data
- ☐ Supports querying tools

↶ ↷

Expand

Incorrect

Refer to the Architecting the Data Platform video.

8.

When using SQL, which of the following functions can you use to count the number of unique values in a column?

0 / 1 point

- ☐ COUNT
- ☒ UNIQUE
- ☐ PRIMARY KEY
- ☐ DISTINCT

↶ ↷

Expand

Incorrect

Refer to the Querying and Analyzing Data video.

9.

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

1 / 1 point

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

↶ ↷

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

- ☐ Professional certification
- ☐ Presentation experience
- ☐ Academic degree
- ☒ Technical abilities

↶ ↷

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.