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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
- ☐ Scalability
- ☐ Marketability
- ☐ 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 scientists responsible for?

1 / 1 point

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

↗ 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

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

↗ 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

- ☐ 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
- ☐ 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. Document-based databases are ideal for storing which type of data?

0 / 1 point

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

↗ Expand

Incorrect
Refer to the NoSQL video.

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

1 / 1 point

- ☒ Combine disparate sources of data into a unified view of the data
- ☐ Extract raw data, transform the data, then load it into a repository
- ☐ Move data from its source to a destination data lake or application
- ☐ Locate specific data within a repository and display this data

↗ 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
- ☐ Maintains information about the data
- ☐ Delivers data to data consumers
- ☒ 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, for what purpose should you use the STDDEV function?

1 / 1 point

- ☒ Measuring how spread out the values are in a data set
- ☐ Calculating the rank of values in a data set
- ☐ Returning a subset of specific values in a data set
- ☐ Determining the first and last 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. At which stages of the data lifecycle must you maintain an auditable trail of personal data?

1 / 1 point

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

↗ Expand

Correct
Compliance requires organizations to maintain an auditable trail of personal data through its lifecycle, which includes acquisition, processing, storage, sharing, retention, and disposal of data.

10. Which of the following is a mainstay for your career in data engineering?

1 / 1 point

- ☐ Extensive experience in public speaking and delivering presentations
- ☒ Broad understanding of the scope and use of data in business
- ☐ Master's degree in computer science or engineering
- ☐ Professional certifications from respected online programs

↗ 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.