

✔ Congratulations! You passed!

Grade

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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?

1 / 1 point

- ☐ Checking that all the raw data resides in a centralized repository
- ☐ Establishing that the compiled data scales at a sufficient rate
- ☒ Ensuring that the method of data access meets stakeholder needs
- ☐ Guaranteeing that the organizational scheme complies with security standards

Expand

✔ Correct

When stakeholders pull data from the enterprise data repository, one of the key challenges is ensuring that the method of data access meets stakeholder needs.

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

1 / 1 point

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

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

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

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

- ☐ Creating mobile and desktop web applications quickly
- ☐ Accessing information from relational databases
- ☒ Developing statistical software and performing data analytics
- ☐ 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?

1 / 1 point

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

Expand

✔ Correct

Document-based databases are preferable for eCommerce platforms, medical records storage, CRM platforms, and analytics platforms.

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

1 / 1 point

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

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?

1 / 1 point

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

Expand

✔ Correct

The data analysis and user interface layer delivers processed data to data consumers.

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
- ☐ Returning a subset of specific values in a data set
- ☐ Calculating the rank of 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, retention, and disposal
- ☐ Storage, sharing, and retention
- ☐ Acquisition, processing, 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
- ☐ Professional certifications from respected online programs
- ☐ Master's degree in computer science or engineering
- ☒ Broad understanding of the scope and use of data in business

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.