

Congratulations! You passed!

Grade  
received 90%

Latest Submission  
Grade 70%

To pass 70% or  
higher

Go to next item

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

- ☐

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
- ☐

Establishing that the compiled data scales at a sufficient rate

Expand

Incorrect

Refer to the Modern Data Ecosystem video.

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

0 / 1 point

- ☐

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
- ☒

Providing business solutions based on insights and predictions

Expand

Incorrect

Refer to the Key Players in the Data Ecosystem video.

3. Which of the following data sources contain semi-structured data?

0 / 1 point

- ☐

Spreadsheets
- ☒

Tweets
- ☐

Sensors
- ☐

Emails

Expand

Incorrect

Refer to the Overview of the Data Engineering Ecosystem video.

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

1 / 1 point

- ☐

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

Accessing information from relational databases
- ☐

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

- ☐

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

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

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

Maturity of the technology with extensive documentation and support

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

- ☒

Combine disparate sources of data into a unified view of the data
- ☐

Locate specific data within a repository and display this 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

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

- ☐

Maintains information about the data
- ☐

Supports querying tools and programming languages
- ☒

Makes data available for processing
- ☐

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, 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. 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. For any data engineering role, you will be expected to have knowledge of which of the following?

1 / 1 point

- ☐

Application development
- ☐

Business management
- ☐

Public speaking
- ☒

Operating systems

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.