✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
100%

Loading Data

LATEST SUBMISSION GRADE

100%

1. As a data science practitioner, which of the following should be considered before loading your data into its ultimate destination?

1 / 1 point

- ● Storage capacity, memory capacity, and pipeline integration
- ○ Budget, schedule, and pipeline integration
- ○ Storage capacity, memory capacity, and budget
- ○ Memory capacity, pipeline integration, and schedule

✓ **Correct**
Data loading considerations would include these three, as well as the choice of data storage technology and format and facilitating collaboration.

2. What are some advantages of loading your dataset to a database server?

1 / 1 point

- ○ Easy open access to the dataset for the whole enterprise.
- ● Availability and centralized authentication, authorization, and monitoring, which supports confidentiality and integrity.
- ○ The dataset can be accessed when needed for the data science project.
- ○ The dataset can be fractured into multiple copies.

✓ **Correct**
Database servers will enable access control to be applied based on the authenticated identity of a user or process. By monitoring access, attempts to modify the data can be tracked and audited for compliance with policy.

3. How can data loaded into a `DataFrame` be stored in a persistent format?

1 / 1 point

- ○ Write the `DataFrame` to a text file.
- ● Write the `DataFrame` to a pickle file.
- ○ Write the `DataFrame` to a JSON file.
- ○ Write the `DataFrame` to a CSV file.

✓ **Correct**
A pickle file is a binary format that will store the `DataFrame` object directly, without any modification. This will provide the densest storage.

4. When would loading data to a text file be acceptable?

1 / 1 point

- ○ Where authentication for access control is essential.
- ○ As a large dataset export where confidentiality is not a concern.
- ○ As the most flexible format in a high security environment.
- ● As a simple export for compatibility where confidentiality is not a concern.

✓ **Correct**
This would be the best use case, as text files are highly compatible with most systems and do not automatically provide data confidentiality.

5. Most ETL endpoints are implemented as what type of API?

○ AWS API

○ HTML API

○ JSON API

◉ RESTful API

✓ **Correct**

ETL endpoints usually use an API based on the representational state transfer (REST) architecture to provide access to the prepared data.

6. Which of the following tools enables data visualization without programming?

○ Seaborn

◉ Tableau

○ Matplotlib

○ ggplot2

✓ **Correct**

Tableau is a suite of products that can read data in different forms and create visualizations without any programming.

○ AWS API

○ HTML API

○ JSON API