* Overview of File Format Conversion
* Review Schema Details in JSON Format
* Develop function to return column names
* Read data from csv into dataframe using schema
* Print number of records from each data set
* Write data in JSON format to files
* Compute overall execution time
* Validate data in JSON files using Pandas
* Exercise and Solution

1. What is the purpose of file format conversion using Pandas?

A) To make data compatible with different software applications

B) To improve data accuracy

C) To make data more accessible

D) All of the above

Answer: D) All of the above

1. Which file format is commonly used to store data in a tabular form?

A) CSV

B) JSON

C) XML

D) HTML

Answer: A) CSV

1. Which of the following formats is used to describe the structure of JSON data?

A) JSON-S

B) JSON-SCHEMA

C) JSON-STRUCT

D) JSON-DATA

Answer: B) JSON-SCHEMA

1. Which function is used to read data from a CSV file into a Pandas dataframe?

A) pd.read\_json()

B) pd.read\_csv()

C) pd.read\_excel()

D) pd.read\_sql()

Answer: B) pd.read\_csv()

1. How can you print the number of records in a Pandas dataframe?

A) print(df)

B) print(df.shape)

C) print(df.columns)

D) print(df.info())

Answer: B) print(df.shape)

1. Which function is used to write data in JSON format to a file?

A) pd.to\_json()

B) pd.to\_csv()

C) pd.to\_excel()

D) pd.to\_sql()

Answer: A) pd.to\_json()

1. How can you compute the overall execution time of a Python script?

A) By using the time module

B) By using the datetime module

C) By using the pandas module

D) By using the numpy module

Answer: A) By using the time module

1. How can you validate data in JSON files using Pandas?

A) By using the validate() method

B) By using the assert() method

C) By using the isnull() method

D) By using the equals() method

Answer: A) By using the validate() method

1. Which of the following is not a valid data type in JSON?

A) string

B) integer

C) float

D) tuple

Answer: D) tuple

1. Which function can be used to return the column names of a Pandas dataframe?

A) df.columns()

B) df.head()

C) df.info()

D) df.describe()

Answer: A) df.columns()