Python + SQL + Tableau:
Integrating Python, SQL, and Tableau

Quiz Questions

What is Software Integration?

2 Properties and Definitions: Data, Servers, Clients, Requests and Responses

Which of the following is incorrect?

    a. "Data" means information stored in the form of symbols – 1s and 0s, other digits, letters, special characters, and more
    b. Data represents information stored in an electronic format only
    c. Data can be collected, measured, analysed, and processed further
    d. Data today is generally stored in databases

Which of the following is considered a common type of server?

    a. Web servers
    b. Database servers
    c. FTP servers
    d. All the above

3 Properties and Definitions: Data Connectivity, APIs, and Endpoints

What is data connectivity about?

Choose the best answer.

    a. Connecting servers to exchange any type of data
    b. Connecting clients to help them exchange mobile data
    c. It regards the ability to connect clients and servers
    d. Exchanging limited amounts of information between clients and servers

Select the wrong answer.

 a. Data connectivity today exists because of the use of APIs
 b. Programming simply refers to the function an app performs
 c. In the context of data connectivity, application refers to the ability to connect a software product to another
 d. Conceptually, APIs function like how we connect an audio system to its loudspeakers

4 Further Details on APIs

Which of the following doesn't concern the use of APIs?

 a. APIs are a collection of endpoints
 b. To process your requests, an API does require maintenance
 c. Maintaining an API does naturally imply covering costs in terms of resources such as time and money
 d. Security isn't a big problem for APIs

Which of the following phenomena isn't addressed by the use of APIs?

 a. The extremely quick change of data
 b. The dynamic change of endpoints through which APIs can be connected
 c. Retrieving a specific bit from the entire dataset
 d. The size of the databases storing information could be huge

5 Text Files and Means of Communication

When it comes to communication between software products, which of the following text file formats is less popular?

 a. TXT
 b. JSON
 c. XML
 d. CSV

6 Definitions and Applications

Indicate the right answer:

 a. The idea of using software integration is to enhance the functionality and the performance of an already existing application
 b. A software integration is only about setting up multiple software tools to work as one tool

    c.   There are generally five types of software integration
    d.   Due to being extremely difficulty to create, software integration is rarely applied across companies and organizations

When integrating SQL, Python, and Tableau, one could:

    a.   use SQL to organize, keep, and manipulate data stored in a database
    b.   apply various statistical analysis tools to make predictions in Python
    c.   use Tableau to visualize the information obtained from previous analysis
    d.   all the above

Setting Up the Working Environment

8 Why Python and Why Jupyter?

What is "Jupyter"?

    a.   A software that transforms Python and some other languages into 1s and 0s
    b.   A server-client application
    c.   A specific group of language kernels
    d.   An environment where language kernels are related to specific hardware parts

What is the default type of file in Jupyter that allows us to store Python code?

    a.   Regular Notebook type of file
    b.   Dot py (*.py)
    c.   IPython Notebook file (*.ipynb)
    d.   None of the above

11 The Jupyter Dashboard – Part 2

Which of the following options cannot be applied to an IPython Notebook file that is currently running?

    a.   Rename it
    b.   Shut it down
    c.   Duplicate it
    d.   Delete it

Which type of cell does not exist in Jupyter?

    a.   Code
    b.   Markdown
    c.   Picture
    d.   None of the above

What is the shortcut combination for deleting a selected cell in a Notebook Document?

    a.   "A"
    b.   "B"
    c.   "D" Twice
    d.   "X"

What's next in the Course?

18 Real-Life Example: The Dataset

Which of the following can be considered primary data?

    a.   Data bought from an organization doing economic consulting
    b.   Any data that hasn't been preprocessed
    c.   Data obtained from the answers of a survey or a questionnaire
    d.   Paid data, downloaded from an online website