



## **QA Automation Assignment**

Hi there!

Thanks for trying out for the QA automation role.

The following is a proficiency task, we're looking to learn how you approach and handle the problems. So please, write as detailed as you think is necessary to answer our questions and share all documents, DB's, scripts, readme files needed.

You can use any online resource available.

We encourage you to ask questions, feel free to talk to us at any time.

Good luck!



Optival's business unit is performing comparisons between sites (a kind of "Zap" for different industries). As part of Optival's communication with the customer, we get reports in various ways (online platform, mail, etc.) and in various formats such as csv. Today we have a legacy system that is not performing well that is extracting a big amount of data from these several resources.

Currently, we are implementing a new scalable system that is more robust and reliable. In the implementation part, we need to validate the data accuracy.

1. In the following task, you will compare 2 tables, one of the legacy system and the other of the new system. We will call them "Legacy DB" and "Scalable DB"
  - a. Use the fields mapping tab and prepare automated tests for comparing the two tables in the attached excel file "QA home assignment 2021". **The combination of "Brand\_Action\_Date" + "User\_unique\_ID" are the unique keys for Legacy DB and "ACID" + "period" are the unique keys for Scalable DB.** The answers to the questions can be restored in Github repo or CSV file :
    - i. Are the number of rows in Legacy DB the same as Scalable DB?
    - ii. What rows are in Legacy DB and not in Scalable DB?
    - iii. What rows are in Scalable DB and not in Legacy DB?
  - b. Based on your previous test results, our engineering team would like to know if they need to adjust the data in one of the tables, please share your findings
  - c. Given the above, in the near future, we will have hundreds of DB tables containing millions of records that will need to be compared/validated in an ongoing way. Describe the method you will use to scale this QA analytics process up
2. Launch the following URL- <https://techdemotbaseo.kinsta.cloud/>  
Write a word/excel STD document that contains your top 3 use cases for this site.  
Write a UI automation test based on the STD and share your code on Github.  
(password = optivalqa)