

Dear Candidate,

Thank you for taking the time to complete our test. Make sure to return the test within the given time frame.

Test files:

1. Test instructions (This file)
2. Excel with multiple sheets:
 - a. Q1_Bots -- Table to solve Q1
 - b. Q2_Assisting_Information – data to help you solve Q2 if needed.
 - c. Q3_Incoming_Payments & Q3_EDD_Reviews -- Tables for Q3

Submission format:

Please submit your solution - queries, graph and any text - in a separate word file.

Things to consider:

- You'll be tested on code proficiency, delivery and business/analytical knowledge.
- The code does not have to run flawlessly. Since we're sharing the data as an excel and don't expect you to setup an environment (though you're welcome to do so), the code can have minor mistakes. We're testing it on overall knowledge of writing SQL Code.
- Please use the name of the sheet as the table name when querying. At Payoneer we used MSSQL and are now with BigQuery, you're welcome to use the RDBMS syntax most familiar to you.
- This is the kind of work we do and the skills required to do so; you are not asked something unrelated to our work.

Test Questions

Question 1:

You received an alert about suspected bots registering through our platform. The registration phase has 4 steps, each requiring the user to enter information such as first and last name, addresses, purpose of user and more. A user moves on to the next step after completing the previous step.

To identify the bots you sampled a list of Customers registering and their start-time for each step. Please write a query that will print out users and a column with some measure you created that will help you identify if users are bots (The query does not need to compile seamlessly, though you're welcome to have it so)

Question 2:

In case you don't have a sql environment to run the code, we provided supporting data for this question in sheet "Q2..".

You are requested to summarize your findings to another Compliance manager explaining who are the suspected bots and how did you identify them. Please writeup your summary in 2-3 main points (no need for introductions) and add a graph supporting your findings.

You can use Excel or any other tool to create the graph; if no tool is available you can try drawing the graph you had in mind.

Question 3:

One of the compliance managers thinks we have a bug in our system affecting the Enhanced Due Diligence procedure (EDD) — a comprehensive review of customer information). The procedure requires us to review accounts before they reach a balance of 1000. In other words, before they load more than \$1,000 into their account.

Assuming the payments in sheet "Q3_Incoming_Payments" remain in balance - that is, no funds are leaving the user between payments - Write a query that will output the list of users who had their EDD review after they received a total of 1000 dollars.

The output fields are not critical (what columns you include in the output) as long as it contains only the requested list of users.

For example, user 48638892 had his EDD review after he had already loaded a total of ~\$1,108, so we'd expect to see him in the output.

// Good luck!