1. Problem

Copy the data in the file 'web-server-access-log.txt.gz' to the table 'access_log' in the PostgreSQL database 'template1'.

The file is available at the location: "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DB0250EN-

SkillsNetwork/labs/Bash%20Scripting/ETL%20using%20shell%20scripting/web-server-access-log.txt.gz".

The following are the columns and their data types in the file:

- a. timestamp TIMESTAMP
- b. latitude float
- c. longitude float
- d. visitorid char(37)

and two more columns: accessed from mobile (boolean) and browser code (int)

The columns which we need to copy to the table are the first four columns: timestamp, latitude, longitude and visitorid.

NOTE: The file comes with a header. So, use the 'HEADER' option in the 'COPY' command.

The problem may be solved by completing the following tasks:

Task 1: Start the Postgres server.

Task 2: Create the table.

Create a table named access log to store the timestamp, latitude, longitude and visitorid.

- Task 3. Create a shell script named cp-access-log.sh and add commands to complete the remaining tasks to extract and copy the data to the database.
- Task 4. Download the access log file.
- Task 5. Unzip the gzip file.
- Task 6. Extract required fields from the file.
- Task 7. Redirect the extracted output into a file.
- Task 8. Transform the data into CSV format.
- Task 9. Load the data into the table access_log in PostgreSQL
- Task 10. Execute the final script.
- Task 11. Verify by querying the database.