*Thank you again for taking the time to interview with Data.ai for the GSR Engineer role based in India supporting our Global team.*

*This exercise is relatively simple and consists of collecting data from our Data.ai Ascend Reporting API and inserting it into an SQL database. For this exercise,* ***in order to be able to retrieve data from the API, use the parameter allow\_mock=true****.*

## **[A] Back-End** Exercise

1. Create a **Python** script that   
   **(1)** receives some input parameters and is run via a terminal,   
    E.g.: DATE\_START=2023-01-01  
    DATE\_END=2023-01-02  
    DIMENSIONS=app,platform  
   **(2)** using those parameters, make a call to our Reporting API - the connection information for the API is in *Appendix A* attached on Page 2 of this document, and,  
   **(3)** insert the data collected in an SQL database.
   * The script must group (group\_by) by: connection, app, platform and country or any combination among them (by default, the API already aggregates by date).
   * In addition to the specified columns, it is also necessary to collect two metrics: impressions, ad\_revenue.
   * It will be necessary to create a basic SQL structure to store this data. It can be basic, just to persist the data.

## Appendix A: Ascend Reporting API connection details

**API Endpoint**

[**GET https://api.libring.com/v2/reporting/get?allow\_mock=true**](https://api.libring.com/v2/reporting/get)

**Token/Permission**

For you to make API calls you this token: **RVyGynEAbqIfuidTkiYvKdEnn**

| header | ‘Authorization’=>”Token TOKEN\_CODE” |
| --- | --- |

**Parameters**

**allow\_mock=true**

**period=custom\_date**

**start\_date=YYYY-MM-DD**

**end\_date=YYYY-MM-DD**

**group\_by=connection,app,platform,country**

**lock\_on\_collection=false**