Dhamotharan Palanisamy

[dhamuIT@gmail.com](mailto:dhamuIT@gmail.com)

94240549

CC4.0 Brain Team Challenges:

1 . Set up lambda :

○ Configuration: you may choose terraform or serverless

○ Preferred language: Python

**Ans :** Created serverless of lambda function setup with CloudFormation in yaml file – Please refer the attachment name called “**Restaurant\_LambdaSetup\_CF.yaml**”

Note\*\* upload the **lambda.zip** to S3 bucket and update the AWS account level details in yaml and proceed to CloudFormation stack deployment.

2. Data extraction (Please refer to the data link above) Please extract the following fields and store the data as .csv

**Ans :** created the python script to generate the (i & ii). python package name “lambda\_function.py” or on server/local machine to test “**Restaurant\_DataAnalysis.py**”

1. Explanation : Source & country data it downloads directly from given link and reads the restaurants list and loop the nested process to extract the restaurant details and join lookup to country excel data and generated the file. Attachment file name: **01\_Restaurants\_Data\_extraction.csv**
2. Partially completed :( Same process added one more list on Zomato events and tried to join multiple DataFrame to publish – somehow I have generated – but still need to add date filter and remove the duplicate matches as well. Attachment file name: “**02\_Event\_ResData\_extraction.csv**”

3. Optional write-up challenge: Scenario question: Every start of the week Terence will get a new snapshot of data in s3 bucket at 12am. What will you do to help him to set up notification on

slack or telegram, capture and share in the channel the top 10 restaurant data.

**Ans:**

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**Steps:**

1. Once user/system restaurant json file into S3 bucket(above time) I have created Lambda task event base trigger whenever given location newly file are uploaded then trigger the lambda function.
2. Once lambda completes the process it creates the CloudWatch event to touch SNS topic and once again another lambda to list top 10 restaurant data and format in message format.
3. Configure the Telegram bot API setup and ready with telegram url id, rest of details? And configure in telegram environment to access api  and add the variable of chatId, tokenid of Terence in 2nd lambda to deliver the message once S3 file available.
4. Finally at 12am – event will trigger and Terence would receive the message notification of top 10 restaurant data.