9. Create a Cloud Function which reads the messages from Pub/Sub subscription. The pubsub message contains the bucket name and object path of a json file. The Cloud Function should store the contents of the json file into an appropriate database. Use console. (Explore multiple ways of integrating cloud function with Pub/Sub)

Example contents of an object file(sample.json):

```
{
    "name" : "xyz",
    "age" : "21",
    "emp_id": "Q123"
```

- 1. Create a bucket and upload the following .json file in it: {"name":"xyz","age":"21","emp_id":"Q123"}
- 2. In your GCP Console Navigation menu, under COMPUTE, click on Cloud Functions.
- 3. Click on CREATE FUNCTION.
- 4. Give it a suitable name and set the Trigger as Cloud Pub/Sub. In the dropdown list for Topic, click on 'Create new topic...'
- 5. Set Runtime as Python 3.7
- 6. In main.py and requirements.txt, enter the following code and package name(s) respectively: main.py

```
import base64
```

from google.cloud import bigquery

```
def hello_pubsub(event, context):
    bkt = event['attributes']['bkt']
    obj = event['attributes']['obj']

client = bigquery.Client()
    dataset_ref = client.dataset('av_a1_q9')
    job_config = bigquery.LoadJobConfig()
    job_config.autodetect = True
    job_config.source_format = bigquery.SourceFormat.NEWLINE_DELIMITED_JSON

uri = "gs://" + bkt + "/" + obj
    load_job = client.load_table_from_uri(uri,dataset_ref.table("q9table"),job_config=job_config)
```

requirements.txt

Function dependencies, for example: # package>=version google-cloud-bigquery

- 7. Click on CREATE.
- 8. Now open the BigQuery console and create a new dataset.
- 9. Then, create a new table with three columns(name<varchar>, age<int>, emp_id<varchar>).
- 10. Now, go to Pub/Sub console and open the topic that you created while creating the cloud function.
- 11. Click on 'PUBLISH MESSAGE' and add the following attributes:
 - a) bkt: <your-bucket-name>
 - b) obj: <json-file-name>
- 12. Click on PUBLISH
- 13. Now open your BigQuery table and perform a select query to check the entrie(s) in the table: SELECT * FROM `pe-training.av_a1_q9.q9table` LIMIT 100