DS561-HW5 Github Link: https://github.com/tigeryi1998/ds561-tigeryi/tree/main/hw5 1. SQL Database https://console.cloud.google.com/sql/instances/instance-tigeryi/overview?project=feisty-gasket-3 98719 Public IP address 34.138.218.160 INSTANCE_CONNECTION_NAME= \ feisty-gasket-398719:us-east1:instance-tigeryi Add the following tables into the database in the following schemas: table1 ip filename time_of_day table2 is_banned ip gender age income country

filename

error

table3

time_of_day

2. Web Server VM

Instance id:

7486858492408310658

name:

instance-tigeryi

external ip:

34.138.95.195

Command Line to install python3, pip, default mysql server

```
sudo apt-get update
sudo apt-get install default-mysql-server
sudo apt-get install wget git python3-pip
```

Command Line to get the mysql server from tar file:

```
tar -xvf mysql-server_8.2.0-1debian11_amd64.deb-bundle.tar sudo apt-get install libaio1 sudo dpkg-preconfigure mysql-community-server_*.deb sudo dpkg -i mysql*.deb sudo apt-get -f install
```

Command Line in VM1 to connect to mysql database:

```
mysql -h <u>34.138.218.160</u> -u <u>root</u> -p

export INSTANCE_CONNECTION_NAME='<u>feisty-gasket-398719:us-east1:instance-tigeryi</u>'
export DB_USER='root'
export DB_NAME='<u>dbhw5</u>'
export DB_PASS=''
export DB_HOST='<u>34.138.218.160</u>'
```

Virtual Environment

```
pip3 install virtualenv
python3 -m virtualenv env
```

```
pip3 install -r requirements.txt
Run to start the web-server
python3 http-server-cloud.py
Or can install all packages and run web server with bash script
bash start.sh
3. Curl Commands
200
curl -X GET -G "http://34.138.95.195:8080/ds561-tigeryi-hw2/files/1.html" -i
404
curl -X GET -G "http://34.138.95.195:8080/ds561-tigeryi-hw2/files/20000.html" -i
500
curl -X POST -G "http://34.138.95.195:8080/ds561-tigeryi-hw2/files/1.html" -i
4. http client VM2
VM2 (http client)
name:
instance-1
external ip:
```

source env/bin/activate

34.148.138.4

Run the command line to issue html requests, after put http-client.py into the VM2

python3 http-client.py --domain=34.138.95.195 --port=8080 --bucket=/ds561-tigeryi-hw2 --webdir=files --num_requests=50000 --index=10000

5.