Project Assignment-1

Date	Day of Week	Approximate Time of day for your data access	# Sensor Readings	Total Data Saved (KBs)	# Pub/Sub messages published and received
17/04/2024	Wednesday	8:00 PM	280608	92092.88 KB	280608
18/04/024	Thursday	8:00 PM	335589	110151.15 KB	335589
19/04/2024	Friday	8:00PM	369597	88829.494 KB	369597
20/04/2024	Saturday	8:00PM	341574	112119.94 KB	341574
21/04/2024	Sunday	6:00PM	336928	80972.26 KB	336928

C. Schedule daily gather job using Cron:

```
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h  dom mon dow   command
0 20 * * * /usr/bin/python3 /home/venkatab/Pub.py
```

H.systemctl status:

```
(myenv) lakshmia@instance-20240419-231338:~$ sudo systemctl start subscribe.service
(myenv) lakshmia@instance-20240419-231338:~$ sudo systemctl status subscribe.service
● subscribe.service - My test service
     Loaded: loaded (/etc/systemd/system/subscribe.service; enabled; preset: enabled)
     Active: active (running) since Mon 2024-04-22 03:57:21 UTC; 10s ago
   Main PID: 9374 (python3)
      Tasks: 26 (limit: 4686)
     Memory: 43.5M
        CPU: 11.157s
     CGroup: /system.slice/subscribe.service
             └─9374 /home/lakshmia/myenv/bin/python3 /home/lakshmia/project_subscribe.py

Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
Apr 22 03:57:32 instance-20240419-231338 python3[9374]: Received message for vehicle 3229. Total messages r>
```

I. Scheduled VM to start and stop automatically: