

Hardware:

CPU - 11th Gen Intel(R) Core(TM) i5-1135G7 @ 2.40GHz 4 Core

RAM - 15.71 GB

Disk - SK hynix 512GB NVMe SSD

Software:

Database - MySQL 8.0.44

Programming Language - Python 3.9 (interpreter)

Libraries:

- mysql-connector-python

- pandas

<b>API Function</b>	<b>API Function Calls / Sec</b>
post_tweet	~178
get_home_timeline	16.69

My program can't come even close to twitter's needs of 6k-10k post\_tweet calls and 200k-300k timeline calls per second. I wasn't even able to get through all 1 million rows in 24 minutes of running the program. I only got a quarter of the way there. Obviously, I think the quality of my hardware affected my outcome. While the specs are quite good, I have been using this computer for quite a while and it may be bloated and run inefficiently. As for the software, I chose to index the user\_id in the tweet table and the follower\_id in the follows column. This probably slowed down the speed of inserts by quite a bit. On the other hand, very likely sped up the get\_home\_timeline calls.

Despite my speeds being quite low, I had fun with this and it was a really good refresher for CS3200.