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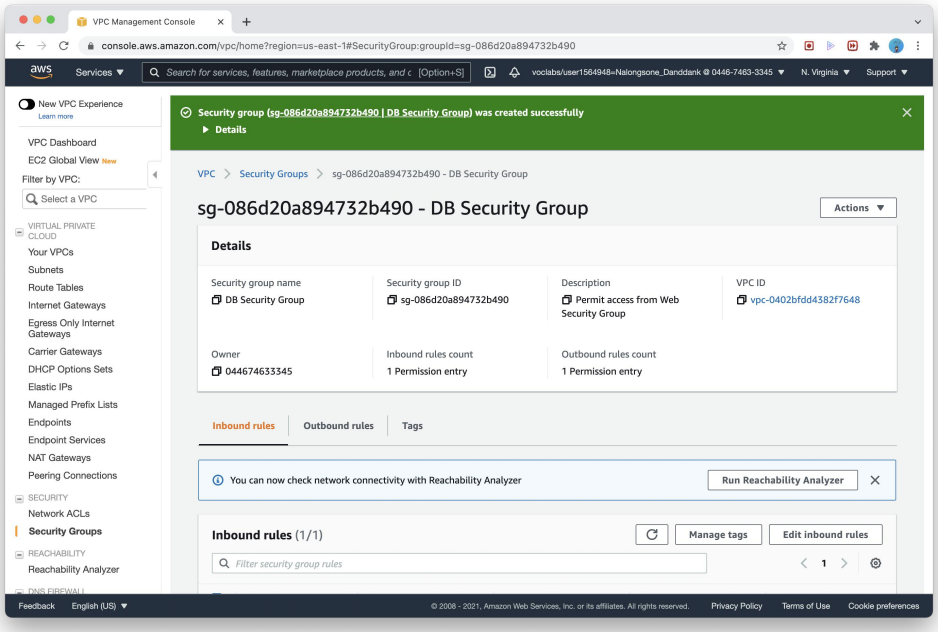
Email: nalongsone.danddank@my.metrostate.edu\

ICS 432 - 01 — Distributed and Cloud Computing Fall 2021

Lab #8 : Using Cloud Relational Database System (RDS)

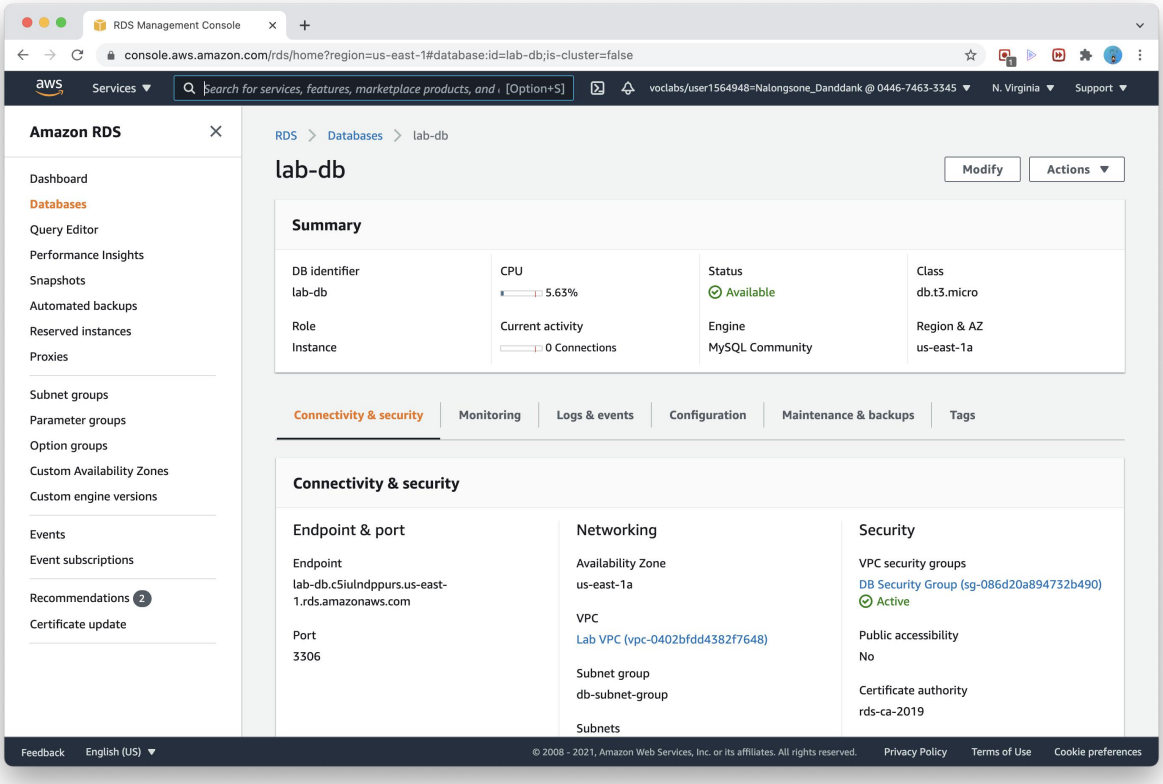
Exercise 1: Relational Databases on AWS

Lab report screen-shot #1:

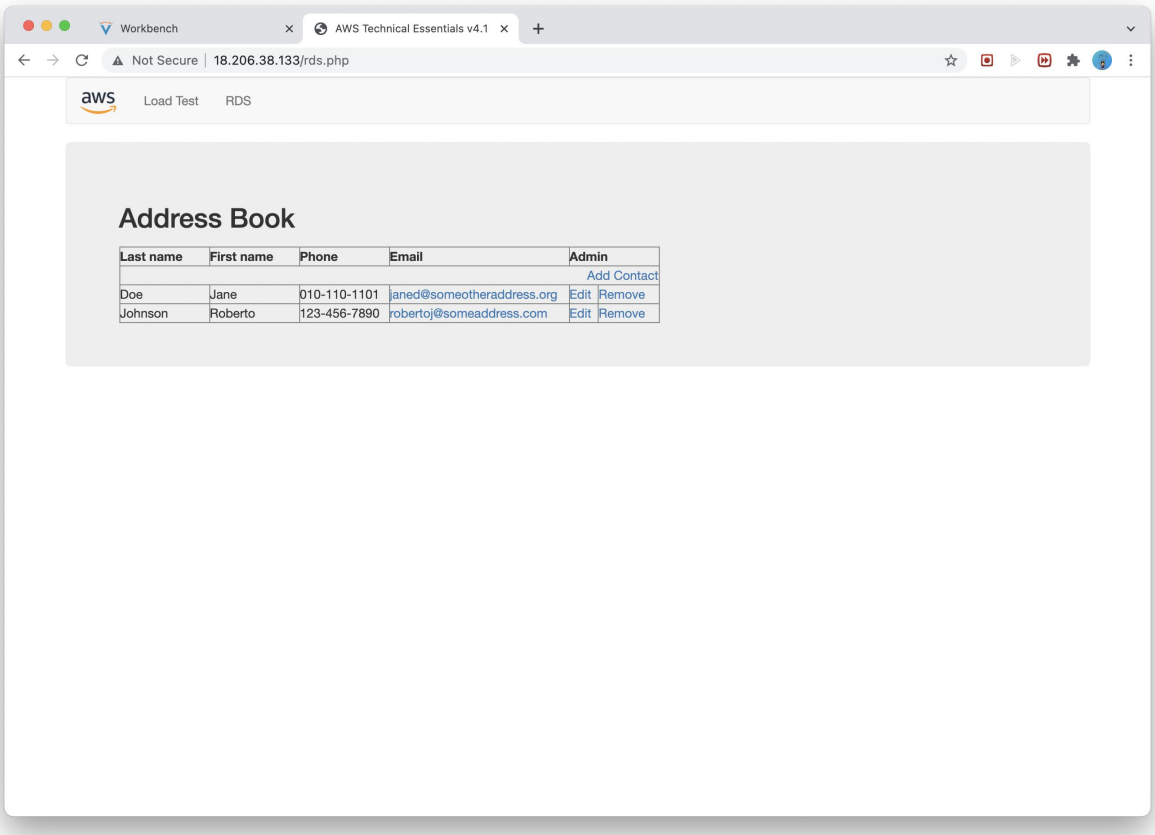


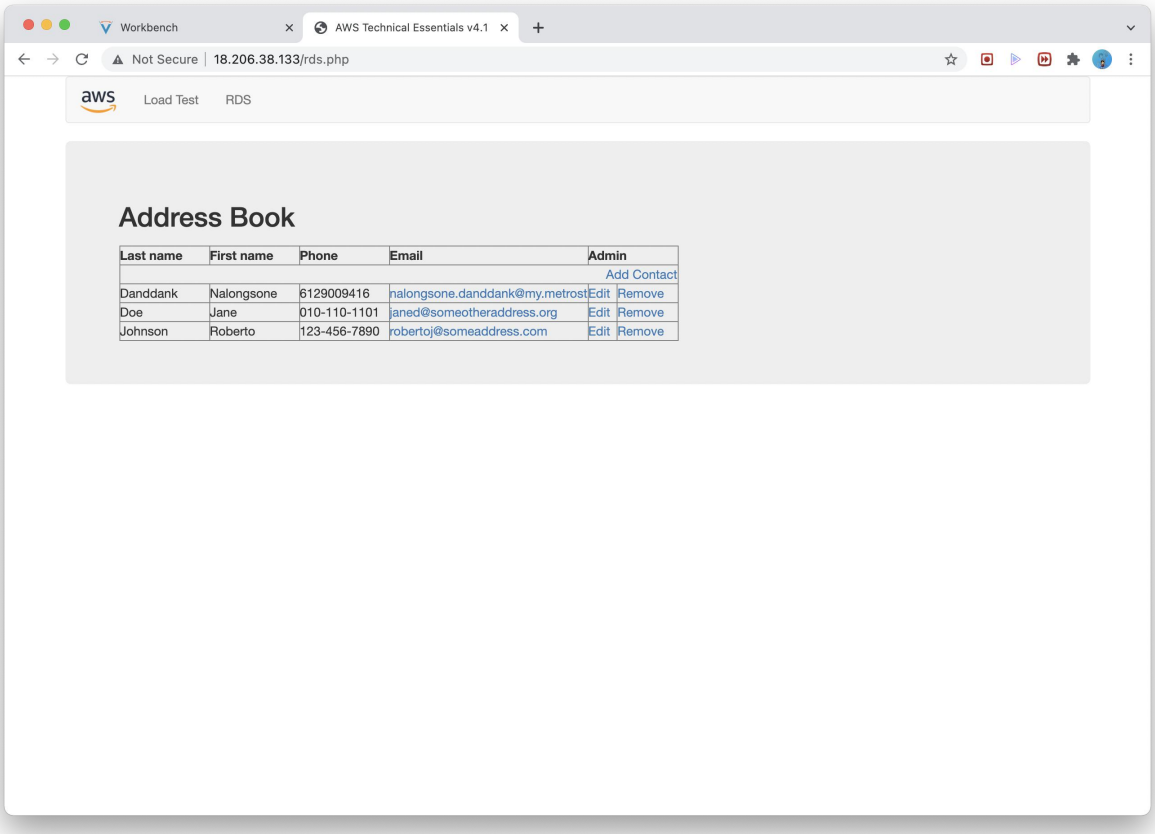
Lab report screen-shot #2:

lab–db.c5iulndppurs.us–east–1.rds.amazonaws.com



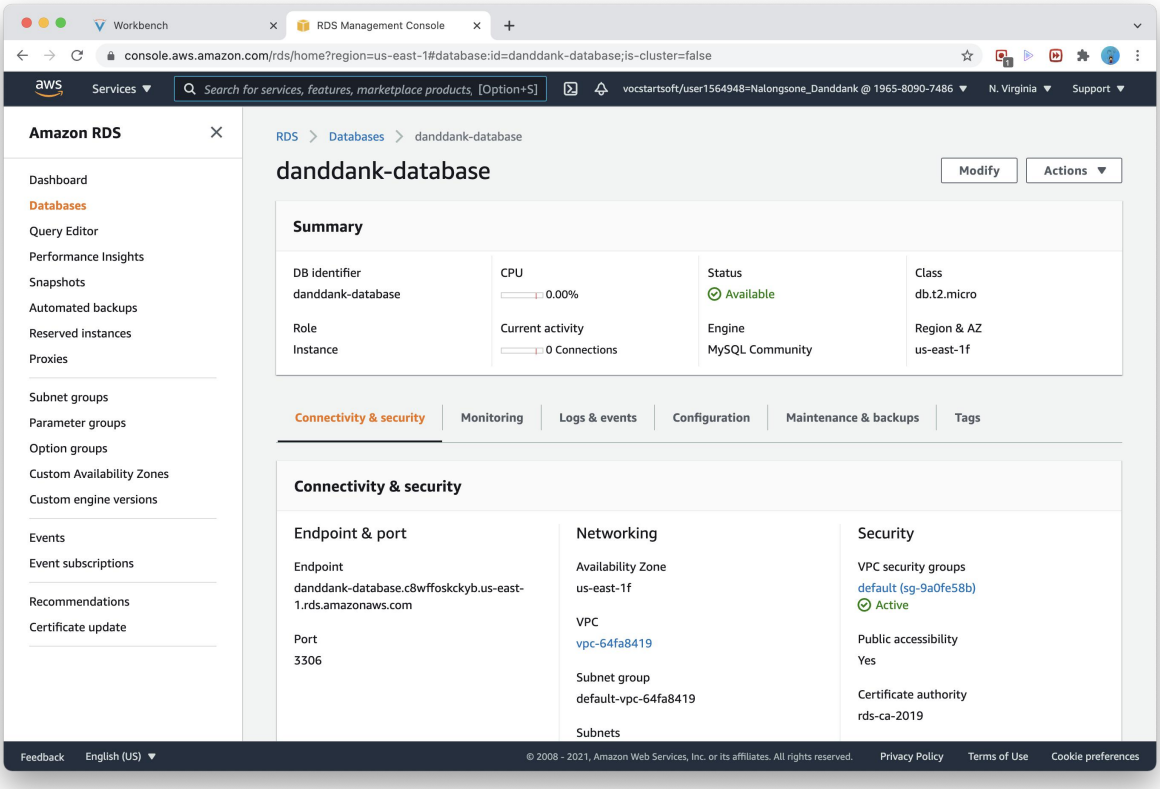
Lab report screen-shot #3:



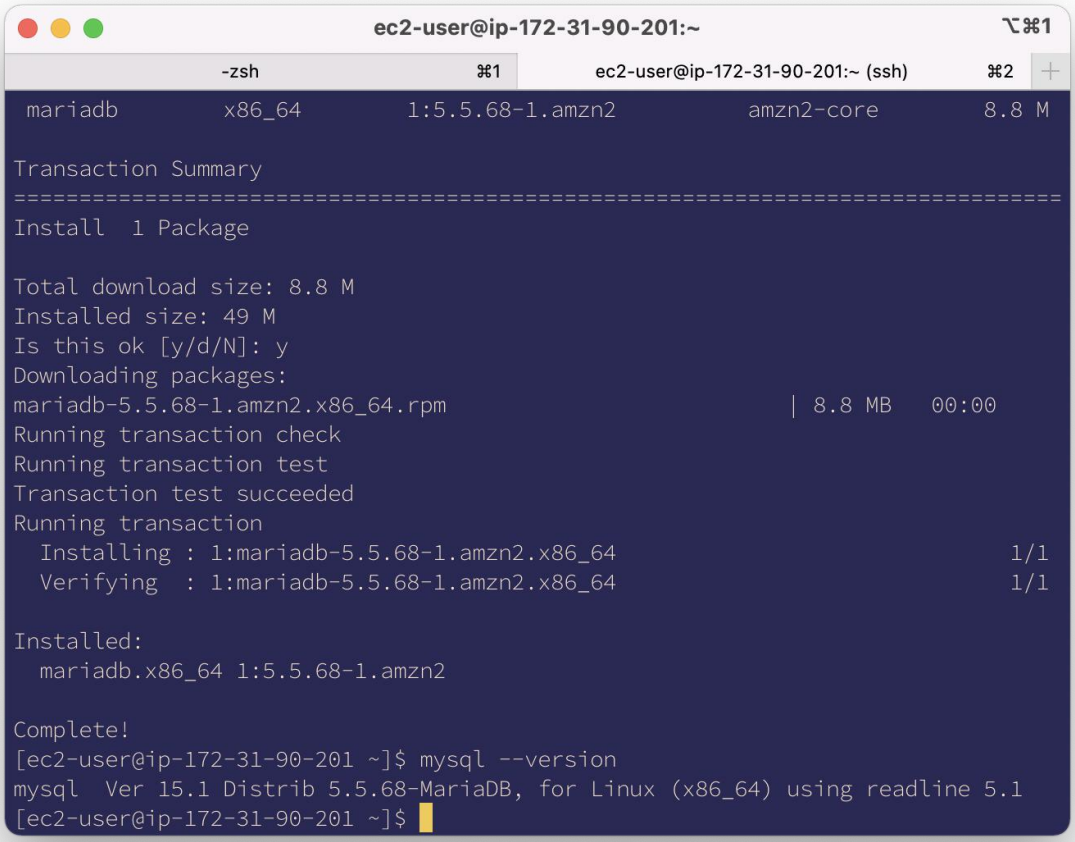


Lab report screen-shot #4:

danddank–database.c8wffoskckyb.us–east–1.rds.amazonaws.com

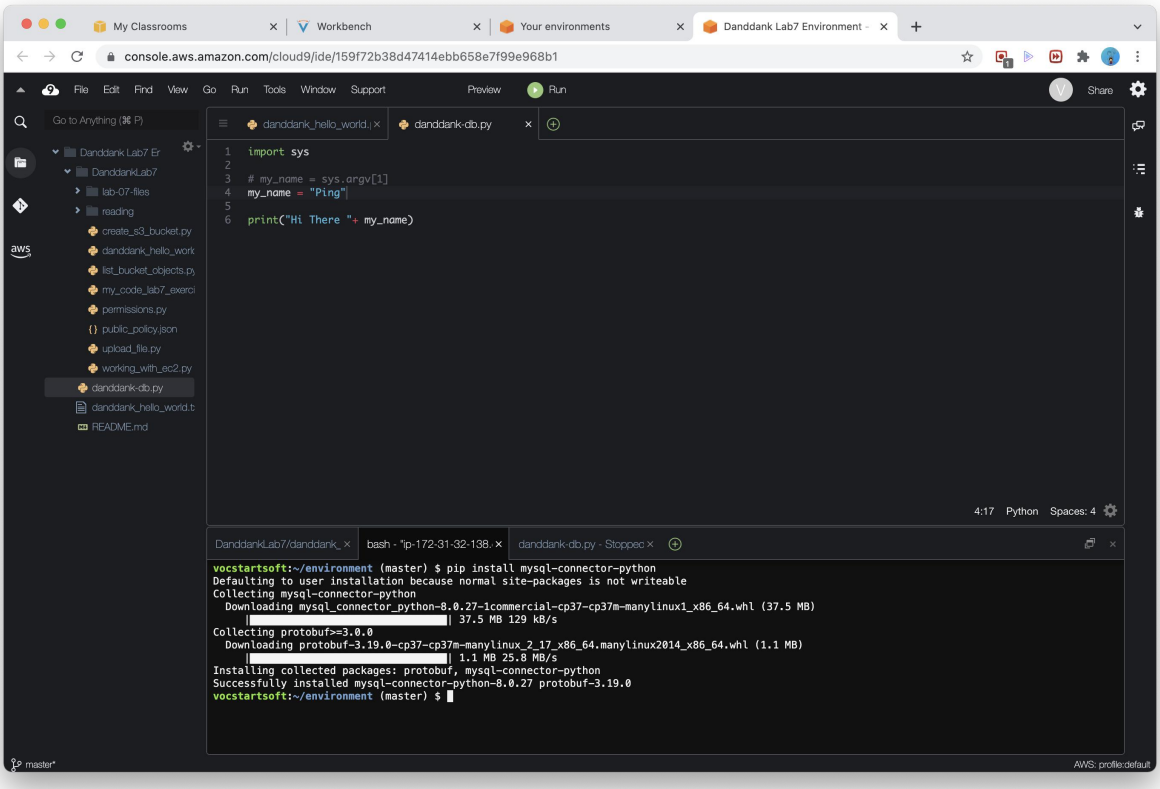


Lab report screen-shot #5:

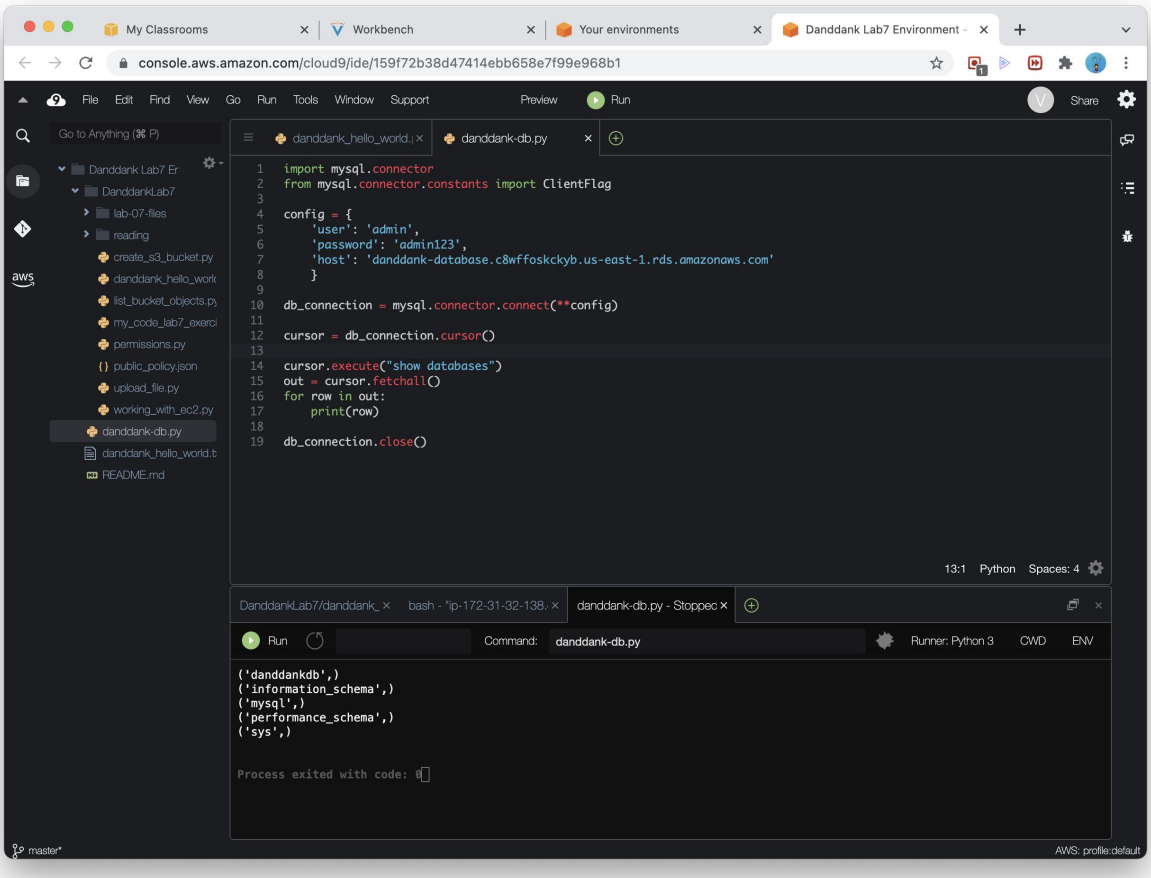


Lab report screen-shot #6:

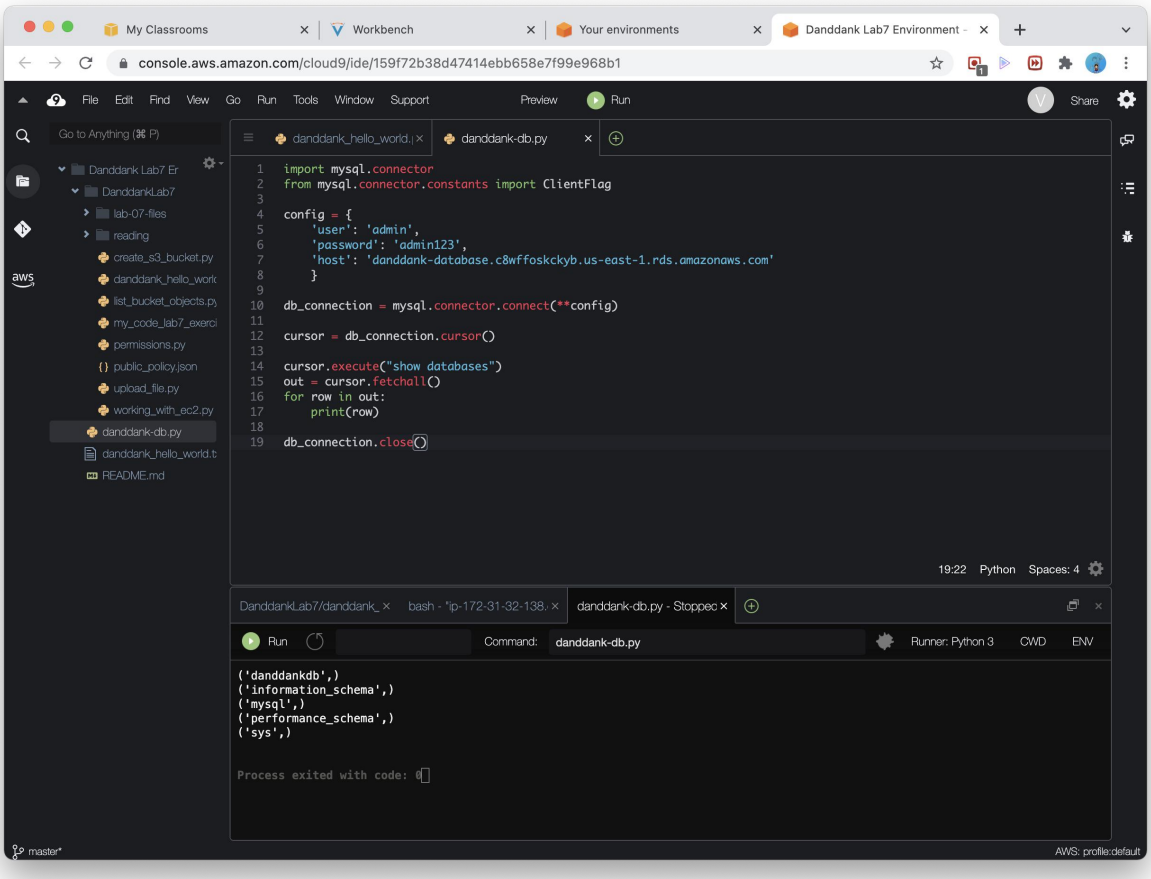
Lab report screen-shot #7:



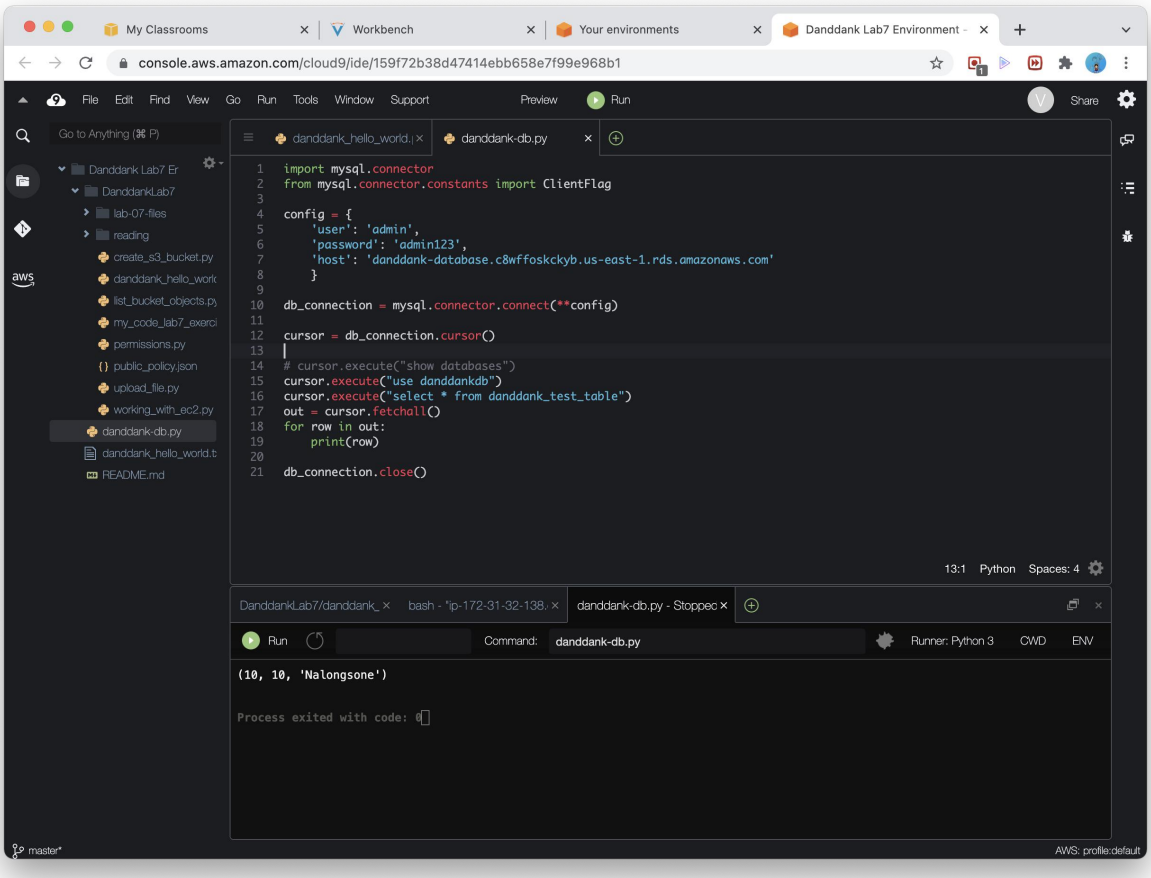
Lab report screen-shot #8:



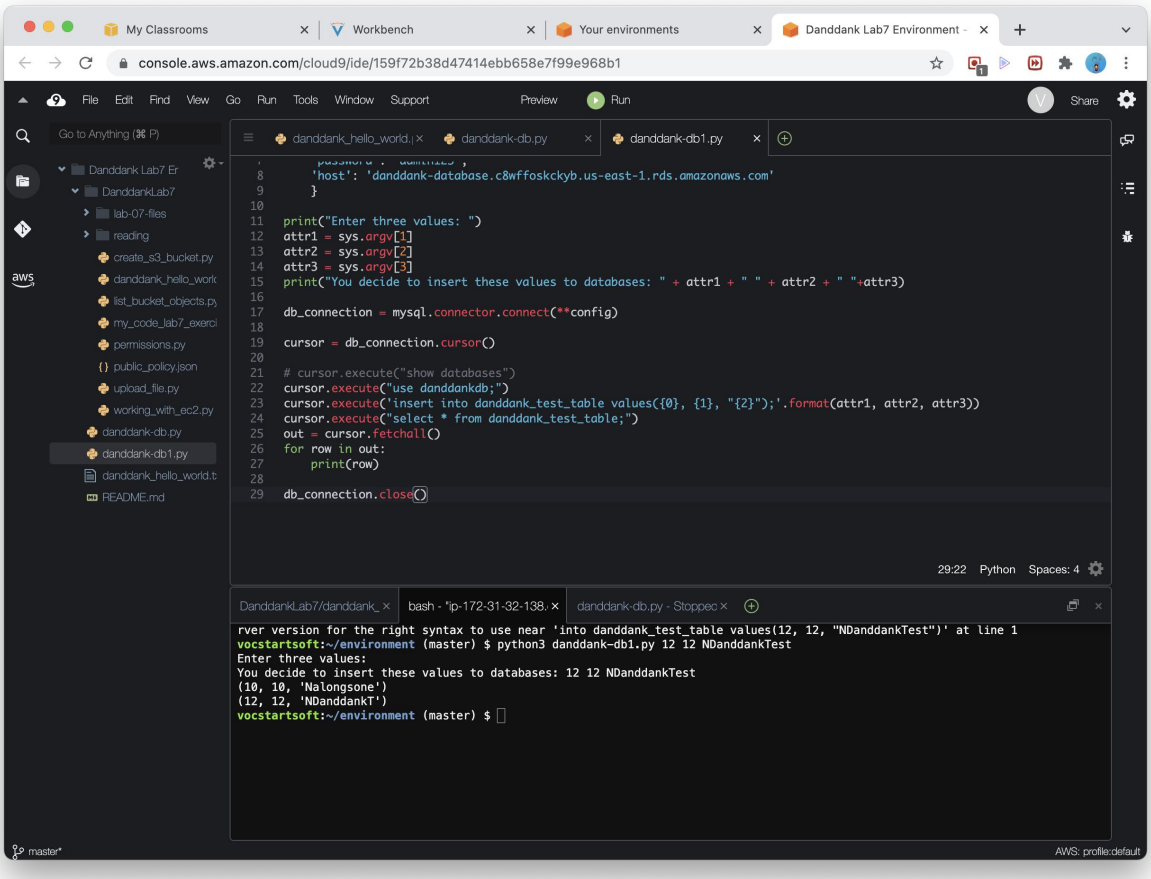
Lab report screen-shot #9:



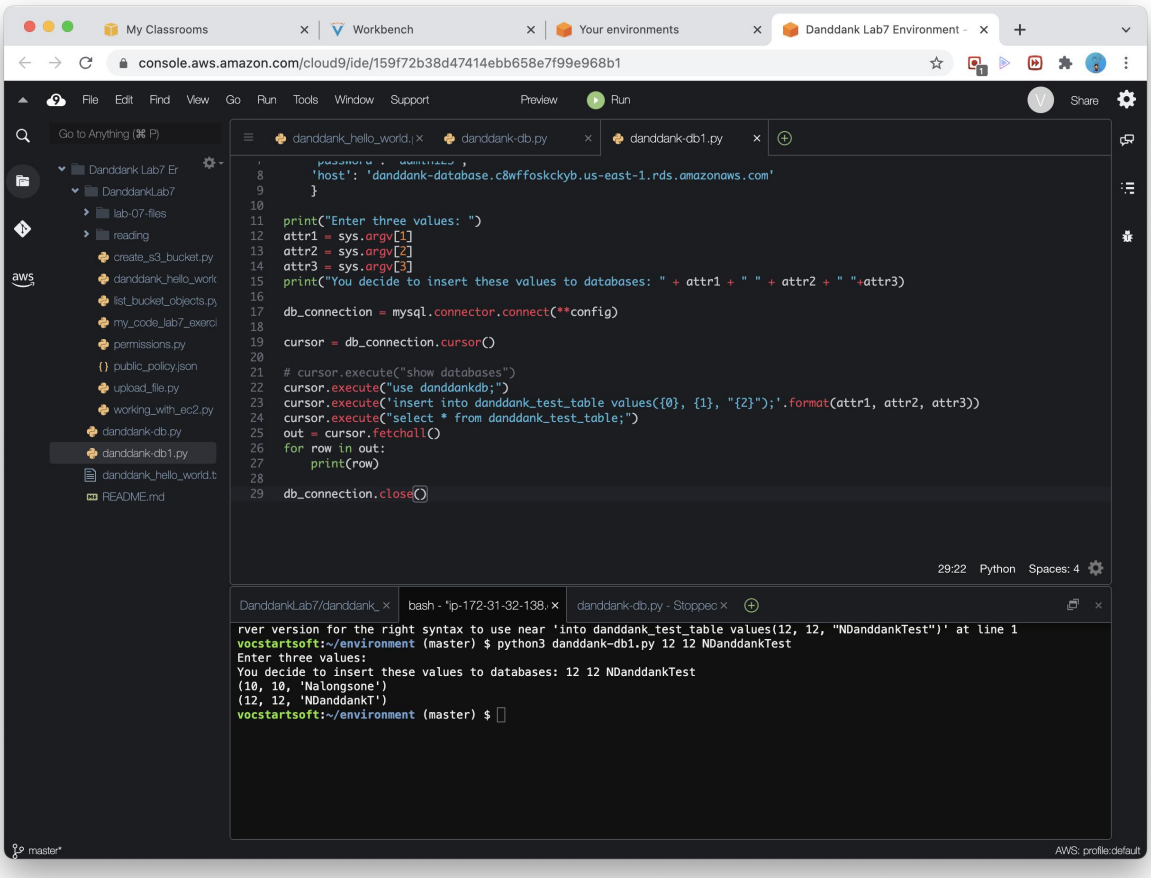
Lab report screen-shot #10:

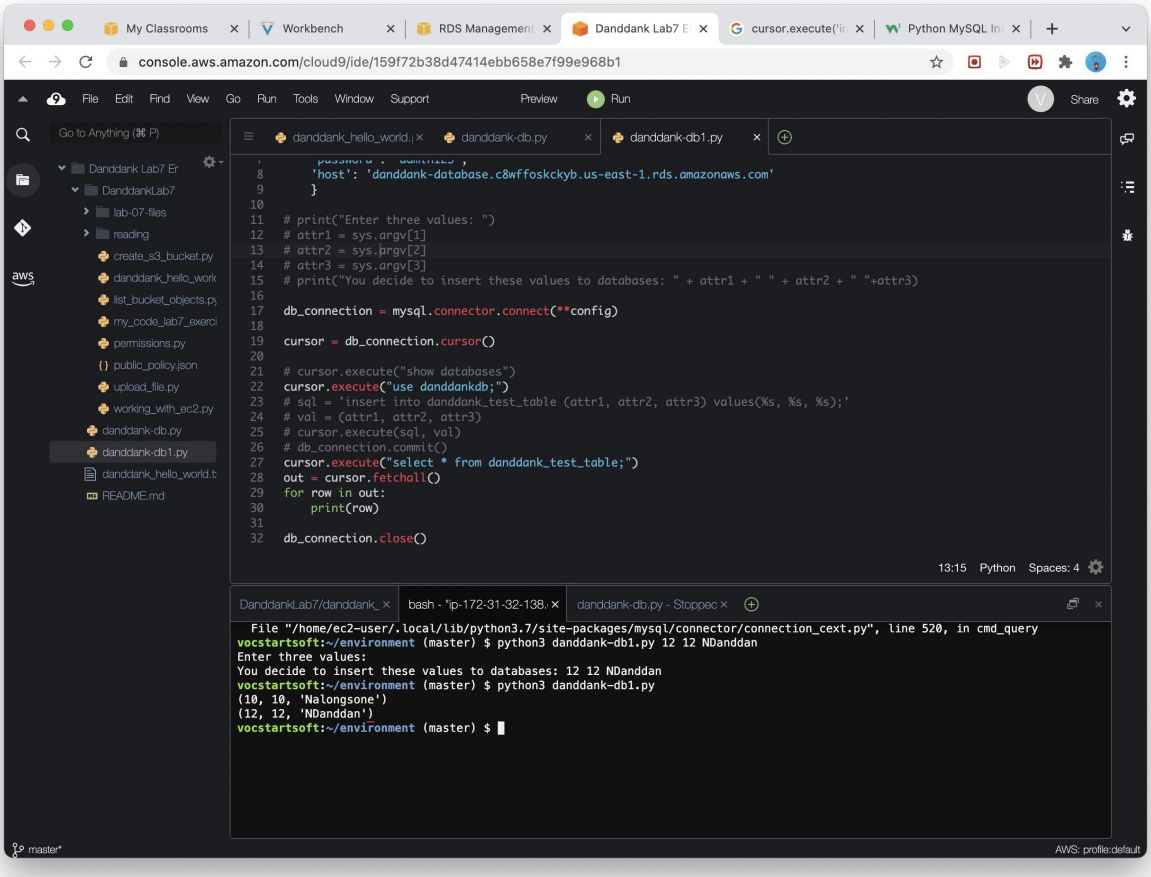


Lab report screen-shot #11:



Lab report screen-shot #12:

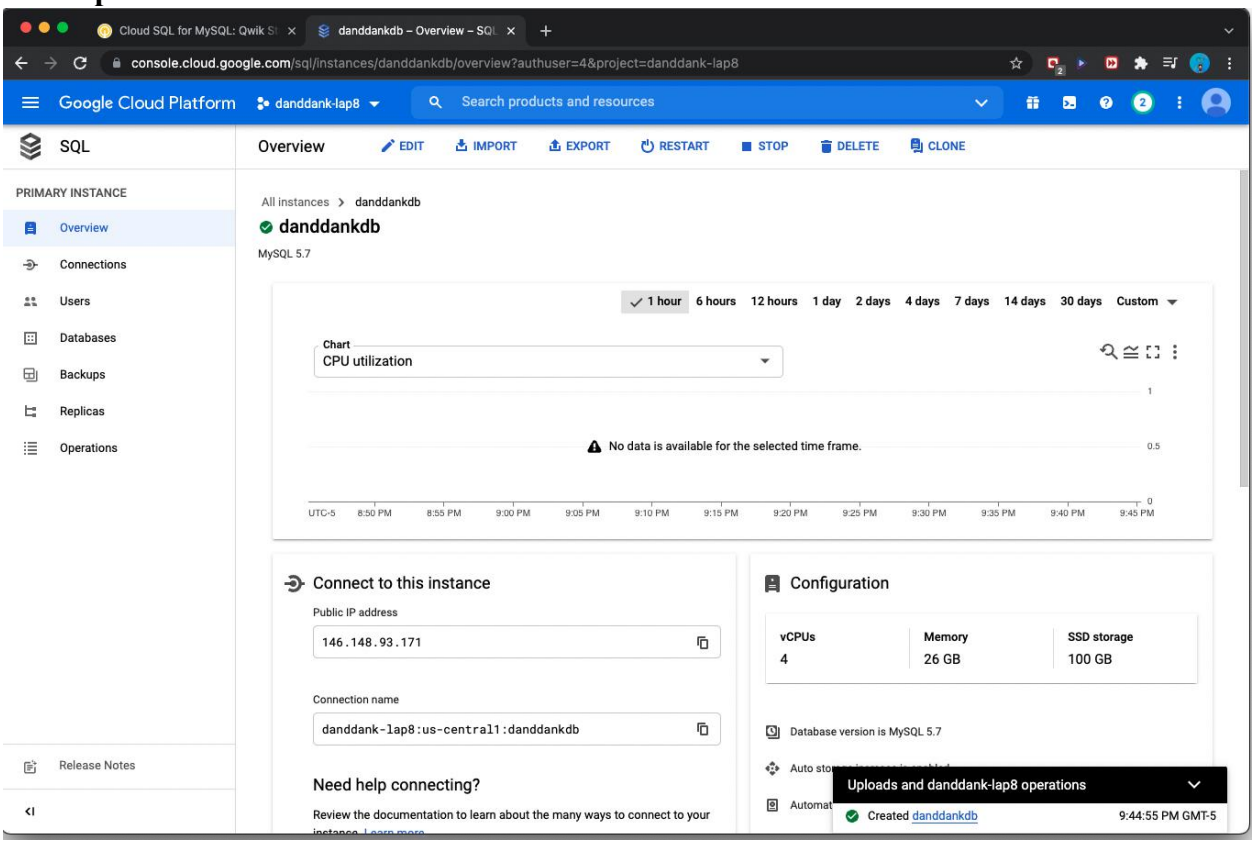




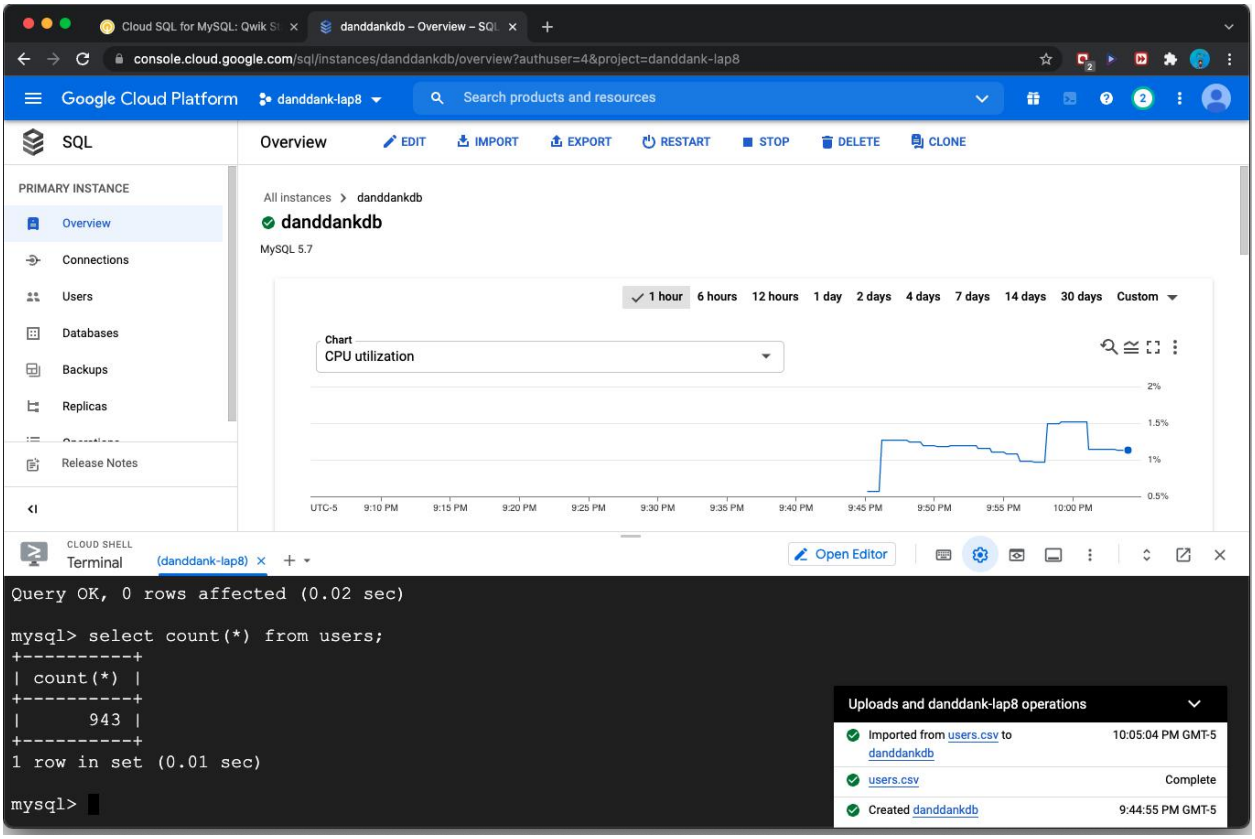
Lab report screen-shot #13:

Exercise 2: Relational Databases on GCP

Lab report screen-shot #14: 146.148.93.171

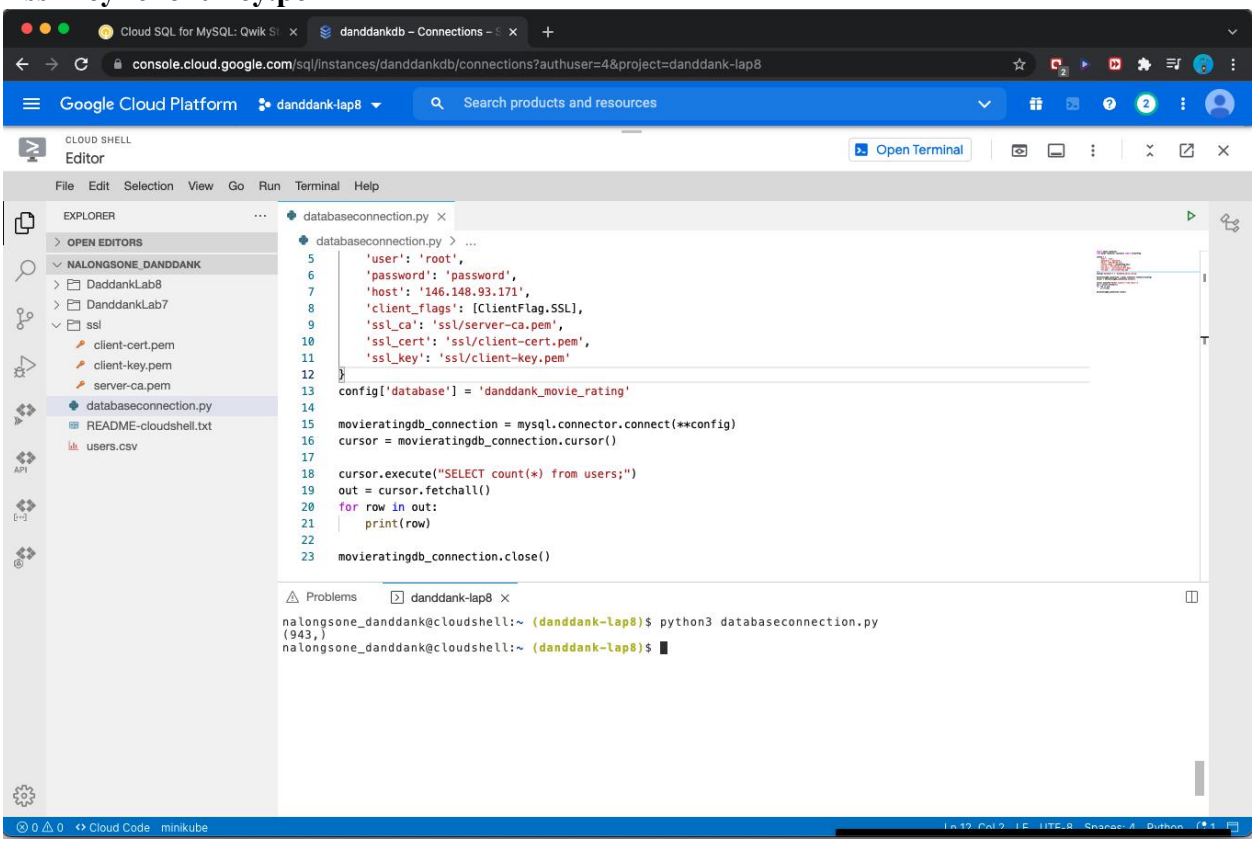


Lab report screen-shot #15:

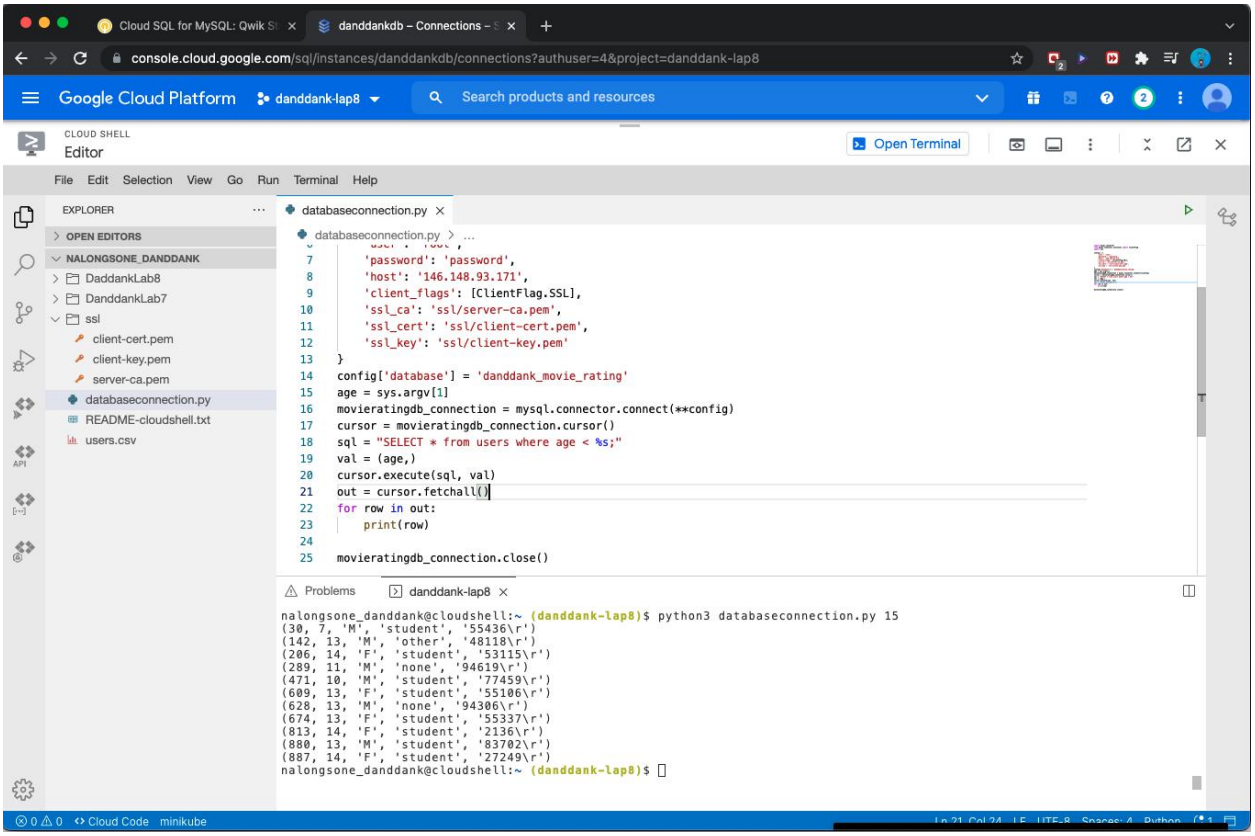


Lab report screen-shot #16:

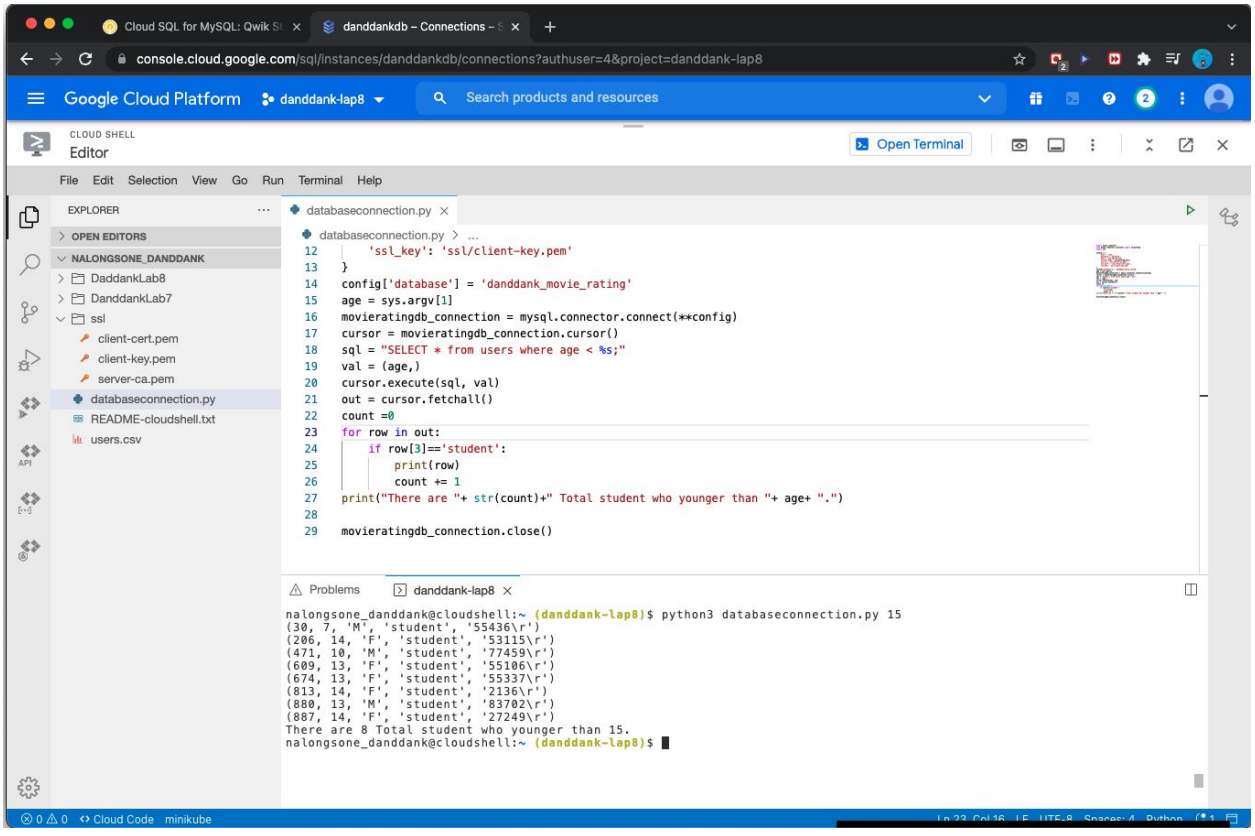
mysql -uroot -p -h 146.148.93.171 --ssl-ca=server-ca.pem --ssl-cert=client-cert.pem --ssl-key=client-key.pem



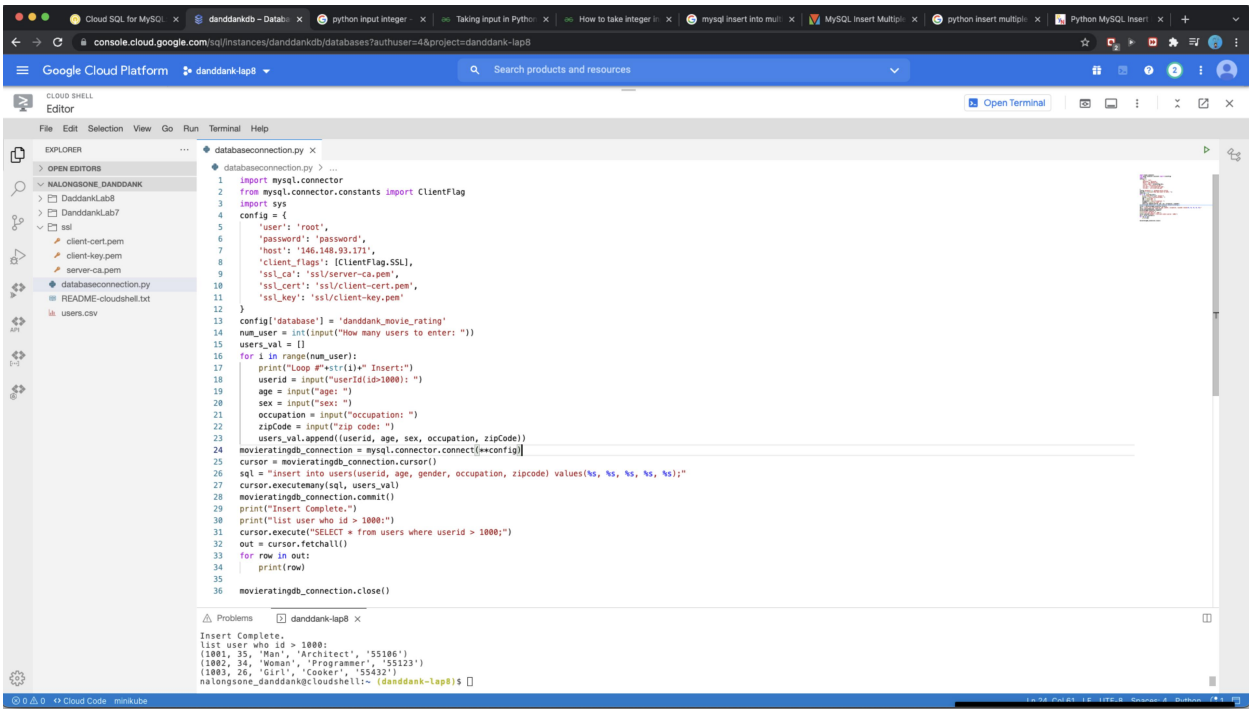
Lab report screen-shot #17:

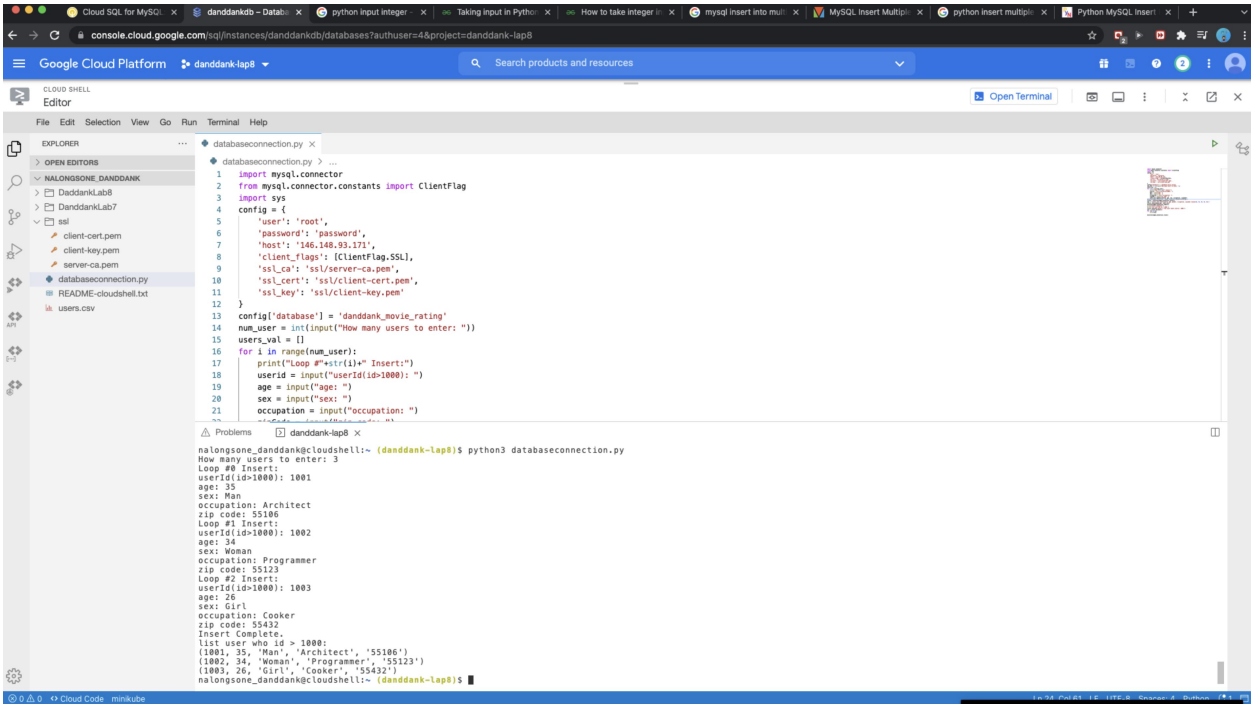


Lab report screen-shot #18:

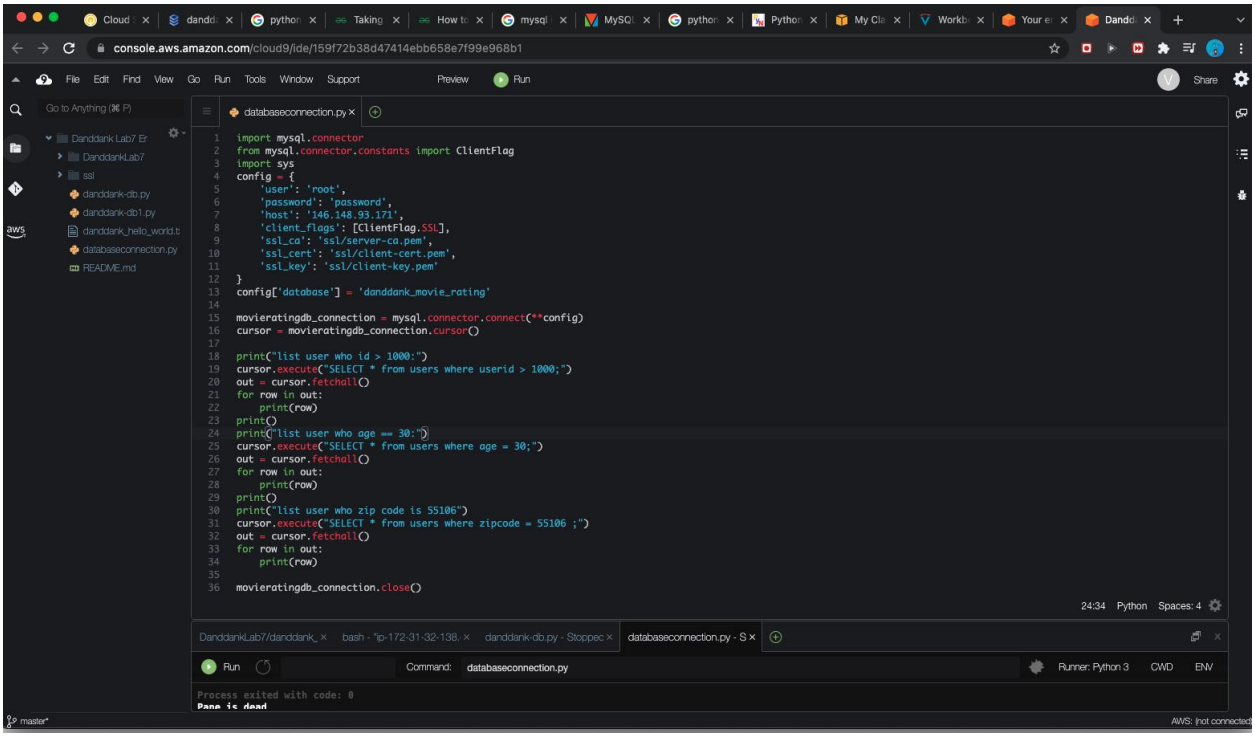


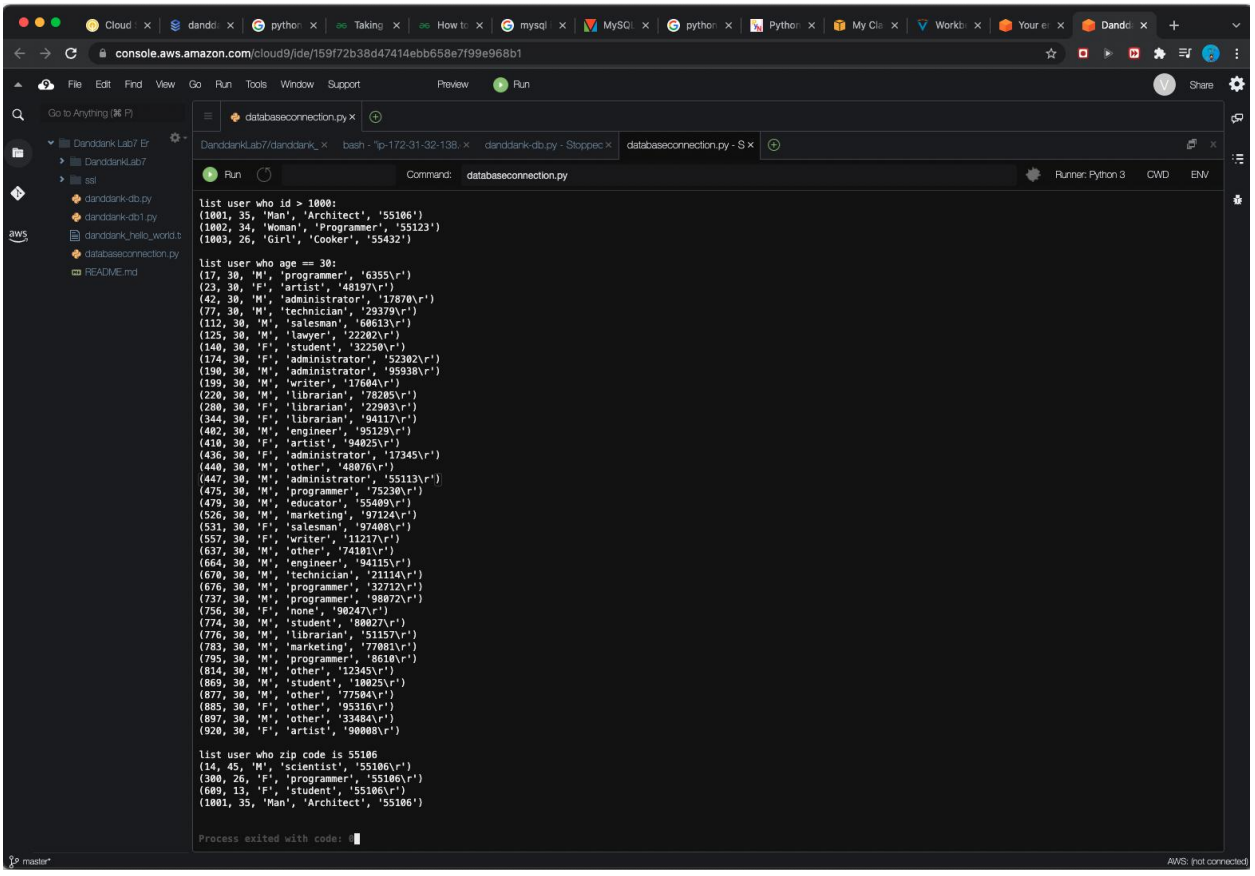
Lab report screen-shot #19:





Lab report screen-shot #20:


console.aws.amazon.com/cloud9/ide/159f72b38d47414ebb658e7f99e968b1
databaseconnection.py
import mysql.connector
from mysql.connector.constants import ClientFlag
import sys
config = {
'user': 'root',
'password': 'password',
'host': '146.148.93.171',
'client_flags': [ClientFlag.SSL],
'ssl_ca': 'ssl/server-ca.pem',
'ssl_cert': 'ssl/client-cert.pem',
'ssl_key': 'ssl/client-key.pem'
}
config['database'] = 'danddank_movie_rating'
movieratingdb_connection = mysql.connector.connect(**config)
cursor = movieratingdb_connection.cursor()
print("list user who id > 1000:")
cursor.execute("SELECT * from users where userid > 1000;")
out = cursor.fetchall()
for row in out:
print(row)
print()
print("list user who age == 30:")
cursor.execute("SELECT * from users where age = 30;")
out = cursor.fetchall()
for row in out:
print(row)
print()
print("list user who zip code is 55106")
cursor.execute("SELECT * from users where zipcode = 55106 ;")
out = cursor.fetchall()
for row in out:
print(row)
movieratingdb_connection.close()
Run
Command: databaseconnection.py
Process exited with code: 0
Pane is dead


console.aws.amazon.com/cloud9/ide/159f72b38d47414ebb658e7f99e968b1
Run
Command: databaseconnection.py
list user who id > 1000:
(1001, 35, 'Man', 'Architect', '55106')
(1002, 34, 'Woman', 'Programmer', '55123')
(1003, 26, 'Girl', 'Cooker', '55432')
list user who age == 30:
(17, 30, 'M', 'programmer', '6355\r')
(23, 30, 'F', 'artist', '48197\r')
(42, 30, 'M', 'administrator', '17870\r')
(77, 30, 'M', 'technician', '29379\r')
(112, 30, 'M', 'salesman', '60613\r')
(125, 30, 'M', 'lawyer', '22202\r')
(140, 30, 'F', 'student', '32250\r')
(174, 30, 'F', 'administrator', '52302\r')
(190, 30, 'M', 'administrator', '95938\r')
(199, 30, 'M', 'writer', '17604\r')
(220, 30, 'M', 'librarian', '78205\r')
(280, 30, 'F', 'librarian', '22903\r')
(344, 30, 'F', 'librarian', '94117\r')
(402, 30, 'M', 'engineer', '95129\r')
(410, 30, 'F', 'artist', '94025\r')
(436, 30, 'F', 'administrator', '17345\r')
(440, 30, 'M', 'other', '48076\r')
(447, 30, 'M', 'administrator', '55113\r')
(475, 30, 'M', 'programmer', '75230\r')
(479, 30, 'M', 'educator', '55409\r')
(526, 30, 'M', 'marketing', '97124\r')
(531, 30, 'F', 'salesman', '97408\r')
(557, 30, 'F', 'writer', '11217\r')
(637, 30, 'M', 'other', '74101\r')
(664, 30, 'M', 'engineer', '94115\r')
(670, 30, 'M', 'technician', '21114\r')
(676, 30, 'M', 'programmer', '32712\r')
(737, 30, 'M', 'programmer', '98072\r')
(756, 30, 'F', 'none', '90247\r')
(774, 30, 'M', 'student', '80027\r')
(776, 30, 'M', 'librarian', '51157\r')
(783, 30, 'M', 'marketing', '77081\r')
(795, 30, 'M', 'programmer', '8610\r')
(814, 30, 'M', 'other', '12345\r')
(869, 30, 'M', 'student', '10025\r')
(877, 30, 'M', 'other', '77504\r')
(885, 30, 'F', 'other', '95316\r')
(897, 30, 'M', 'other', '33484\r')
(920, 30, 'F', 'artist', '90008\r')
list user who zip code is 55106
(14, 45, 'M', 'scientist', '55106\r')
(300, 26, 'F', 'programmer', '55106\r')
(609, 13, 'F', 'student', '55106\r')
(1001, 35, 'Man', 'Architect', '55106')
Process exited with code: 0