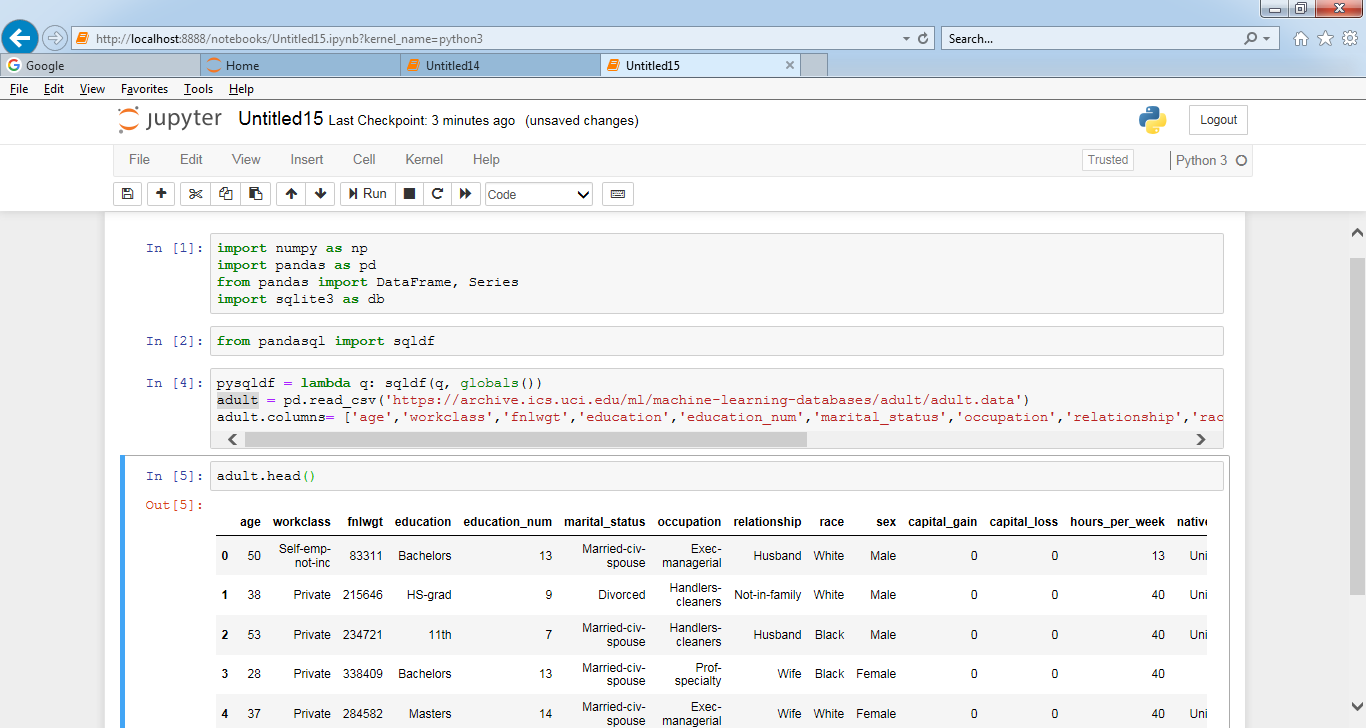
2.​ Problem Statement

Read the following data set:

<https://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.data>



Task:

1. Create an sqlalchemy engine using a sample from the data set

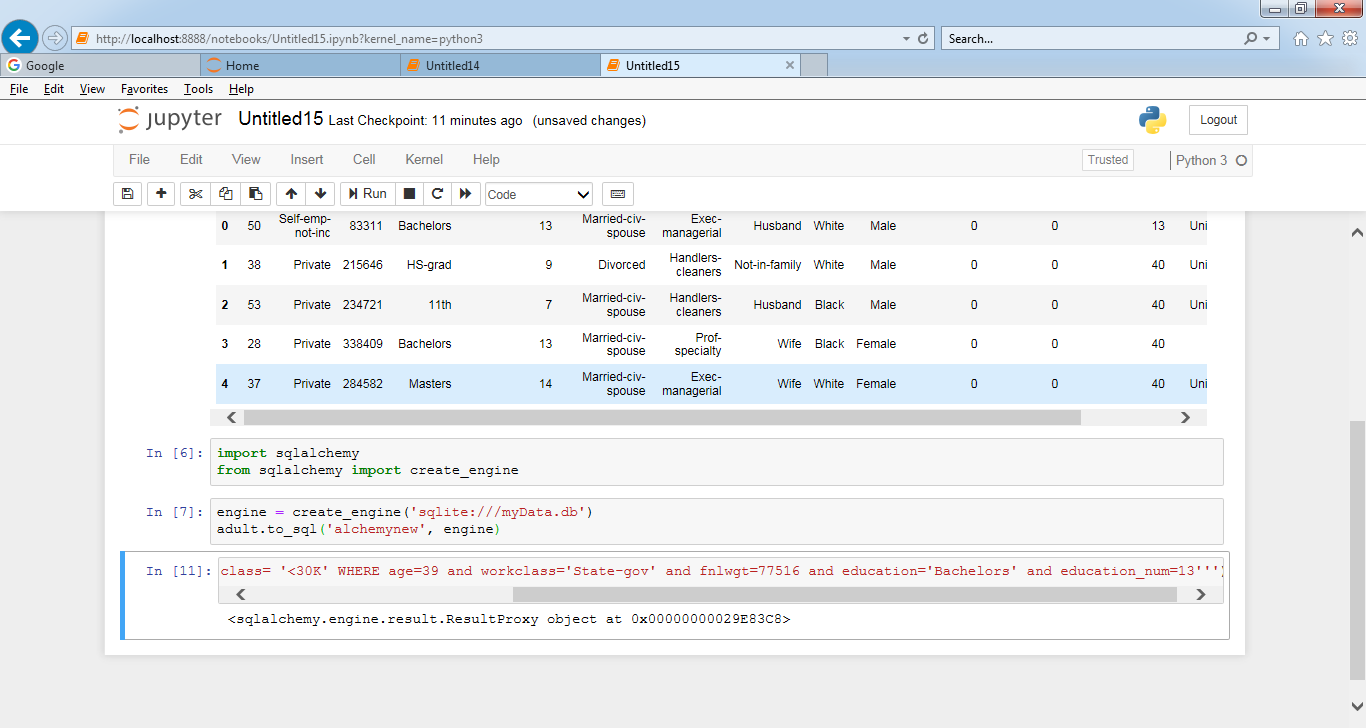
import sqlalchemy

from sqlalchemy import create\_engine

engine = create\_engine('sqlite:///myData.db')

adult.to\_sql('alchemynew', engine)

print(engine.execute('''UPDATE alchemynew SET class= '<30K' WHERE age=39 and workclass='State-gov' and fnlwgt=77516 and education='Bachelors' and education\_num=13'''))



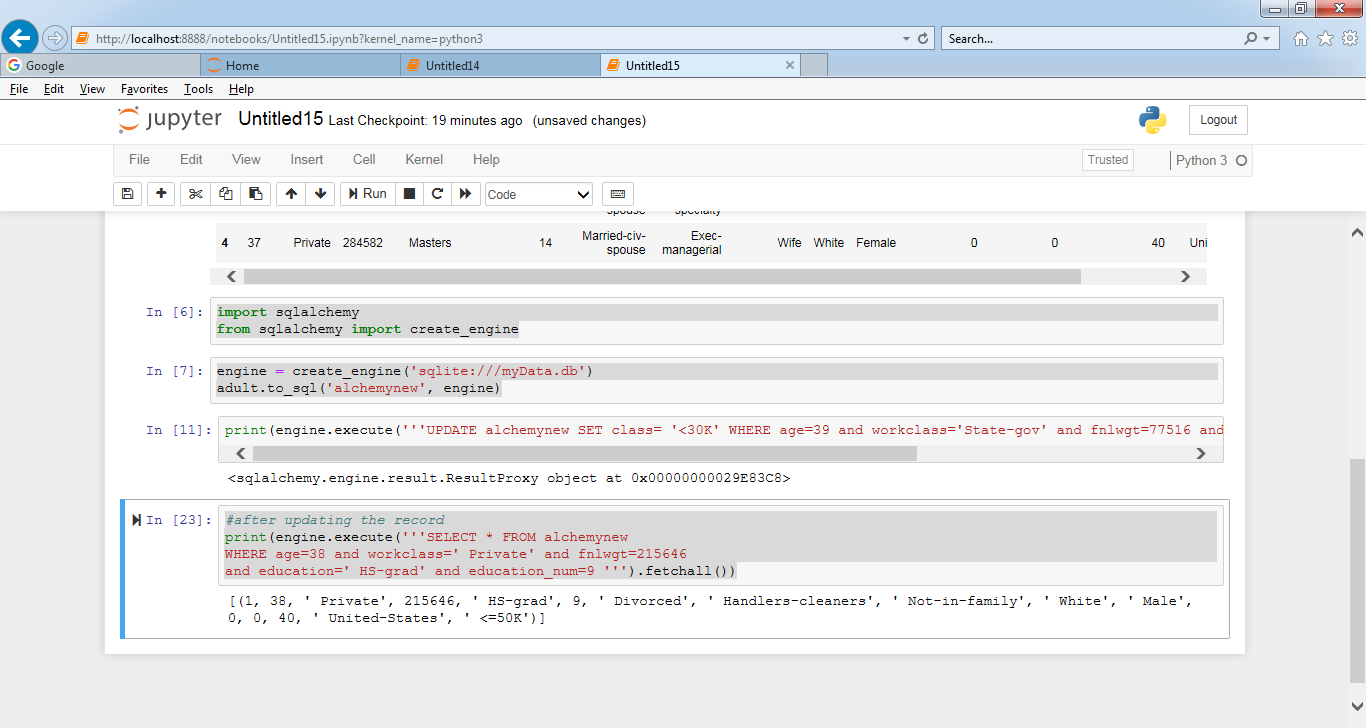
1. Write two basic update queries

#after updating the record

print(engine.execute('''SELECT \* FROM alchemynew

WHERE age=38 and workclass=' Private' and fnlwgt=215646

and education=' HS-grad' and education\_num=9 ''').fetchall())



print(engine.execute('''UPDATE alchemynew SET class = '<30K'

WHERE age=38 and workclass=' Private' and fnlwgt=215646

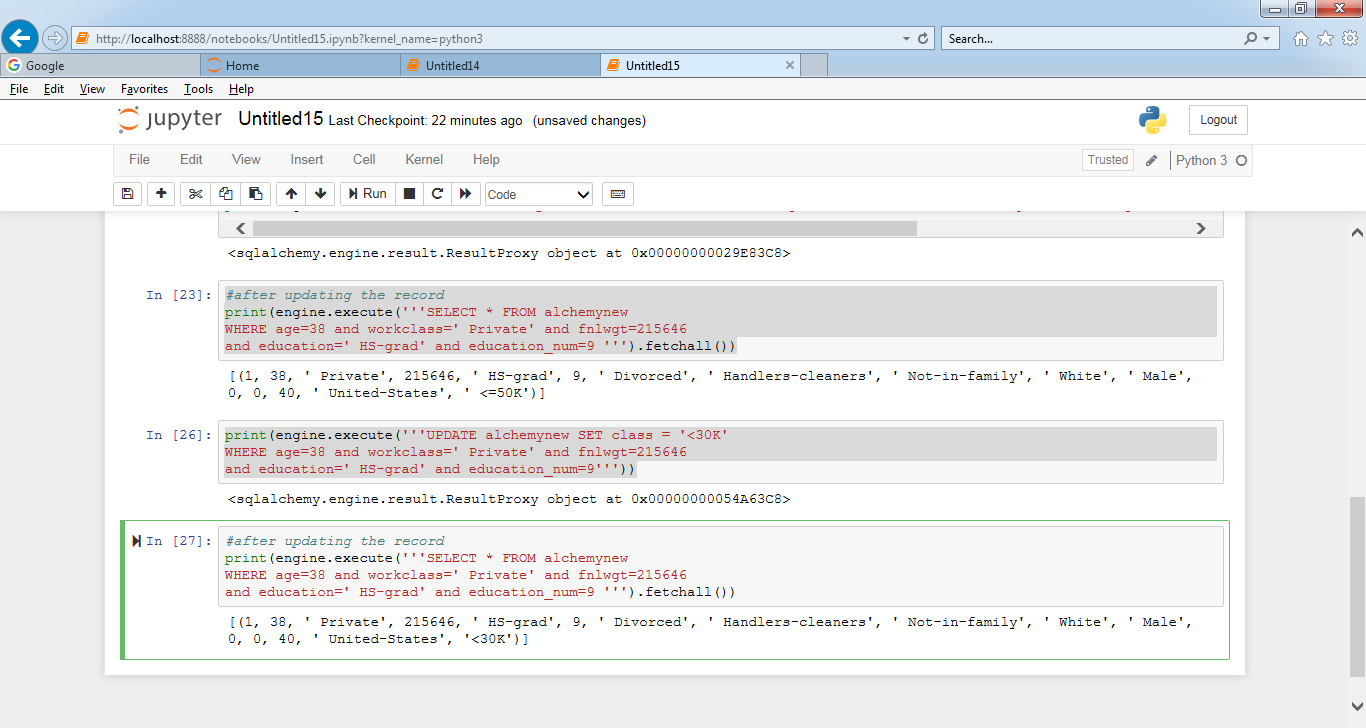
and education=' HS-grad' and education\_num=9'''))

#after updating the record

print(engine.execute('''SELECT \* FROM alchemynew

WHERE age=38 and workclass=' Private' and fnlwgt=215646

and education=' HS-grad' and education\_num=9 ''').fetchall())



1. Write two delete queries

#deleting the record

print(engine.execute('''DELETE FROM alchemynew

WHERE age=38 and workclass=' Private' and fnlwgt=215646

and education=' HS-grad' and education\_num=9'''))

#after deleting the record

print(engine.execute('''SELECT \* FROM alchemynew

WHERE age=38 and workclass=' Private' and fnlwgt=215646

and education=' HS-grad' and education\_num=9 ''').fetchall())

#deleting the record 2

print(engine.execute('''DELETE FROM alchemynew

WHERE age=37 and workclass=' Private' and fnlwgt=284582

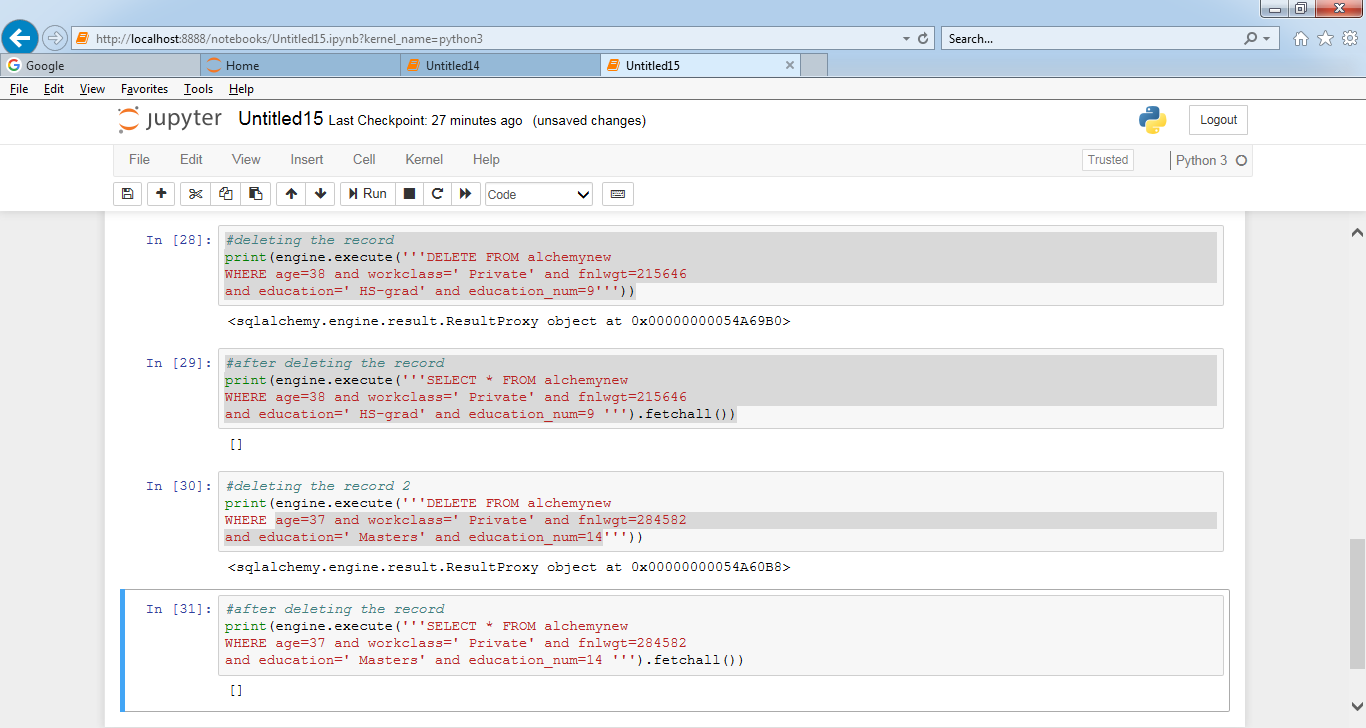
and education=' Masters' and education\_num=14'''))

#after deleting the record

print(engine.execute('''SELECT \* FROM alchemynew

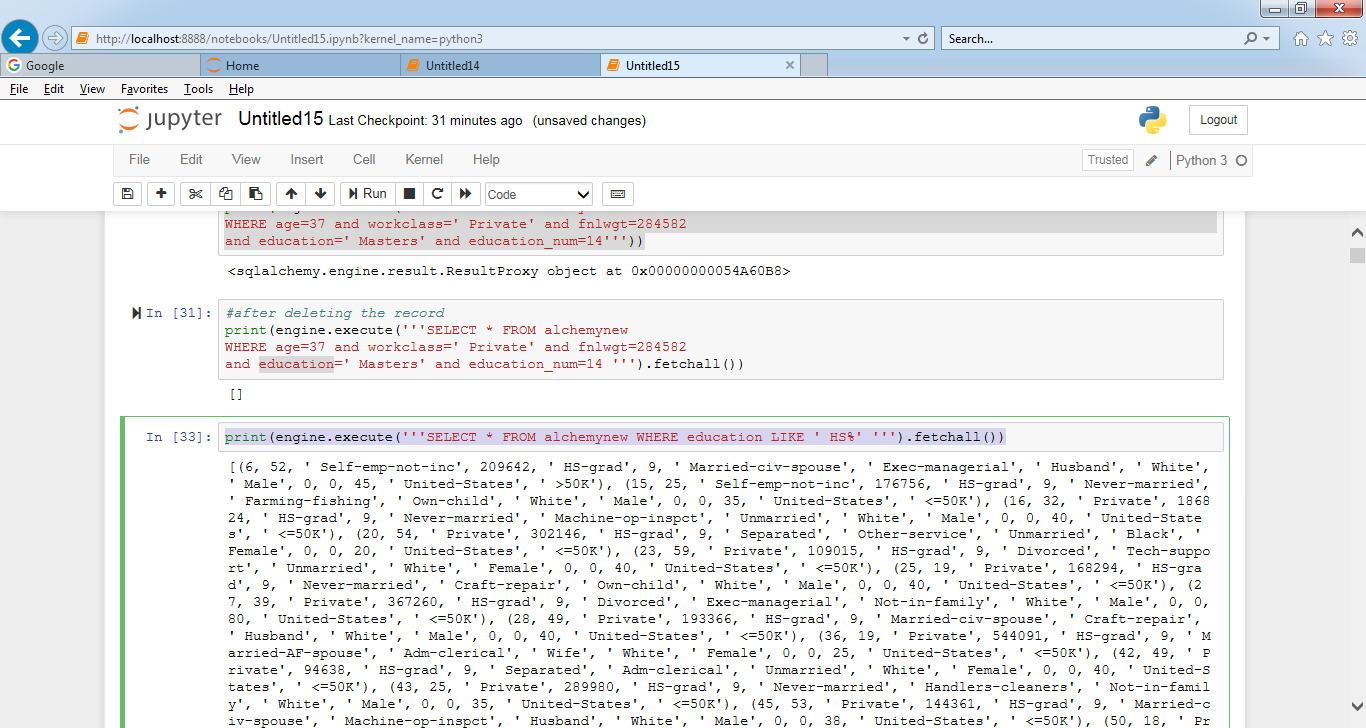
WHERE age=37 and workclass=' Private' and fnlwgt=284582

and education=' Masters' and education\_num=14 ''').fetchall())



1. Write two filter queries

print(engine.execute('''SELECT \* FROM alchemynew WHERE education LIKE ' HS%' ''').fetchall())



1. Write two function queries

