Yingna Lu

1.

```
pymysql.cursors
 port pandas as pd
om sqlalchemy import create_engine, types
connection=pymysql.connect(host='127.0.0.1',
               password='Ice
               user=
               db = 
               cursorclass=pymysql.cursors.DictCursor)
sql="
data.to_sql('example',con=engine,index=False,if_exists='append',chunksize=100) # Replace Table_name with your sql tab
inna030030@instance-1:~$ vi problem1.py
inna030030@instance-1:~$ python3 problem1.py
inna030030@instance-1:~$ mysql -u root -p --host 127.0.0.1
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 105456
Server version: 5.7.25-google-log (Google)
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> use hw2;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
MySQL [hw2]> show tables;
 Tables_in_hw2 |
 example
 work
 rows in set (0.001 sec)
MySQL [hw2]> select * from example;
```

```
### Annual Control of Control of
```

2.

```
requests
    io import StringIO
rt pymysql.cursors
rt pandas
                                                                                                                         ----- to
       pandas as pd
    sqlalchemy import create_engine,types
db= nw2',
cursorclass=pymysql.cursors.DictCursor)
engine=create_engine('
s=requests.get(r).text
col=['job__','doc__','borough','house__','street_name
data=pd.read_csv(StringIO(s),usecols=col,nrows=100)
data.to_sql('problem2',con=engine,index=False,if_exists='append',chunksize=100)
```

```
ySQL [hw2]> select * from problem2 limit 5;
                 | doc__ | borough
                                                                     | WEST 57 STREET | A2
| EAST 52 STREET | A2
| WARDS ISLAND | A1
| WARDS ISLAND | A1
| WARDS ISLAND | A1
| 110083524 | 2 | MANHATTAN | 152
| 110083533 | 1 | MANHATTAN | 444
| 110083542 | 1 | MANHATTAN | 2
| 110083542 | 2 | MANHATTAN | 2
| 110083542 | 3 | MANHATTAN | 2
                                                                                                                                                                                                            2009-04-08
                                                                                                                                                  SIGNED OFF
                                                                                                                                                  rows in set (0.003 sec)
```

3.

```
: ta
  "https://data.outpoins.
requests.get(r).text
ol=[ job _ , doc _ , borough','house_','street_name','job_type','job_status','job_status_descrp','landmarked
I occupancy','owner_type','job_description','initial_cost']
col=t jub __'iome_type', job description','initial cost']
df=pd.read_csv(StringIO(s),usecols=col)
df[!nitial_cost']=df(initial_cost').str.replace('3','')
df[!nitial_cost']=pd.to_numeric(df(!nitial_cost'))
df[!nitial_cost']=(df.initial_cost//30:).apply(!ambda x:'S(:,.2f)'.format(x))
df[!nitial_cost']=(df.initial_cost//30:).apply(!ambda x:'S(:,.2f)'.format(x))
 Database changed
MySQL [hw2]> select * from problem3 limit 5;
  job_ | doc_ | borough | house_ | street_name | job_type | job_status | job_status_descrp
cost | existing_occupancy | proposed_occupancy | owner_type | job_description
    110083524 |
| NULL
                             2 | MANHATTAN | 152
| NULL
   y.
110083533 | 1 | MANHATTAN | 444
| RES | NULL
with. No change in use, egress or occ
110083542 | 1 | MANHATTAN | 2
| J-1 | J-1
                                                                        | | | EAST | 52 STREET | A2 | X | SIGNED OFF | 2009-06-04 | N | N | $100 | | CORPORATION | Apartment renovation work to include partition, ceiling, door and plumbing work as indicated on plans filed by
                                                                       ncy. |
| WARDS ISLAND
| OTHER
                                                                                                     | Al | J | PLAN EXAM - DISAPPROVED | 2008-02-14 | N | Herewith filing alteration type 1 to change use.
                                                                                                          | A1 | J | PLAN EXAM - DISAPPROVED | 2008-02-14 | N | Filing herewith Plumbing and Mechanical work in conjunction with ALT 1
    110083542 |
| NULL
                           2 | MANHATTAN | 2
| NULL
                                                                        | WARDS ISLAND | A1 | D | APPLICATION PROCESSED - ENTIRE | 2008-02-15 | CORPORATION | FILING HEREWITH, STRUCTURAL WORK
```