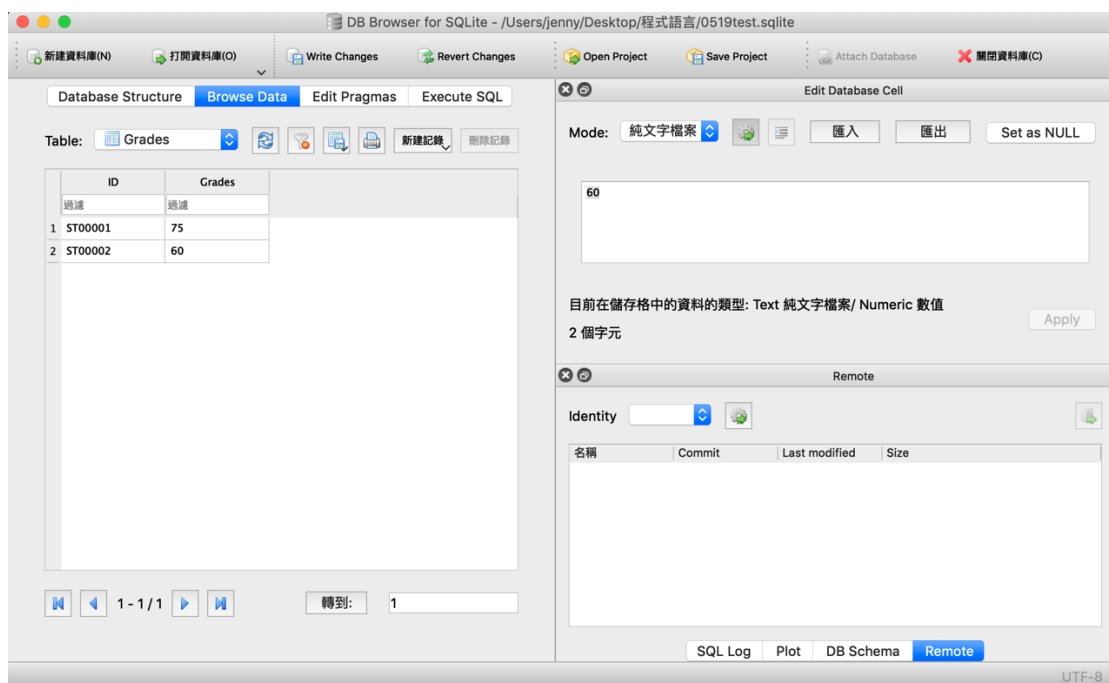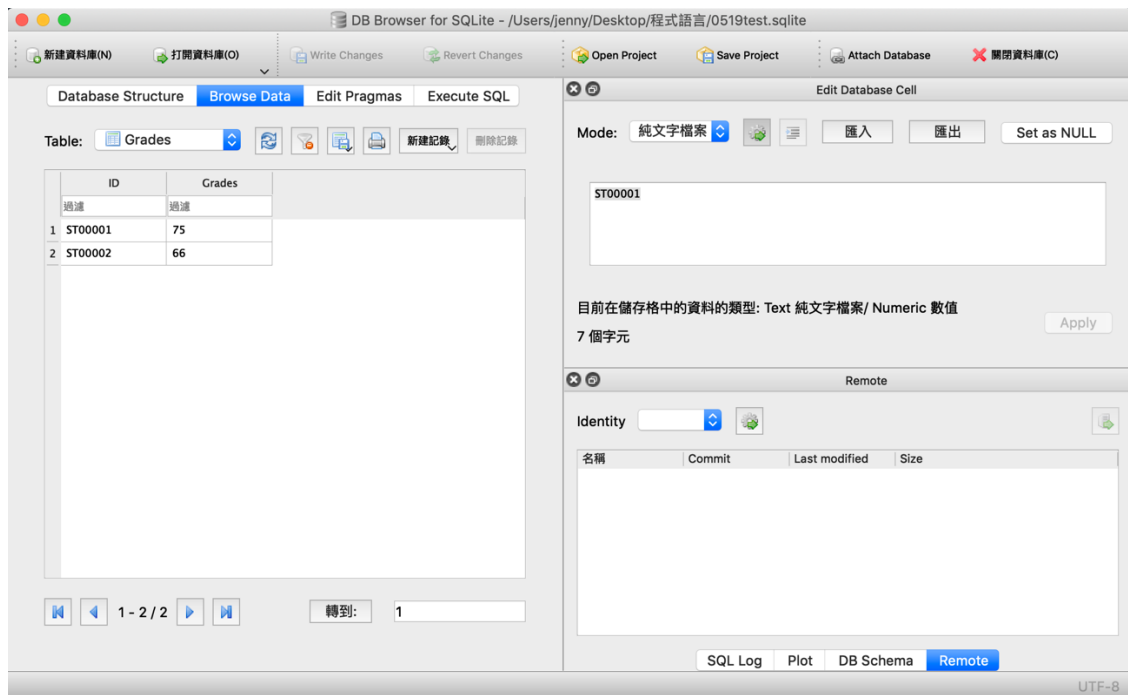Task1.

A.新增

```
#Task1
#新增
import sqlite3
conn = sqlite3.connect('0519test.sqlite')
score = input('Enter your scores:')
sqlstr="insert into Grades values('ST00002', '%d' %(score))"
conn.execute(sqlstr)

conn.commit()
conn.close()
```
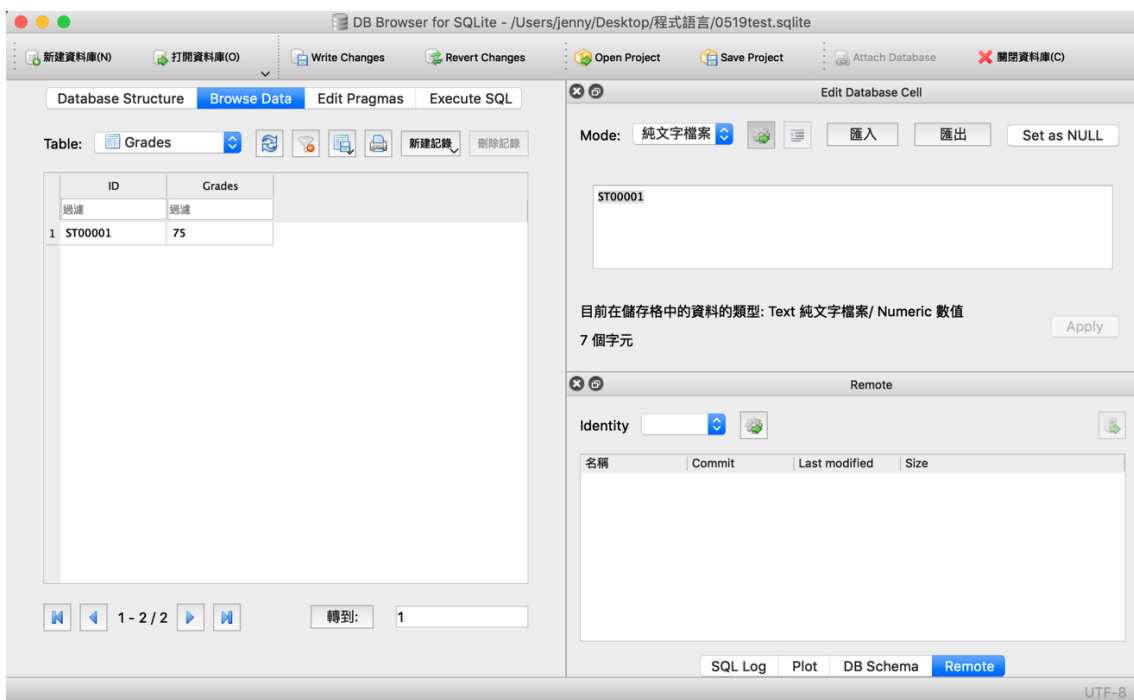


B.修改

```
12  #修改
13  import sqlite3
14  conn = sqlite3.connect('0519test.sqlite')
15  updateid = input('Enter ID:')
16  updatescore = input('Enter new scores:')
17  sqlstr="update Grades set Grades = '%d' %(updatescore) where id = '%s' %(updateid) "
18  conn.execute(sqlstr)
19
20  conn.commit()
21  conn.close()
```

C.刪除

```
#刪除
import sqlite3
conn = sqlite3.connect('0519test.sqlite')
sqlstr="delete from Grades where id = 'ST00002' "
conn.execute(sqlstr)
```

Task2.

A.

```
In [10]: #Task2 A
         import pandas as pd #載入pandas套件並命名為pd
         csvdata = pd.read_csv('COVID19_line_list_data.csv') #以read_csv函式讀取csv
         print(csvdata[(csvdata['location'] == 'Tianjin') & (csvdata['age'] > 35)])
```

```
        id  statistic reporting date  \
3        4        519      1/21/2020
4        5        519      1/21/2020
80      81        519      1/23/2020
95      96        519      1/24/2020
117    118        519      1/21/2020
118    119        519      1/21/2020
119    120        519      1/22/2020
120    121        519      1/22/2020
121    122        519      1/23/2020
122    123        519      1/24/2020
125    126        519      1/25/2020
150    151        519      1/25/2020
151    152        519      1/25/2020
163    164        519      1/26/2020
173    174        519      1/26/2020
174    175        519      1/26/2020
175    176        519      1/26/2020

                                               summary location country  \
3      new confirmed imported COVID-19 pneumonia in T...  Tianjin   China
4      new confirmed imported COVID-19 pneumonia in T...  Tianjin   China
80     new confirmed COVID-19 pneumonia in Tianjin, m...  Tianjin   China
95     new confirmed imported COVID-19 pneumonia pati...  Tianjin   China
117    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
118    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
119    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
120    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
121    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
122    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
125    confirmed imported COVID-19 pneumonia patient ...  Tianjin   China
150    confirmed COVID-19 pneumonia patient No.11 in ...  Tianjin   China
151    confirmed COVID-19 pneumonia patient No.12 in ...  Tianjin   China
163    confirmed COVID-19 pneumonia patient No.14 in ...  Tianjin   China
173    new confirmed COVID-19 pneumonia patient No.15...  Tianjin   China
174    new confirmed COVID-19 pneumonia patient No.16...  Tianjin   China
175    new confirmed COVID-19 pneumonia patient No.17...  Tianjin   China

        gender   age symptom_onset  If_onset_approximated  ... exposure_start  \
3      female  60.0           NaN                    NaN  ...            NaN
4        male  58.0           NaN                    NaN  ...            NaN
80       male  46.0           NaN                    NaN  ...            NaN
95       male  39.0           NaN                    NaN  ...            NaN
117    female  59.0     1/14/2020                    0.0  ...            NaN
118      male  57.0     1/18/2020                    0.0  ...            NaN
119    female  68.0     1/14/2020                    0.0  ...            NaN
120      male  40.0     1/14/2020                    0.0  ...            NaN
121      male  46.0     1/15/2020                    0.0  ...            NaN
```
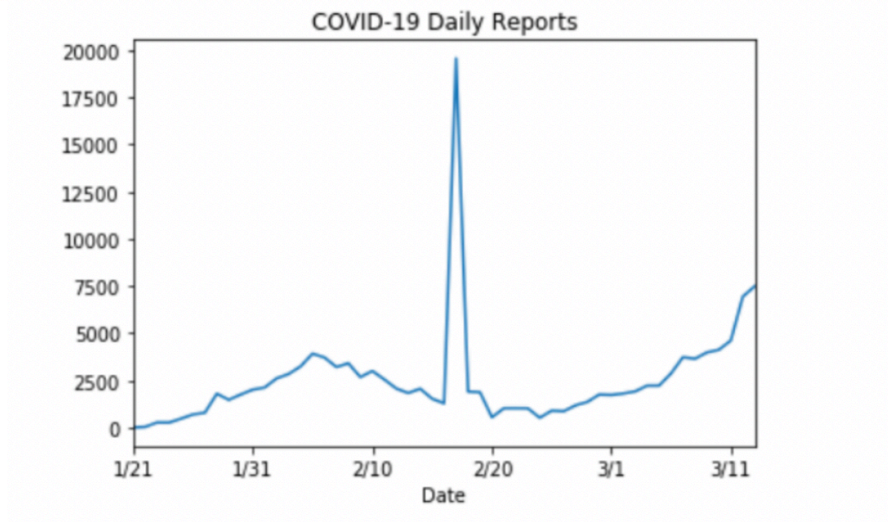
B.

```
In [15]: #Task2 B
         import pandas as pd #載入pandas套件並命名為pd
         csvdata = pd.read_csv('COVID19_line_list_data.csv') #以read_csv函式讀取csv
         print(csvdata[csvdata['statistic'] == 519].groupby(by = 'country')['age'].mean())
```

```
country
Afghanistan    35.000000
Algeria              NaN
Australia      42.000000
Austria        24.000000
Bahrain              NaN
Belgium              NaN
Cambodia       60.000000
Canada         42.583333
China          49.000000
Croatia              NaN
Egypt                NaN
Finland        32.000000
France         46.611111
Germany        40.214286
Hong Kong      56.075269
India                NaN
Iran                 NaN
Israel               NaN
Italy          35.000000
Japan          55.462366
Kuwait               NaN
Lebanon        45.000000
Malaysia       41.304348
Nepal          32.000000
Phillipines    47.333333
Russia               NaN
Singapore      43.516667
South Korea    47.641304
Spain          43.809524
Sri Lanka      40.000000
Sweden         25.000000
Switzerland    70.000000
Taiwan         51.935484
Thailand       48.166667
UAE            44.666667
UK             53.000000
USA            50.000000
Vietnam        36.525000
Name: age, dtype: float64
```

Task3.

```
In [40]: import matplotlib.pyplot as plt
         import seaborn as sns
         import pandas as pd
         tdata = pd.read_csv('cases_add_Taiwan.csv', encoding = 'big5')
         Spots = tdata.isin['Date', 'Worldwide'].plot(kind = 'line', x = 'Date', y = 'Worldwide Case', title = 'COVID-1
         plt.show()
```



Task4.

```
In [49]: import matplotlib.pyplot as plt
         import seaborn as sns
         import pandas as pd
         tdata = pd.read_csv('cases_add_Taiwan.csv', encoding = 'big5')
         Spots_pivot.plot(title = 'COVID-19 Daily Reports', legend = False)
         plt.show()
```

https://github.com/st95254/0519test