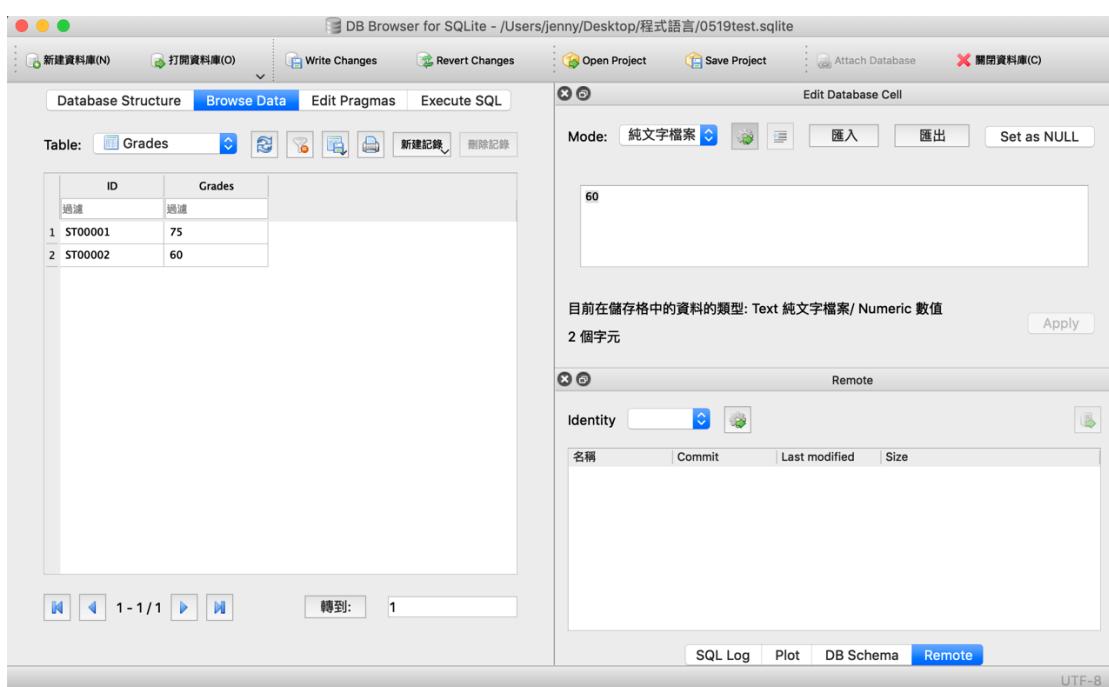


Task1.

A.新增

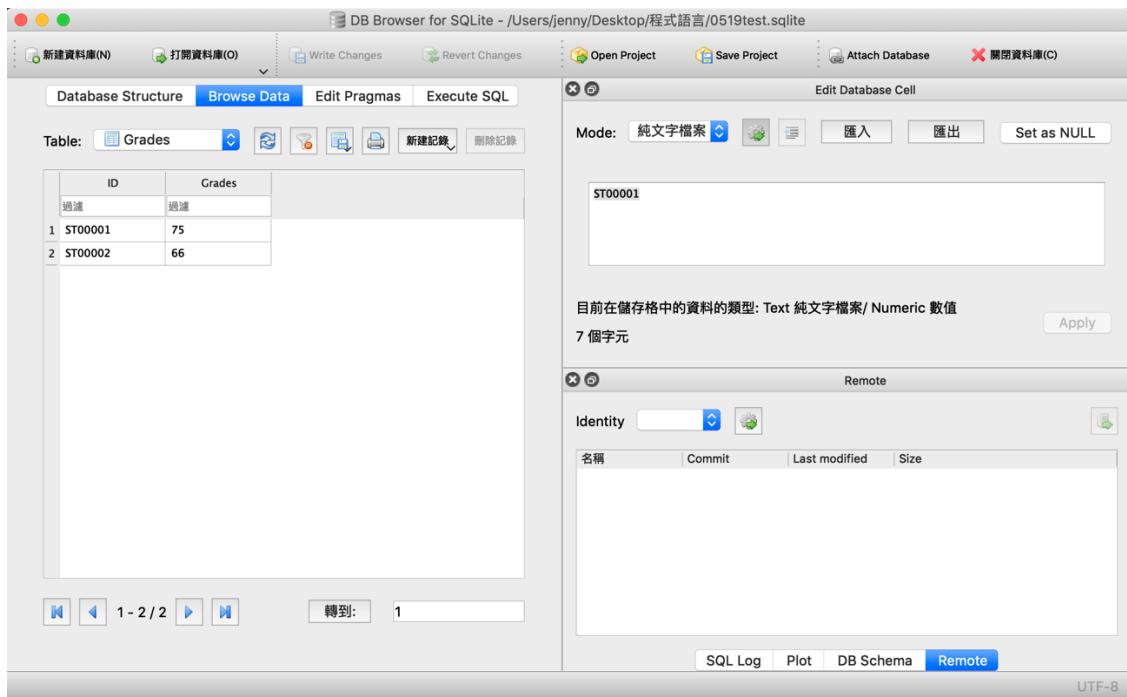
```
#Task1
#新增
import sqlite3
conn = sqlite3.connect('0519test.sqlite')
score = input('Enter your scores:')
sqlstr="insert into Grades values('ST00002', '%d' %(score))"
conn.execute(sqlstr)

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()
```



DB Browser for SQLite - /Users/jenny/Desktop/程式語言/0519test.sqlite

Database Structure Browse Data Edit Pragmas Execute SQL

Table: Grades

ID Grades

1 ST00001 75

2 ST00002 66

Mode: 純文字檔案

ST00001

目前在儲存格中的資料的類型: Text 純文字檔案/ Numeric 數值

7 個字元

Identity

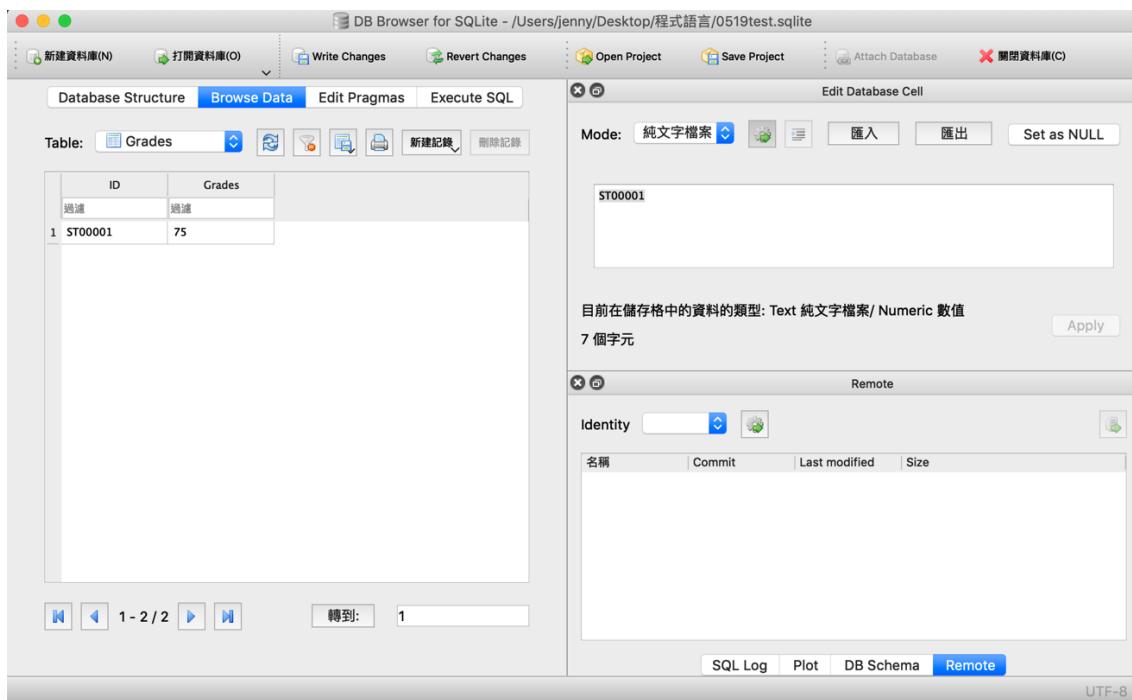
名稱 Commit Last modified Size

SQL Log Plot DB Schema Remote

UTF-8

C.刪除

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



DB Browser for SQLite - /Users/jenny/Desktop/程式語言/0519test.sqlite

Database Structure Browse Data Edit Pragmas Execute SQL

Table: Grades

ID Grades

1 ST00001 75

Mode: 純文字檔案

ST00001

目前在儲存格中的資料的類型: Text 純文字檔案/ Numeric 數值

7 個字元

Identity

名稱 Commit Last modified Size

SQL Log Plot DB Schema Remote

UTF-8

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	summary	location	country
3	4	519	1/21/2020	new confirmed imported COVID-19 pneumonia in T...	Tianjin	China
4	5	519	1/21/2020	new confirmed imported COVID-19 pneumonia in T...	Tianjin	China
80	81	519	1/23/2020	new confirmed COVID-19 pneumonia in Tianjin, m...	Tianjin	China
95	96	519	1/24/2020	new confirmed imported COVID-19 pneumonia pati...	Tianjin	China
117	118	519	1/21/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
118	119	519	1/21/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
119	120	519	1/22/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
120	121	519	1/22/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
121	122	519	1/23/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
122	123	519	1/24/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
125	126	519	1/25/2020	confirmed imported COVID-19 pneumonia patient ...	Tianjin	China
150	151	519	1/25/2020	new confirmed COVID-19 pneumonia patient No.11 in ...	Tianjin	China
151	152	519	1/25/2020	confirmed COVID-19 pneumonia patient No.12 in ...	Tianjin	China
163	164	519	1/26/2020	confirmed COVID-19 pneumonia patient No.14 in ...	Tianjin	China
173	174	519	1/26/2020	new confirmed COVID-19 pneumonia patient No.15...	Tianjin	China
174	175	519	1/26/2020	new confirmed COVID-19 pneumonia patient No.16...	Tianjin	China
175	176	519	1/26/2020	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

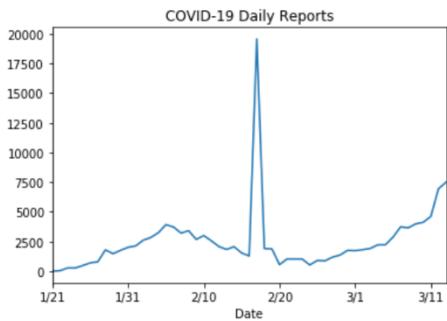
B.

```
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	age
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

Task3.

```
In [4]: import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
tdata = pd.read_csv('cases_add_Taiwan.csv', encoding = 'big5')
tdata[['Date', 'Worldwide']].plot(kind = 'line', x = 'Date', y = 'Worldwide', title = 'COVID-19 Daily Reports',
plt.show()
```



Task4.

```
In [5]: import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
tdata = pd.read_csv('cases_add_Taiwan.csv', encoding = 'big5')
listx1 = tdata['Date']
listy1 = tdata['Taiwan']
plt.plot(listx1, listy1, label = 'Taiwan', color='blue')
listx2 = tdata['Date']
listy2 = tdata['China']
plt.plot(listx2, listy2, label='China', color='red')
listx3 = tdata['Date']
listy3 = tdata['France']
plt.plot(listx3, listy3, label='France', color='green')
plt.legend()
plt.title('Covid-19 Situation Reports')
plt.xlabel('Date')
plt.ylabel('Cases')
plt.show()
```

