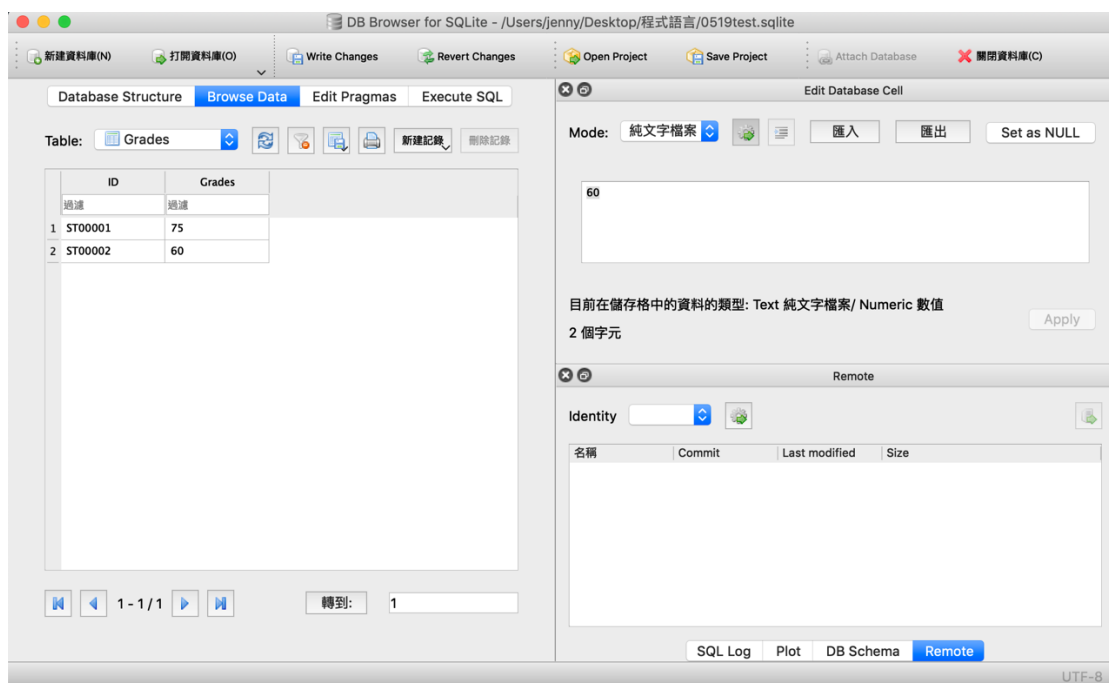


Task1.

A.新增

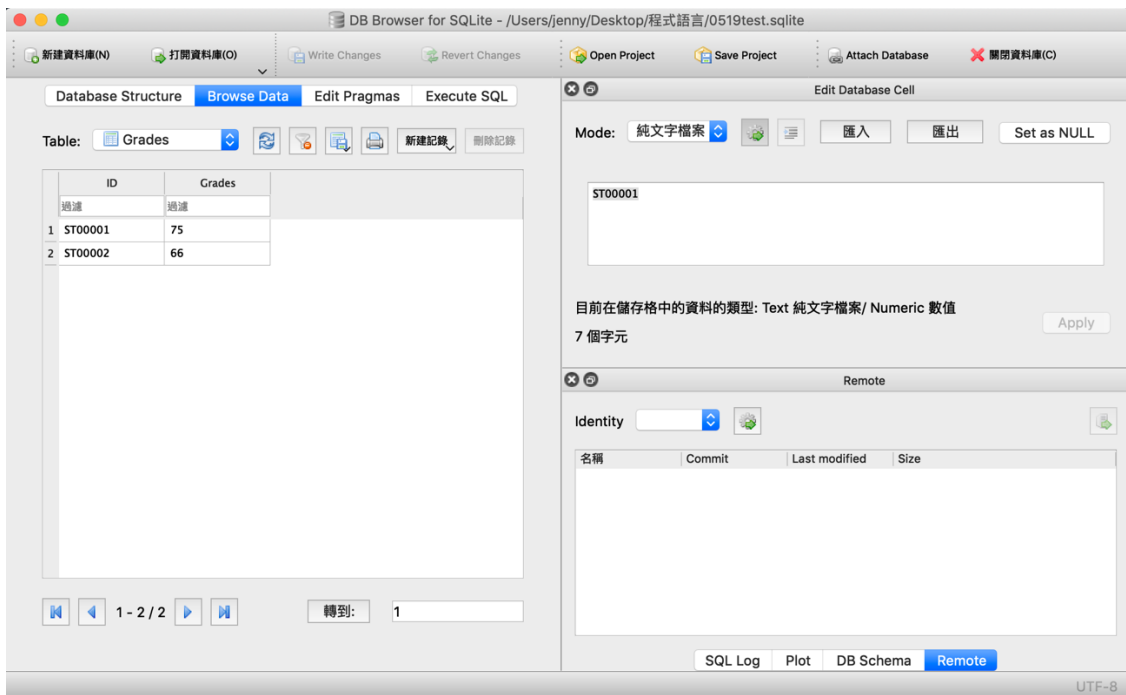
```
#Task1
#新增
import sqlite3
conn = sqlite3.connect('0519test.sqlite')
score = input('Enter your scores:')
sqlstr="insert into Grades values('ST00002', '%d' %(score))"
conn.execute(sqlstr)

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



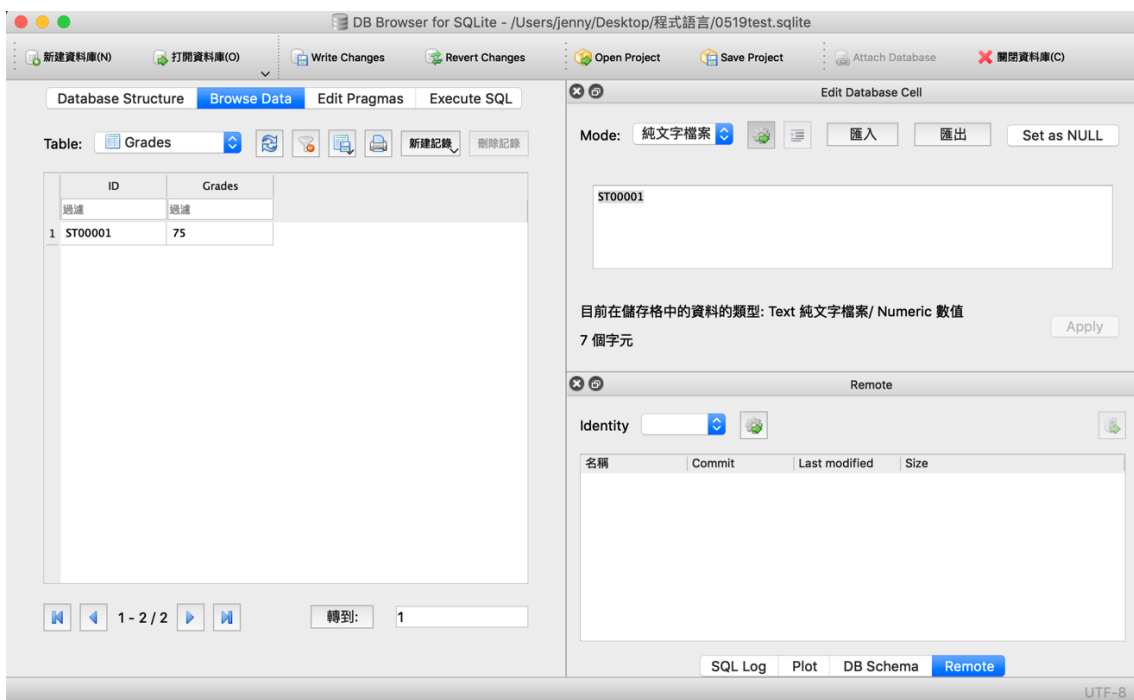
B.修改

```
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.

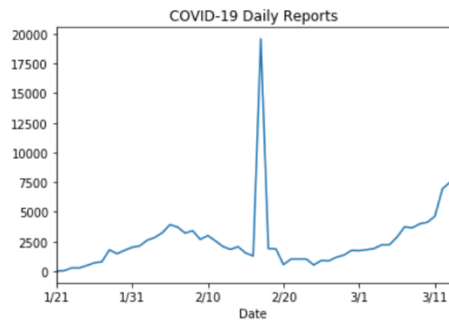
```
In [15]: #Task2 B
import pandas as pd #載入pandas套件並命名為pd
csvdata = pd.read_csv('COVID19_line_list_data.csv') #以read_csv函式讀取csv
print(csvdata[csvdata['statistic'] == 519].groupby(by = 'country')['age'].mean())
```

country	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

Name: age, dtype: float64

### 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()
```

